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Landfill Closure and Post-Closure Care Plan

Manchester Township Landfill
Manchester Township, Ocean County, New Jersey

Prepared for

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1. INTRODUCTION

1.1 Terms of Reference

Geosyntec Consultants, Inc. (Geosyntec) has prepared this Closure and Post-Closure Care Plan (Closure Plan) on behalf of NextGrid Manchester Landfill, LLC of Boston, Massachusetts (Developer). The Closure Plan was prepared in accordance with the New Jersey Department of Environmental Protection (NJDEP) regulations for sanitary landfills promulgated by New Jersey Administrative Code (NJAC) 7:26-2A.9 (solid waste regulations) and described in the *Technical Manual for Sanitary Landfill Permits and Approvals*, prepared by the Bureau of Landfill and Recycling Management-Division of Solid and Hazardous Waste, dated March 1999 (1999 Technical Manual). A summary of the requirements of the solid waste regulations and the respective sections where each of the requirements is addressed in this Closure Plan is presented in Table 1. Where applicable, Table 1 also refers to the checklist item number used in the 1999 Technical Manual.

This Closure Plan describes the proposed closure of the Manchester Township Landfill, which will support the subsequent installation of a solar energy system on the closed landfill by the Developer.

1.2 Site and Project Description

The Manchester Township Landfill (landfill) occupies approximately 30 acres within Block 116, Lot 13 in Manchester, Ocean County, New Jersey (Figure 1). The property and the landfill are owned by Manchester Township. The landfill is surrounded by generally undeveloped forest, with New Jersey State Route 70 approximately 300 feet to the south and a residential property approximately 350 feet to the east.

Geosyntec (2023) presented a hydrogeologic framework update (Final Hydrogeologic Investigation Report) (Attachment A) of the landfill pursuant to a request from the New Jersey Pinelands Commission regarding compliance of the proposed closure with the Pinelands Comprehensive Management Plan (CMP). The Final Hydrogeologic Investigation Report summarizes the field investigation procedures and results for evaluating the groundwater elevation, groundwater analytical testing, and surface water evaluation and presents conclusions regarding impacts to groundwater to support the proposed use of a permeable cover system to close the landfill. Based on the information in that report, this Closure Plan proposes a soil cap to close the landfill.

The Developer has executed a lease agreement with Manchester Township to close the landfill and develop a solar energy system on the landfill. This Closure Plan has been prepared to include the construction and maintenance of a final cover system and associated systems and installation of solar energy systems on the final cover system.

Manchester Township has proposed the existing composting operation, public recycling facility, and deicing material storage structure (i.e., the salt shed) remain during or be returned to the landfill following closure as permanent post-closure uses. Based on pre-submission

communications with NJDEP Division of Sustainable Waste Management (DSWM), the proposed post-closure uses are acceptable if the final cover system is designed and maintained to accommodate such uses, as discussed in Section 2.1.

As shown on the *Manchester Township Landfill Closure Drawings*, dated December 2025 (Drawings) (Attachment B) and described in the Specifications (Attachment C), closure includes re-grading of the landfill, relocation of wastes within the landfill during re-grading, relocation of the existing salt storage shed, and installation of a permeable final cover system. The limit of closure shown on the Drawings was based on the results of a field investigation completed by Maser Consulting, P.A. (Maser) and presented in a January 2020 letter report (Landfill Delineation Report, Maser, 2020a) (Attachment D).

1.3 Solid Waste Facility Permit Application

A Solid Waste Facility Permit Application has been prepared for the proposed closure. The application will be submitted to NJDEP under separate cover.

1.4 Soil Erosion and Sediment Control Plan

A Soil Erosion and Sedimentation Control (SESC) Plan has been prepared for the closure construction in accordance with the requirements of The Standards for Soil Erosion and Sediment Control in New Jersey (7th Edition, January 2014, Revised July 2017) and Ocean County Soil Conservation District (SCD) (Drawings 11, 12, and 13 of Attachment B).The SESC Plan and supporting documentation will be submitted to the Ocean County SCD prior to or concurrent with the submittal of this Closure Plan to NJDEP.

1.5 Health and Safety Plan

The Developer will contract a qualified contractor to perform the closure construction. As part of the pre-construction and mobilization phase of the closure construction, the contractor will be required to submit a site-specific health and safety plan (HASP) that addresses the major components of the work and the associated hazards. A summary of the minimum requirements for a HASP appropriate for the work is included in Specification Section 01 35 29.13 (Attachment C).

1.6 Policies and Technical Guidance for Landfill Disruption Activities

The following discussion is included with this Closure Plan in accordance with the Policies and Technical Guidance for landfill disruptions in Section 9, Paragraph IV of the 1999 Technical Manual.

Many of the eighteen guidelines in Section 9, Paragraph IV of the 1999 Technical manual are implicitly addressed by the discussion of the closure and post-closure care requirements presented in this Closure Plan. Specifically, application forms, topographic map, extent of operations, purpose of disruption, elevation drawings, cover, removal of waste, SESC Plan, control of water, leachate controls, odor, gas, vectors, dust, and litter, HASP, discovery of unclassified or hazardous waste, soil borings, certification by a Professional Engineer, and schedule of activities are

addressed in the various sections of this Closure Plan. The remaining guidelines, are addressed as follows:

- Pre-Application Meeting: Geosyntec and a representative of the Developer participated in a pre-application meeting on behalf of the Developer on 13 October 2022. Ross Hull of the DSWM attended the pre-application meeting.
- Property Deed: The landfill property is owned and operated by Manchester Township (Attachment E.1). The Township and NextGrid have executed a lease agreement to allow NextGrid to close the landfill and construct a solar energy system on the landfill (Attachment E.2).
- Utility Lines: No underground utility lines within the limits of the landfill are proposed as part of the closure and solar development.
- Departmental Permits: The permits and approvals anticipated for this work are listed on the Solid Waste Facility Application Form to be submitted to NJDEP under separate cover.

2. CLOSURE PLAN AND POST-CLOSURE CARE PLAN

Narrative descriptions of the construction and maintenance of the proposed final cover system pursuant to the requirements presented in the 1999 Technical Manual and solid waste regulations of NJAC 7:26-2A.9 are presented in the following sections. The material and execution requirements for the landfill closure construction are provided in the Landfill Closure Drawings (Attachment B) and Construction Specifications (Attachment C).

The components of the proposed solar energy system to be constructed on the final cover system, as they are relevant to the performance and integrity of the final cover system, are described in Section 3. A brief discussion of the operations and maintenance of the solar energy system is also included in Section 3.

2.1 Final Cover System [NJAC 7:26-2A9 (e)(4)(ii)]

NJAC 7:26-2A9 (e)(4)(ii) describes the requirements for the design and construction of landfill final cover systems and refers to specific requirements of NJAC 7:26-2A7(i). These requirements are addressed in the following sections.

The proposed final cover system will be an alternative to the cover system prescribed in NJAC 7:26. The proposed cover system is a permeable soil cover based on, in part, the Final Hydrogeologic Investigation Report (Geosyntec, 2023) (Attachment A) described in Section 1.2. To accommodate the future solar energy system and the post-closure landfill uses proposed by Manchester Township, there will be multiple final cover systems, as follows:

- Type I Cover System: The Type I Cover System will be the standard cover system used in areas without a proposed post-closure use (including the restored existing salt shed area), and in areas in which the future solar energy system will be constructed. The Type I Cover System will comprise an 18-inch soil infiltration layer and a 6-inch topsoil layer to support vegetation.
- Type II Cover System: The Type II Cover System will be used in the composting area. The Type II Cover System will comprise a 24-inch soil infiltration layer and a 12-inch aggregate surface layer.
- Salt Shed Area Cover System: The cover system in the relocated salt shed area will comprise a 24-inch soil infiltration layer and a 12-inch Crushed Stone layer to facilitate integration of the induced draft gas vents (see Section 2.1.12) and subsequent installation of asphalt pavement.
- Public Recycling Area: The Public Recycling Area will include structural fill layer and a 12-inch aggregate surface layer; the Public Recycling Area will be approximately six feet above the adjacent Type II Cover System and will be retained with concrete bin blocks.
- Landfill Entrance: A specific cover system will not be installed in the Landfill Entrance. The Landfill Entrance will remain as is with existing asphalt pavement.

The final cover system will be constructed on a prepared subgrade surface comprising compacted soil or waste to provide a firm surface on which the final cover system will be placed.

2.1.1 Minimization of Long-Term Infiltration [NJAC 7:26-2A7(i)(1)]

Per NJAC 7:26-2A7(i)(1), the proposed final cover system will be constructed to minimize, to the extent feasible for a permeable soil cover system, long-term infiltration and percolation of liquid into the landfill throughout the closure and post-closure periods. The closure is designed to minimize infiltration by efficiently shedding stormwater to the surface drainage system and promoting vegetation growth to facilitate evapotranspiration.

Final cover system slopes, the surface drainage system, and vegetation, are described in Sections 2.1.5, 2.1.6, and 2.1.11, respectively, of this Closure Plan.

2.1.2 Minimum 2 Feet of Cover [NJAC 7:26-2A7(i)(2)]

The requirements of NJAC 7:26-2A7(i)(2) apply only to Class II and Class III landfills. As the Manchester Township Landfill is a Class I landfill, this requirement is not applicable.

2.1.3 Permeability of Final Cover [NJAC 7:26-2A7(i)(3)]

The Manchester Township Landfill is unlined and, as described in Section 1.2 and 2.1, based on the site-specific Final Hydrogeologic Investigation Report (Geosyntec, 2023), a permeable cover system is proposed. Therefore, the permeability criterion of this requirement is not applicable.

However, consistent with the other criteria of this requirement, the final cover system will comprise an 18-inch protective cover layer and a 6-inch topsoil layer, which will be vegetated to minimize erosion of the final cover system.

The final cover system will be constructed and maintained to the lateral limits of waste and, therefore, completely isolate the underlying waste from direct exposure to the surrounding environment.

2.1.4 Slope Stability [NJAC 7:26-2A7(i)(4)]

The cover system will be constructed to maintain stability and integrity throughout the closure and post-closure periods under static and seismic conditions, in accordance with NJAC 7:26-2A7(i)(4), including when subjected to the loads imparted by the future solar energy system. Global stability of the post-closure conditions was evaluated under static and seismic loading conditions and met the required factors of safety in NJAC 7:26-2A7(b)(3i) (Attachment F.1), including under the potential load of the future solar energy system. The stability of the bin block wall component of the recycling area was also evaluated. As requested by NJDEP during a pre-submittal review of the closure design the stability of the bin block wall for was evaluated relative to the Uniform Construction Code (UCC). Based on the site location, the retaining wall is classified as Seismic Design Category A. Further, Section 1807.2.2 of the UCC defines the following criteria for lateral soil loads relative to the Seismic Design Category (A through F). Becasue the retaining wall is classified as Seismic Design Category A, there is no requirement to evaluate additional seismic lateral earth pressure for the bin block wall in accordance with Section 1807.2. Nonetheless, a

review of applicable design criteria was performed under the UCC and the factors of safety (FS) for the bin block wall was found to be above 1.1 as recommended by NJDEP. Therefore, no changes to the analysis are necessary at this time.

Because the final cover system is permeable soil cover and has maximum slopes of 3 horizontal to 1 vertical (3H:1V), veneer stability of the cover system is not a critical failure mechanism and therefore was not analyzed.

2.1.5 Slope Grades [NJAC 7:26-2A7(i)(5)]

As shown on the Landfill Closure Drawings (Attachment B), to support the proposed post-closure use as a solar energy development, the final cover system will generally comprise slopes of approximately 3 to 4 percent, with the exception of limited areas at the landfill perimeter and around the paved landfill entrance and Salt Shed Area, where slopes will be as steep as 3H:1V to facilitate tying the landfill final grades into the surrounding topography.

As communicated with representatives of the DSWM prior to preparation of this closure plan, the closure subgrades are to be established using material already placed in the landfill. Limited material is available on-site for regrading to meet the slope requirements of NJAC 7:26-2A7(i)(5). Nonetheless, settlement analysis of the proposed slopes (Attachment F.2) indicates that the minimum post-settlement slope along drainage paths is expected to be greater than one percent along some slope segments, including under the load of the solar energy system. While this slope is less than the minimum prescribed by the solid waste regulations, the landfill is expected to maintain positive stormwater drainage to the surface drainage system, though some additional maintenance may be required to do so.

2.1.6 Surface Drainage System [NJAC 7:26-2A7(i)(6)]

As shown on Drawing 4 of the Closure Drawings (Attachment B), stormwater runoff is managed by stormwater diversion berms located near the perimeter of the landfill and adjacent to key infrastructure. These diversion berms convey runoff into the stormwater management basins that are outside the limits of the landfill to minimize infiltration through the cover system. The stormwater runoff is retained onsite through a series of six infiltration basins located outside the limit of the landfill. All the proposed infiltration basin systems include a sediment forebay and four of the six systems include a bioretention basin.

Stormwater best management practices were designed to control runoff from the projected 100-year, 24-hour storm event, as shown in the stormwater calculations (Attachment F.3).

2.1.7 Initial Settlement [NJAC 7:26-2A7(i)(7)]

In accordance with NJAC 7:26-2A7(i)(7), the final cover system will be constructed to maintain the integrity of the cover system throughout the closure and post-closure period, even after settlement has occurred (Attachment F.2). Settlement analysis indicates that differential settlement will be minimal and within the tolerance of a permeable soil cover, including under the load of the solar energy system.

2.1.8 Grading and Stability of Final Waste Lifts [NJAC 7:26-2A7(i)(8) and (9)]

The proposed closure will require the excavation and relocation of approximately 110,000 cubic yards of waste and existing cover soils to achieve the design grades. If additional waste is identified outside the proposed limit of the final cover system (e.g., in stormwater infiltration basins) the waste will be excavated and relocated to within the landfill closure limit and placed beneath the final cover system. The extent of waste removal from such areas will be based on visual observation. Where total removal of the waste outside of the landfill footprint is not practical, in conference with NJDEP, waste will be over excavated and removed to allow for the construction of a minimum of 2 feet of clean soil cover, with deeper waste remaining in place. Asphalt millings encountered in stockpiles on the landfill or generated by the removal of paved areas will be transported off-site for management at a licensed Class B recycling facility.

Excavated waste will be redeposited within the landfill footprint. In accordance with NJAC 7:26-2A7(i)(8), regraded waste will be placed and compacted in controlled lift thicknesses and proof-rolled prior to placing final cover material to provide a sufficiently planar and firm subgrade. Subgrade established by excavating in undisturbed waste will be proof-rolled to demonstrate stability and provide a planar and firm base for final cover system.

To the extent practical, the area of excavation resulting in exposed waste will be limited for the types and number of excavation and hauling equipment used. Based on the age of the waste, odors and vectors (e.g., vermin) and blown litter are not expected to be a concern. Further, based on the location of the landfill and age and composition of the waste (i.e., inert household refuse), the uncovered waste is not expected to create an environmental or public health nuisance or a safety hazard. However, to control the potential for odors, vectors, and litter and minimize the potential for environmental or public health nuisance or a safety hazard posed by exposed waste, existing cover soils will be stripped and stockpiled prior to waste disturbance in a particular area for use as daily cover during waste relocation in that area.

General criteria for the relocation and compaction of waste, handling, and assessment of unclassified or potentially hazardous waste, application of daily cover, and measures to control odors, vectors, and blown litter are included in the Specifications (Attachment C). Specific means and methods for addressing those criteria will be described in a contractor waste excavation and relocation plan to be prepared during the pre-construction phase and provided to DSWM at that time for review.

If field observations indicate that additional physical or chemical stabilization is necessary to provide a suitable subgrade for final cover construction, the Engineer will provide a recommendation at that time in accordance with NJAC 7:26-2A7(i)(9) to provide a sufficiently planar and firm subgrade.

Further, during the excavation and relocation of waste, dust controls will be implemented regularly, as needed based on site conditions, and stormwater controls will be implemented to minimize run-on to and run-off from exposed waste. General criteria for the management of water and liquids in contact with waste (leachate) are included in the Landfill Closure Specifications

(Attachment C). Specific means and methods to manage leachate will be described in a contractor waste excavation and relocation workplan to be prepared during the pre-construction phase and provided to DSWM at that time for review.

2.1.9 Impermeable Layer [NJAC 7:26-2A7(i)(10)]

As the approved cover system is a permeable soil cover, the requirements of this section are not applicable.

2.1.10 Drainage Layer [NJAC 7:26-2A7(i)(11)]

The final cover system does not include a drainage layer. Because the final cover is a permeable soil cover, the lateral drainage provided by a drainage layer is not necessary to maintain the integrity of the final cover system. As such, the requirements of NJAC 7:26-2A7(i)(11) are not applicable.

2.1.11 Vegetative Layer [7:26-2A7(i)(12)]

In areas where the cover system will be vegetated (i.e., the Type I Cover System), the vegetative (or topsoil) layer will be six inches thick, as shown on Detail 1 on Drawing 7 of the Drawings, which is suitable thickness for the native grass mix to be used to vegetate the final cover system. Permanent vegetation will be seeded, fertilized, and mulched in accordance with New Jersey erosion and sediment control standards for permanent vegetation. Specific topsoil material properties are described in the Landfill Closure Specifications (Appendix F).

2.1.12 Gas Venting Layer [NJAC 7:26-2A7(i)(13)]

In accordance with NJAC 7:26-2A7(i)(13), the final closure will be constructed to prevent and control the migration of landfill gases off-site. The results of a pre-design landfill gas survey performed by Maser in August and September 2020 (Figure 5 of Attachment D) indicate that concentrations of methane at the perimeter of the landfill generally range from 0.0 percent to 2.8 percent with a maximum concentration of 13.3 percent at boring SB04. Methane concentrations inside the landfill near the perimeter are as high as 14.9 percent at boring SB06.

Based on these results, a gas venting system comprising a combination of passive and induced draft landfill gas vents will be constructed during the landfill closure (Drawing 4 of Attachment B). Passive and induced gas vents will be installed along the perimeter of the cover system to mitigate horizontal migration of landfill gas. Most methane concentrations are below approximately 25 percent of the lower explosive limit (LEL) for methane. Near these locations, passive vents will be installed at a maximum 300 ft spacing. Near perimeter survey locations where the methane concentration was measured above 25 percent of the LEL (SB04, SB06, and SB15) induced draft gas vents will be installed at a maximum spacing of 100 feet. Additional induced draft gas vents will be installed along the perimeter of the new salt shed area to mitigate methane concentration above 25 percent of the LEL in that area.

The passive and induced draft gas vents will be constructed of vertical slotted or perforated polyvinyl chloride (PVC) pipe and clean aggregate to allow gas migrating horizontally in the waste

to be vented to the atmosphere. The vents will fully penetrate the unsaturated waste to the bottom of waste or to the groundwater table, whichever is shallower. Induced draft vents will be constructed similar to the passive vents, but with a turbine ventilator fitted to the top of the vent to facilitate additional venting. If observations during the post-closure period indicate that the system of passive vents is not adequate to control landfill gas migration, additional measures will be implemented.

Following closure, methane gas surveys will be performed in accordance with NJAC 7:26-2A8(h)(9). Surveys will be performed quarterly around the perimeter of the landfill buffer (i.e., 50 feet from the landfill boundary) at survey locations spaced at a maximum of 300 feet. Additional locations will be surveyed around the salt shed. These locations will be spaced at 50 feet or, at a minimum, one location each side of the structure, whichever is more frequent.

Surveys will include the collection of methane concentration from 3 feet below ground, in accordance with NJAC 7:26-2A8(h)(9). If the surveys indicate no methane gas at the landfill buffer perimeter, the Developer or Township will coordinate with DSWM to reduce the sampling frequency and/or increase sample spacing.

2.1.13 HELP Model [NJAC 7:26-2A7(i)(14)]

As the landfill is unlined and a permeable cover system has been approved by the Pinelands Commission, the requirements of NJAC 7:26-2A7(i)(14) are not applicable.

2.2 Final Cover Vegetation and Maintenance [NJAC 7:26-2A9 (e)(4)(iii), (iv), and (v)]

Following the placement of cover soil to its design thickness in areas that are not to be disturbed prior to installation of the solar energy system, the cover system will be stabilized using a temporary seed mixture to be selected for the appropriate season for Table 7-2 of the Standards for Soil Erosion and Sediment Control in New Jersey (NJ Department of Agriculture, 2017) (SESC Manual). Temporary seeding, fertilizing, and mulching will be performed in accordance with the SESC Manual. If the cover system is placed during a season or under conditions that will not allow for vegetation to be established (e.g., the winter), temporary stabilization may be established by mulching only in accordance with the SESC Manual.

Upon completion of the solar energy system installation, disturbed areas of the final cover system will be re-vegetated with a native grass mix appropriate for the soil and climate conditions expected at the landfill (e.g., Warm Season Seed Mixture 3 of the SESC Manual). The seed mixture will be applied at the rate specified by the manufacturer and will be applied either by hydro-seeding or with a mechanical spreader. Following seeding, the area will be lightly raked or pressed with a seed roller to ensure proper soil-seed contact. The seeding area will then be fertilized per the manufacturers specifications and/or agricultural soil suitability test(s) and mulched with a biodegradable straw or erosion control mat, where necessary, to conserve moisture and prevent erosion while vegetative cover is becoming established. Watering during establishment of

vegetative cover will be conducted based on weather conditions and per seed supplier recommendations.

Vegetation will be inspected quarterly to identify areas of erosion, gaps/cracks, or slope movement. Repair of erosion rills and other maintenance to the slopes will be performed as necessary to ensure stable slopes. If sparse vegetation or erosion is observed during the inspection, the cover system will be repaired as soon as feasible in accordance with the design specifications. Because there is no geomembrane or specific drainage layer component of the cover system, vegetation will not be limited to any specific height, nor will the vegetation require any specific mowing schedule, other than as needed to maintain adequate performance of the solar energy system (i.e., to prevent shading of the solar panels) and control woody vegetation. Mowing is expected to occur between one and three times per year. Because woody vegetation has the potential to create preferential flow paths for water through the cover system, inspections will document woody vegetation and it will be addressed as soon as feasible by removing the vegetation by hand or mowing.

2.3 Run-on and Run-off Control Program and Maintenance [NJAC 7:26-2A9 (e)(4)(vi) and (vii)]

As discussed in Section 2.1.6 of this report, stormwater runoff is managed by infiltration basins, sediment forebays, and bioretention basins outside the perimeter of the landfill. The infiltration features are designed to retain and infiltrate most of the stormwater runoff from the projected 100-year, 24-hour event. Attachment F.3 includes the Operation and Maintenance Plan for the proposed Site stormwater management system.

Maintenance requirements for the infiltration features are summarized in the *New Jersey Stormwater Best Practices Manual Chapter 10.2: Infiltration Basins* (NJDEP, March 2021). Maintenance is essential to the operation of the BMPs and should be conducted in a timely manner. The structural components should be inspected quarterly, and components expected to receive debris (e.g., sediment forebays) should be inspected for clogging quarterly as well as after every storm exceeding 1 inch of rainfall. Furthermore, sediment removal should be conducted only when all runoff has drained from the infiltration features and the basin is dry. Maintenance will be performed by Manchester Township and costs for this maintenance will be added to the municipal budget by resolution.

Note that there is no potential for run-on as the landfill topography is higher than the perimeter of the Site.

2.4 Groundwater Monitoring [NJAC 7:26-2A9 (e)(4)(viii), (ix), and (x)]

A network of monitoring wells has previously been established to monitor groundwater in the vicinity of the landfill. The wells will remain in place during and following landfill closure and solar energy system construction. Provisions for raising, lowering, or otherwise modifying the wells in accordance with NJDEP requirements will be included in construction documents prepared prior to landfill closure construction.

2.5 Landfill Gas Venting System and Maintenance [NJAC 7:26-2A9 (e)(4)(xi) and (xii)]

As described in Section 2.1, the closure design includes a passive landfill gas venting system. Maintenance of the system will consist of visual inspection of exposed components during quarterly inspections. If observations during the inspections indicate damage to the landfill gas venting system, the damaged components will be repaired as soon as feasible to restore the components to their original condition.

2.6 Leachate System and Maintenance [NJAC 7:26-2A9 (e)(4)(xiii) and (xiv)]

The landfill is unlined and, therefore, there is no leachate collection and control system. As such, NJAC 7:26-2A9 (e)(4)(xiii) and (xiv) are not applicable.

2.7 Facility Access and Maintenance [NJAC 7:26-2A9 (e)(4)(xv) and (xvi)]

The landfill is accessed via Sam Pitts Road from a single entrance along at John Davison Rockefeller Memorial Highway (State Route 70), which is secured when the landfill is closed by a double-swing pasture gate. A security fence will be installed around the perimeter of the solar energy facility to restrict unauthorized access to those areas.

The existing access roads, including Sam Pitts Road, will generally be re-constructed at final landfill closure grades generally along the same alignment as the existing road, though some of the existing side roads will not be returned (Drawing 4 of Attachment B). The proposed access road is shown in a detail on Drawing 7 of Attachment B. Temporary access roads will be constructed as necessary during closure to facilitate installation of the final cover system and other closure components.

The security fence, gates, and access roads will be inspected during the quarterly inspection and repaired or otherwise maintained as necessary. Should maintenance of the final cover system or the access roads themselves require equipment that may affect the integrity of the final cover system, additional measures (e.g., crane mats, additional aggregate, etc.) will be taken to protect the final cover system. The final cover system will be disrupted only with prior approval of the NJDEP and will be restored to pre-disturbance conditions in accordance with the closure design and provisions of the disruption approval.

2.8 Conformance to Surrounding Areas and Maintenance [NJAC 7:26-2A9 (e)(4)(xvii) and (xviii)]

Considering the proposed post-closure use of the landfill (i.e., solar energy system) and the areas surrounding the landfill (i.e., forest) the closure will be constructed to conform to the surrounding areas. Measures to conform to the surrounding areas include vegetating the final cover with native grasses, minimizing mowing of the final cover vegetation, controlling stormwater and promoting infiltration outside the limits of waste, and minimizing disruption of undisturbed areas outside the landfill perimeter.

During the inspection of the final cover system, particular attention will be paid to stormwater discharge locations and proposed final cover system vegetation to ensure the closure continues to conform to and integrate with the surrounding areas. Where the inspections indicate that a repair is necessary, such repairs will be made as soon as is feasible.

2.9 Material Acceptance Protocol [NJAC 7:26-2A9 (e)(4)(xx)]

A material acceptance protocol (MAP) describing the physical properties, testing, and use of imported surface and subgrade materials is presented in Attachment G.

3. SOLAR ENERGY SYSTEM

The final component of the landfill closure is the construction of a solar energy system on the east and central portions of the landfill cover system. Narrative descriptions of the installation and maintenance of the proposed solar energy system are presented in the following sections.

3.1.1 Description of the Solar Energy System

The proposed 4.7 mega-watt (MW) direct current (3.2 MW alternating current) solar energy system will be installed entirely on the nominal 3 percent slopes of the proposed final cover system and will occupy approximately up to 20 acres of the 30-acre cover system, as shown on Drawing 3 of the Permit Drawings (Attachment B). The solar facility will comprise of Heliene 144HC M10 SL BIFACIAL 530W PV PANELS and Solectria XGI inverters, as shown on the solar facility structural drawings (Attachment H). The solar facility will be secured by a secondary perimeter fence to control access from publicly accessible areas (i.e., the composting operation and recycling facility). The solar array layout has been designed to allow for post-closure operations and maintenance of the landfill and final cover system.

The solar energy system will be installed on concrete ballast blocks placed on top of the final cover system to distribute the load of the solar panel racks. The actual size of the ballast blocks has not yet been determined. However, the final sizing will consider the geotechnical properties of the subgrade and the size will be such that the loads do not damage the final cover system. The ballast blocks will not penetrate the cover system. Ancillary equipment such as transformers and conduit runs will also be mounted atop the final cover system in a manner that does not affect the integrity of the final cover system. Where required, utility poles to facilitate overhead power transmission lines may be installed within the landfill. As described in previous sections relative to the existing utility poles, the presence of the pole will not impact the performance of the permeable final cover system.

3.1.2 Solar Energy System Installation

The ballast blocks and solar panels will be installed using low-ground pressure equipment and vehicles to the extent feasible to minimize impacts to the final cover system. Where necessary to accommodate higher ground pressures, the final cover system will be protected using a combination of geotextile cushion/separator, clean fill layers (e.g., additional thickness of the protective cover), crane mats, etc.

The final cover system will be inspected on a regular basis during the solar energy system installation and following the completion of work in each area. Where the inspection indicates damage, appropriate repairs will be made in accordance with the specifications for the initial cover system installation. All repairs will be documented for inclusion in the final cover system record drawings.

3.1.3 Solar Energy System Operations and Maintenance

The solar energy system will be inspected and maintained by the Developer while the solar energy system is being operated. This work will be performed the Developer's representatives or their approved subcontractors or authorized vendor (i.e., manufacturer of components used in the solar energy system) representatives. The area where the solar energy system is located and the immediate proximity of the electrical equipment will be accessible only by authorized personnel. Operations and maintenance of the final cover system will be performed as described in the previous sections of this Closure Plan.

Maintenance of the landfill final cover system and all associated control systems (i.e., stormwater drainage system, landfill gas venting system, etc.) regardless location inside or outside the solar energy system area will remain the responsibility of Manchester Township. At the end of the operation period, the solar energy system and associated equipment will be removed from the landfill and any necessary repairs to the final cover system will be made to return the cover system to its initial condition. At such a time, the Manchester Township will accept responsibility for operations and maintenance of the entire landfill.

4. SCHEDULE

In accordance with NJAC 7:26-2A9 (e)(5), a schedule of contractor procurement and construction activities related to final closure is included in Attachment I.

5. CLOSURE AND POST-CLOSURE FINANCIAL PLAN

In accordance with NJAC 7:26-2A9 (f), the following information is included with this closure plan regarding financial planning of the proposed landfill closure:

5.1.1 Closure Funding

The closure will be funded by the Developer. With the revenues to be received from the sale of electricity generated by the solar energy system, the Developer is able to raise financing to pay for the landfill closure.

The cost estimate to implement this closure plan is $5,601,215. This estimate has been prepared by Developer with support from contractors. A detailed summary and supporting documentation is provided in Financial Schedule "A" (Attachment J).

5.1.2 Post-Closure Funding

Post-closure activities will be the responsibility of Berkeley Township and costs for post-closure activities will be added to the municipal annual budget. A budget of $86,00 has been added to the 2026 municipal budget in accordance with Financial Schedule "B" (Attachment J) and will be updated annually. Additionally, Berkeley Township currently performs ground water sampling well maintenance and ground water monitoring and reporting associated with NJPDES Permit No NJ0051896 and this budget amount of $22,000 will be relocated to the 'Landfill Maintenance' line item in the municipal budget

Because Manchester Township is funding the post-closure activities through a budget line item, there will be no escrow account and Financial Schedule "C" is not applicable.

6. CERTIFICATION

A Solid Waste Facility Permit Application form and this Landfill Closure and Post-Closure Care Plan have been prepared in accordance with the NJDEP Solid and Hazardous Waste Management Program Regulations NJAC7:26-2A.9 and the Technical Manual for Sanitary Landfill Permits and Approvals, prepared by the Bureau of Landfill and Recycling Management-Division of Solid and Hazardous Waste, and dated March 1999.

I certify that, to the best of my knowledge, all information contained in this report is accurate and complete.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals under my supervision, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I understand that, in addition to criminal penalties, I may be liable for civil administrative penalty pursuant to NJAC 7:26-5 and that submitting false information may be grounds for denial, revocation or termination of any solid waste facility permit or vehicle registration for which I may be seeking approval or now hold.

Thomas B. Ramsey, P.E.
New Jersey P.E. No. 24GE04505800



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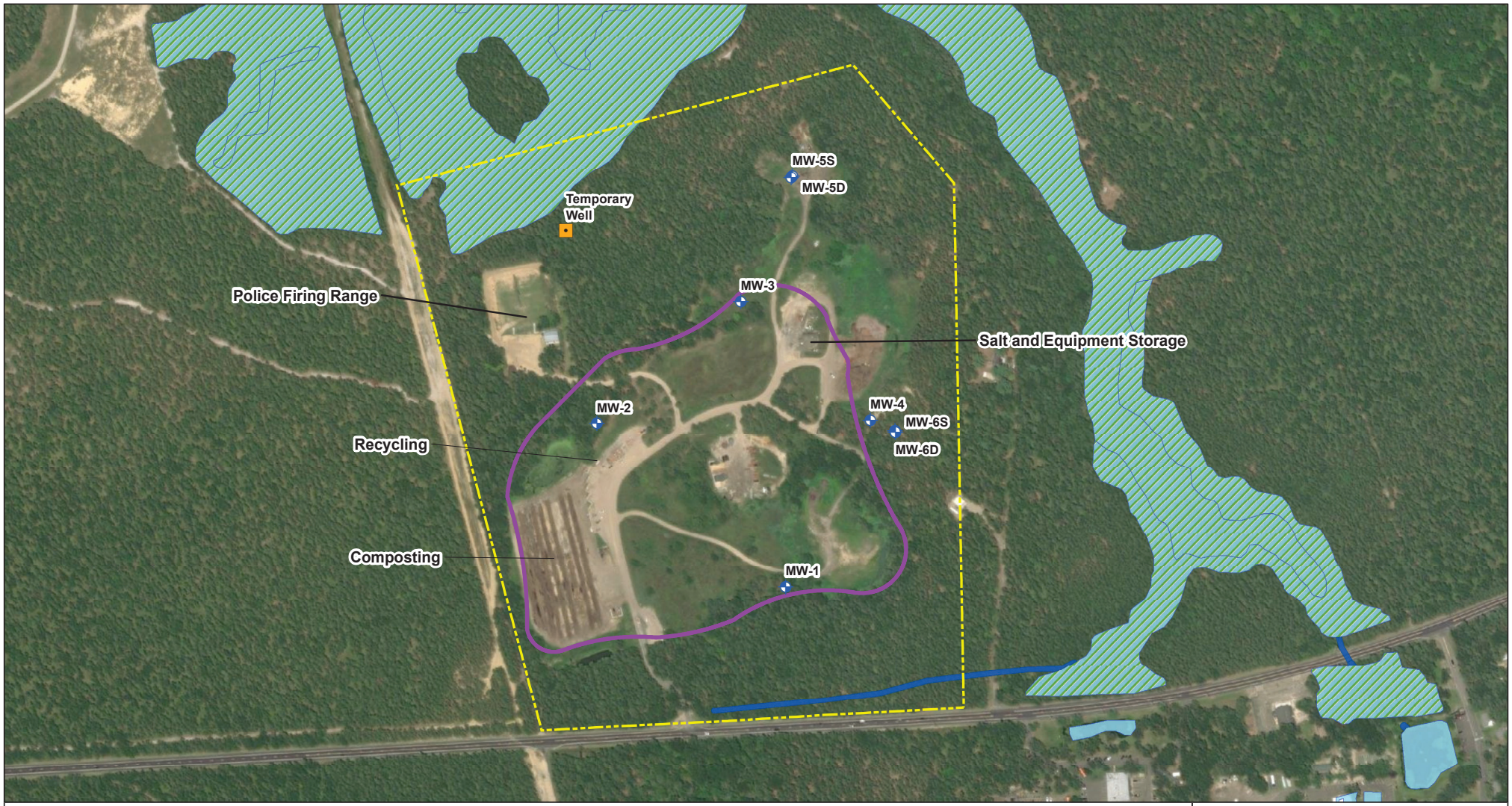
Table

TABLE 1

Closure Plan Requirements and Organization
Manchester Township Landfill, Manchester, New Jersey

1999 Technical Manual Checklist Item Number	NJAC Regulation NJAC 7:26-2A.9	Checklist Item	Applicable Section in this Closure Report
1	2A9 (e)(1)	Solid Waste Facility Permit Application Form	§1.3 – Solid Waste Facility Permit Application
2	2A9 (e)(4)(i)	Soil Erosion and Sediment Control Plan	§1.4 – Soil Erosion and Sediment Control Plan
3	2A9 (e)(4)(ii)	Final Cover	§2.1 – Final Cover System
4	2A9 (e)(4)(iii)	Final Cover Vegetation	§2.2 – Final Cover Vegetation and Maintenance
5	2A9 (e)(4)(iv)	Maintenance of Final Cover and Final Vegetation	§2.2 – Final Cover Vegetation and Maintenance
6	2A9 (e)(4)(v)	Maintenance of Side Slopes	§2.2 – Final Cover Vegetation and Maintenance
7	2A9 (e)(4)(vi)	Run-on/Run-off Control Programs	§2.3 - Run-on and Run-off Control Program and Maintenance
8	2A9 (e)(4)(vii)	Maintenance of Run-on/Run-off Control Program	§2.3 - Run-on and Run-off Control Program and Maintenance
9	2A9 (e)(4)(viii)	Groundwater Monitoring Wells	§2.4 - Groundwater Monitoring
10	2A9 (e)(4)(ix)	Program for Groundwater Monitoring Well Maintenance	§2.4 - Groundwater Monitoring
11	2A9 (e)(4)(x)	Program for Monitoring in Accordance with NJPDES	§2.4 - Groundwater Monitoring
12	2A9 (e)(4)(xi)	Methane Venting or Evacuation System	§2.5 – Landfill Gas Venting System and Maintenance
13	2A9 (e)(4)(xii)	Methane System Maintenance	§2.5 – Landfill Gas Venting System and Maintenance
14	2A9 (e)(4)(xiii)	Leachate Collection and/or Control System	§2.6 – Leachate System and Maintenance
15	2A9 (e)(4)(xiv)	Leachate Collection and/or Control System Operation and Maintenance	§2.6 – Leachate System and Maintenance
16	2A9 (e)(4)(xv)	Installation of Facility Access Control	§2.7 - Facility Access and Maintenance
17	2A9 (e)(4)(xvi)	Maintenance of Facility Access Control	§2.7 - Facility Access and Maintenance
18	2A9 (e)(4)(xvii)	Measures to Conform the Site to Surrounding Area	§2.8 – Conformance to Surrounding Areas and Maintenance
19	2A9 (e)(4)(xviii)	Maintenance of Measures to Conform the Site to Surrounding Area	§2.8 – Conformance to Surrounding Areas and Maintenance
--	2A9 (e)(4)(xx)	Material Acceptance Protocol	§2.9 – Material Acceptance Protocol
20	2A9 (e)(5)	Schedule for Implementation of Closure and Post-Closure Maintenance Activities and Inspections	§4 - Schedule
21	2A9 (f)	Closure and Post-Closure Financial Plan for Post-1982 landfills	§5 – Closure and Post-Closure Financial Plan
22	2A9 (e)(1)	NJ Licensed Professional Engineer to Prepare, Sign, and Seal the Closure Plan	§6 –Certification

Figure



Legend

- Monitoring Well
- Temporary Well (Installed December 12, 2022)
- Site Parcel
- Interpreted Landfill Deposits Boundary
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

Notes:
1. Site Parcel Source: Ocean County, NJ/NJ OpenData
   Interpreted Landfill Deposits Boundary: Maser 2020 Site Hydrogeologic Investigation Report
2. Welands and Water Features: US Fish and Wildlife Service/NWI

N

0 350 Feet

Site Map

Manchester Township Landfill
110 Sam Pitts Road
Manchester Township, New Jersey

Geosyntec consultants

Pennington, NJ | February 2023

Figure 1-1

\\Philly-01\Data\GIS\GISprojects\JR0312 - Manchester Landfill\Projects\Site_Map.mxd 1/31/2023 9:09:22 PM

Attachment A

Geosyntec consultants

engineers | scientists | innovators

FINAL HYDROGEOLOGIC INVESTIGATION REPORT

MANCHESTER LANDFILL

MANCHESTER TOWNSHIP, NEW JERSEY

Program Interest Number 132555

Prepared for

NextGrid Inc.

Prepared by

Geosyntec Consultants, Inc.
1750 American Boulevard, Suite 200
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Project Number JR0312

February 2023

Geosyntec consultants

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Appendix H	Results of Well Search

ATTACHMENT

Attachment A	Laboratory Data Reports

EXECUTIVE SUMMARY

Geosyntec Consultants, Inc. conducted a hydrogeologic investigation of the Manchester Landfill in Manchester, New Jersey (the Site) on behalf of NextGrid, Inc. in support of plans to construct a solar power facility at the Site. The Site is approximately 99 acres, and the landfill occupies approximately 30 acres of the Site. The landfill is no longer in use, but the Site is used for other municipal activities including a police shooting range, recycling, and storage of salt and equipment.

The purpose of the investigation was to complete the characterization of potential impacts to groundwater to support plans for landfill capping and closure. A previous investigation had been conducted by Maser Consultants, Inc. in 2020 and included collecting and analyzing groundwater samples from four monitoring wells. The current investigation included installing four additional monitoring wells and collecting groundwater samples from the new and existing monitoring wells. The work was coordinated with the Pinelands Commission (PC).

Well installation was conducted in September 2021. Depth to water measurements and groundwater sampling were conducted in October 2021. The groundwater samples were analyzed for 1,4-dioxane, Target Compound List semi-volatile organic compounds (SVOCs), Target Analyte List metals, and landfill leachate parameters. Samples from the new wells (MW-5S, MW-5D, MW-6S, and MW-6D) were analyzed for perfluoroalkyl and polyfluoroalkyl substances (PFAS). Samples from wells MW-6S and MW-6D were analyzed for endocrine disruptor compounds (EDCs). A report describing the results of that sampling was submitted to the PC in December 2021. PC reviewed the report and requested certain revisions and additions. A revised report was submitted to PC in June 2022.

After reviewing the June 2022 report, PC required installation and sampling of a temporary well to evaluate groundwater quality near a former septic waste discharge area. That well was installed and sampled in December 2022, and the results of the sampling are included in this report.

Although the bottom of the landfill is near the water table, there is evidence of minor impacts to groundwater but the impacts do not disqualify the use of a permeable cap. A slight landfill signature in groundwater is evidenced by low concentrations of ammonia and nitrate; however, a comparison of groundwater data to ecological screening benchmarks (ecotoxicity assessment) determined that concentrations are too low to adversely affect receptors (discussed in detail in Section 3.4). Elevated sodium

concentrations are present at well MW-5S downgradient of the landfill, but this appears to be related to ongoing salt storage operations at the landfill, not to the landfill itself. Pursuant to New Jersey Administrative Code 7:50-6.75(c)4, an impermeable cap is not required under these circumstances.

1. INTRODUCTION

This Hydrogeologic Investigation Report presents results of a hydrogeologic investigation at the former Manchester Township municipal landfill (the Site). This work has been conducted on behalf of NextGrid, Inc. (NextGrid) in support of plans to construct a solar power facility at the Site.

An initial hydrogeologic investigation was conducted by Maser Consulting, Inc. (Maser, now part of Collier's Engineering) on behalf of Manchester Township as documented in the October 2020 Site Hydrogeologic Investigation Report. The Pinelands Commission (PC) issued comments on the report in an October 29, 2020 letter. Maser subsequently responded in a November 12, 2020 letter.

In its comments, the PC identified several shortcomings in the initial hydrogeologic investigation performed by Maser. While Maser was able to address several of the PC's comments in its response, other PC comments identified data gaps that required additional field investigation activities, which were not performed by Maser prior to Geosyntec's involvement. Geosyntec proposed additional sampling to address these deficiencies in a 14 September 2021 letter to the PC, which was acknowledged by the PC later that day via email; the letter and response are provided in Appendix A.

The results of the additional hydrogeologic investigation were submitted to PC by Geosyntec in December 2021. Upon review of the report, PC required certain revisions to the report text and installation, and a revised report was submitted to PC in June 2022. PC then required the installation and sampling of a temporary well to evaluate groundwater quality near a former septic waste disposal area that was observed in historical documents, as reported by PC. This Final Hydrogeologic Investigation Report includes the results of the temporary well sample.

The Site features are shown in Figure 1-1. According to Maser (2020), the Site consists of approximately 99 acres, of which the landfill occupies slightly less than 30 acres. The landfill is no longer in use for waste disposal. Ongoing operations at the Site include a police firing range (located northwest of the landfill), municipal composting and recycling facilities, and a salt storage dome and other municipal equipment storage. The former septic waste disposal area was located where the police firing range is currently located.

The remainder of this report discusses the field and analytical methods, results, and conclusions of the hydrogeologic investigation.

2. FIELD INVESTIGATION PROCEDURES

2.1 Monitoring Well Installation

Four additional monitoring wells were installed to evaluate on-site groundwater flow conditions and the potential for landfill leachate impacts to groundwater and potential public health and ecological receptors. The well locations were selected based on correspondence with Mr. Ed Wengrowski of the PC and were selected based upon groundwater flow direction information reported to the PC in the 2020 Site Hydrogeological Investigation Report (Maser 2020, Figures 6 and 8). Importantly, the proposed locations of monitoring wells MW-5S and MW-5D were represented as being located upgradient of the landfill and the proposed locations of monitoring wells MW-6S and MW-6D were represented as being downgradient of the landfill, in areas with no fill. The original proposed locations of wells MW-5S and MW-5D were changed in the field due to accessibility issues. Mr. Wengrowski visited the Site during the first day of well installation and took no exception to the relocation of wells MW-5S and MW-5D based upon the representation that the field-adjusted locations of the wells were still located upgradient of the landfill and could be relied upon to characterize background water quality. In fact, these representations later proved to be inaccurate as the elevation data collected in 2021 demonstrated that wells MW-5S and MW-5D are downgradient of the landfill and wells MW-6S and MW-6D are side gradient of the landfill. These results are discussed further in Section 3.2.

Monitoring well installation activities were completed from September 27 to 30, 2021 by TPI Environmental, Inc. Prior to well installation activities, a geophysical survey was conducted by TPI on September 27, 2021 to verify that no underground utilities or subsurface structures were present in the proposed drilling locations.

Prior to drilling and well installation, direct push technology was used to log soils at the MW-5D location. Soil was brought to the surface for logging in 5-foot intervals, and photoionization detector (PID) readings were taken every six inches to the final boring depth of 45 feet below ground surface (bgs). The soil boring log is provided in Appendix B.

To construct the wells, 6-inch diameter hollow stem augers were advanced to the intended depths, 35 feet bgs for MW-5S and MW-6S, and 55 feet bgs for MW-5D and MW-6D. All four wells were constructed with 2-inch diameter, Schedule 40 PVC screen with 0.010-inch slot size and Schedule 40 PVC riser.

Well construction logs are provided in Appendix B. The wells were developed using a Grundfos pump to purge three well volumes and allowed to stabilize over a two-week period before sampling.

The locations and elevations of the new wells were surveyed by a New Jersey-licensed surveyor from DPK Consulting Land Surveyors. Surveyors Form Bs for the new wells are included in Appendix B. The elevations of wells MW-3 and MW-4 were resurveyed due to their use as reference points for the surveying of the new monitoring wells. There was no need to resurvey wells MW-1 and MW-2 at the time of the survey. It was later noted that the datum used for wells MW-1 and MW-2 pre-dates the current datum, and so a calculation was made to update these elevations to the current datum. Therefore, elevations at wells MW-1 and MW-2 are considered estimates.

2.2 Water Level Measurements

Groundwater elevations were collected on October 13, 2021 from the eight Site monitoring wells to identify the potentiometric surface and groundwater flow direction. Groundwater levels were measured using electronic water interface probes.

2.3 Groundwater Sample Collection and Analysis

Groundwater samples were collected from October 13 through October 15, 2021 using low-flow purge and sampling (LFPS) methods from the eight on-site monitoring wells.

For the sample collection, groundwater was purged at a rate less than 0.5 liter per minute (LPM) using a stainless-steel QED Sample Pro bladder pump fitted with dedicated high-density polyethylene (HDPE) tubing and a poly bladder in accordance with the NJDEP low-flow guidance for PFAS sampling (NJDEP 2021). Groundwater field parameters recorded from calibrated water quality meters during purging included temperature, pH, conductivity, dissolved oxygen, ORP, and turbidity. Upon stabilization of the groundwater field parameters, groundwater samples were collected directly from the tubing into laboratory-supplied bottle ware, placed on ice under proper chain-of-custody procedures, and submitted to the analytical laboratory (Alpha Analytical Laboratories [Alpha] of Westborough, Massachusetts, NJDEP Certification number MA935). Low-flow purging and sampling records (purge logs) from groundwater sampling events are included in Appendix C.

The groundwater samples were analyzed for 1,4-dioxane, Target Compound List (TCL) semi-volatile organic compounds (SVOCs), Target Analyte List (TAL) metals, and landfill leachate parameters. In addition, samples from the new wells (MW-5S, MW-5D, MW-6S, and MW-6D) perfluoroalkyl and polyfluoroalkyl substances (PFAS). Samples

from the existing wells (MW-1, MW-2, MW-3, and MW-4) were not analyzed for PFAS because these wells contained Teflon-lined tubing from previous sampling events. Teflon can contribute PFAS to groundwater samples and therefore any detections of PFAS in samples from these wells would not be valid. This was discussed with Mr. Wengrowski during sampling when the Teflon-lined tubing was first observed.

In addition, samples from wells MW-6S and MW-6D were sent to SGS AXYS Analytical Services Limited (AXYS) of Sidney, British Columbia for analysis of endocrine disruptor compounds (EDCs) including bisphenol A and analogs, and estrogen-like compounds. The analytic methods are AXYS' in house methods using liquid chromatography and mass spectrometry verification. Additional information on these methods is provided in AXYS' results report.

2.4 Surface Water Sampling

The proposed scope of work for this investigation included collection and analysis of four surface water samples. Two samples were proposed in a drainage ditch south of the landfill, and two samples were proposed in a wetland area north of the landfill. However, no surface water was present in these areas during the sampling event (October 13 through October 15, 2021). Therefore, no surface water samples were collected.

A second attempt to collect surface water samples was made on November 11, 2022. The entire Site was inspected, but no surface water was present. Therefore, no surface water samples were collected.

2.5 Installation and Sampling of a Temporary Well

PC required the installation and sampling of a temporary monitoring well to evaluate the potential impact of a former septic waste disposal area, which was located where the police firing range is currently located. The temporary well was installed and sampled on December 12, 2022. Its approximate location is shown on Figures 1-1 and 3-1. The location is northeast of the former septic waste disposal area. Based on the groundwater flow direction observed in nearby areas of the landfill (Figure 3-1), and the presence of wetlands further north, this location is expected to be downgradient of the former septic waste disposal area. The temporary well was installed by TPI. Prior to well installation activities, the top 5 feet of the borehole were advanced using a hand auger to reduce the risk to any underground pipes or wires. No underground pipes or wires were observed.

Below 5 feet, direct push technology was used to collect soil and create a 2-inch diameter borehole. Soil was brought to the surface for logging in 5-foot intervals, and PID readings

were taken every six inches to the final boring depth of 12 feet bgs. The soil boring log is provided in Appendix B.

The temporary well was constructed with 1-inch diameter PVC screen with 0.010-inch slot size and PVC riser. The screened interval was 2 to 12 feet bgs. No sand pack or other annular filling was used. The well construction is documented in the soil boring log in Appendix B.

Groundwater samples were collected after purging the temporary well with a peristaltic pump. The only exception to collection via a peristaltic pump was the sample for SVOCs which was collected using a Teflon-lined bailer following the collection of samples for all other analytes. The low-flow purging and sampling record (purge logs) is included in Appendix C. Samples included one parent sample and a duplicate. Geosyntec also prepared an equipment blank by pouring deionized water from the laboratory over the sampling equipment and collecting it in sample bottles. The groundwater samples were analyzed for 1,4-dioxane, TCL SVOCs, TAL metals, PFAS and landfill leachate parameters by Alpha.

After the groundwater samples were collected, the PVC screen and riser pipe were removed from the well, and the well was backfilled with soil cuttings. The ground surface was restored and any remaining soil cuttings were spread.

3. RESULTS

3.1 Soil

Appendix D contains a map showing the soil classifications at the Site. The area of the landfill is classified as Pits, Sand and Gravel (PHG). The remainder of the Site is classified as various sandy soils, including Atsion Sand (AtsAO), Lakehurst Sand (LakB), Lakewood Sand (LasB and LasC), and Woodmansie Sand (WobB). The PHG unit is not rated in regard to suitability for a sanitary landfill, and the other units are rated as "very limited". The depth to water according to the Web Soil Survey is greater than 200 cm in the PHG unit.

Based on the boring drilled at the location of well MW-5D and the temporary well boring (Appendix B), the soil at the Site consists of white and tan fine sand, coarse sand in some intervals, and little silt or clay. This is typical of the Cohansey Formation. Saturated conditions were observed at approximately 25 feet bgs (135 feet above mean sea level [amsl]) in the monitoring wells. Ground surface elevation at well MW-5D is 160 feet amsl. The depth to water at the temporary well was approximately 5.5 feet bgs. This location is in a relatively low area, closer to wetlands than the permanent wells, so a shallow depth to groundwater is expected. No volatile organic compounds (VOCs) were observed by the PID while advancing these borings.

The soil observations are generally consistent with those described previously (Maser 2020).

3.2 Leachate Modeling

Geosyntec prepared a hydrologic model using the USEPA Hydrologic Evaluation of Landfill Performance (HELP) program to evaluate the potential change in subsurface infiltration from the landfill comparing the current cap conditions and the proposed permeable cap closure. Geosyntec used the current HELP model (Version 4.0) for the various simulations.

The following assumptions were used for input parameters and proposed conditions and are included in Appendix E:

- The existing cover conditions included cover of primarily grassy vegetation, with some trees, with an average slope of 1.3 percent. However, based on the existing conditions, which indicate that the interior portion of the landfill does not runoff

to the landfill perimeter, the model was prepared with only 75 percent of the area subject to runoff. The cover soils comprise 6 inches of topsoil and 3.5 feet of sand underlain by an average thickness of 25 feet of municipal solid waste (MSW). The cover soils and waste thicknesses were selected based on results presented in the 2020 Site Hydrogeological Investigation Report (Maser 2020), which reported a minimum cover soil thickness of 4 feet across the landfill. A leaf area index of 3.5 was assigned for a good stand of grass and a 36-inch evaporation zone depth (the maximum recommended by the HELP program) to represent the combination of grassy vegetation and trees. Weather parameters were selected from historical data or synthetically generated within HELP.

- The post-closure scenario included cover of grassy vegetation with an average slope of 2 percent. The cover system will be graded to permit runoff from 100 percent of the landfill area. The cover soils comprise 6 inches of topsoil and 18 inches of sand underlain by an average thickness of 25 feet of MSW. A leaf area index of 2 for fair stand of grass and a 24-inch evaporation zone depth (i.e., the thickness of the proposed cover system). The same weather input parameters used to model the existing conditions were also used to model the post-closure scenario.

For the existing cover conditions, the estimated annual average runoff, evapotranspiration, and percolation through the waste layer as a percent of precipitation are 2.2 percent, 67.3 percent, and 30.4 percent, respectively. For the post-closure scenario, the estimated annual average runoff, evapotranspiration, and percolation through the waste layer as a percent of precipitation are 3.1 percent, 67.8 percent, and 28.9 percent, respectively. In terms of cubic feet of liquid percolating through the waste layer, the post-closure scenario represents a 4.8 percent reduction from the existing conditions.

3.3 Groundwater Elevations, Flow Directions, and Velocity

Depth to water measurements and groundwater elevations are shown in Table 3-1. A groundwater elevation contour map is provided in Figure 3-1. This figure shows the groundwater elevations in the shallow portion of the aquifer, represented by wells MW-1 through MW-4, MW-5S, and MW-6S. The elevations of the measuring points at wells MW-1 and MW-2 were corrected from the 1929 vertical datum (used when the wells were installed in 1985) to the current 1988 vertical datum. Therefore, groundwater elevations at wells MW-1 and MW-2 are approximate. As stated in Section 2.1, since wells MW-1 and MW-2 were not needed as reference points during the surveying of the

new monitoring wells, there was no foreseeable reason to resurvey them during the field event.

The depth to water was 22 to 27 feet below ground surface. Groundwater elevations in the shallow aquifer ranged from 134.60 to 137.83 feet above mean sea level. Appendix F contains cross-sections prepared by Maser (Maser 2020) that show the elevation of the water table below the landfill at approximately 137.5 feet above mean sea level, which is slightly higher than observed during this investigation. Based on the cross-sections, the bottom of the landfill waste is near or slightly below the water table.

Groundwater in the shallow aquifer flows outward from the landfill with a predominant northeast flow component. As shown on Figure 3-1, the groundwater elevation at well MW-3 (on or at the edge of the landfill) is higher than at well MW-5S (nearby MW-3 and off the landfill). Similarly, the groundwater elevation at well MW-4 (on or at the edge of the landfill) is higher than at well MW-6S (nearby MW-4 and off the landfill).

The groundwater flow pattern is similar to the topography: the landfill is generally flat but forms a shallow mound that is 10 feet, or in some areas 20 feet, higher than the surrounding undisturbed ground (see Figure 3 of Appendix A in Maser 2020). Flow is from the landfill outward toward the Old Hurricane Brook which is located east and north of the landfill.

The flow pattern shown on Figure 3-1 is not consistent with the previous data (Maser 2020) which showed shallow groundwater flowing primarily northwest to southeast, with MW-4 the most downgradient well. The differences could be due to the groundwater elevations from the new shallow wells MW-5S and MW-6S (which were not present during the 2020 investigation), or to temporal variations in groundwater flow. Since the flow pattern is different than expected, wells MW-5S and MW-5D serve as downgradient wells rather than upgradient wells as planned. Therefore, the quality of groundwater beneath and downgradient of the landfill cannot be compared to unimpacted upgradient groundwater. To mitigate the lack of an upgradient well and to identify potential impacts to nearby receptors, an ecotoxicity assessment was completed (Appendix G) and is discussed in Section 3.3.

The deeper portion of the aquifer is represented by wells MW-5D and MW-6D, both screened at 45 to 55 feet bgs. While groundwater elevations at two wells are not enough to understand horizontal groundwater flow direction, the flow direction in the deeper portion is likely similar to the shallow portion of the aquifer. At each well pair, there is

a slight downward gradient from the shallow to the deep well (MW-5S to MW-5D, and MW-6S to MW-6D). A downward gradient is typical of groundwater recharge areas.

The horizontal groundwater flow velocity in the shallow aquifer was estimated as shown in the following table.

	Monitoring Wells Used To Estimate Gradient	Change in Water Level (ft)	Distance (ft)	Hydraulic Gradient	Assumed K (ft/day)	Porosity	Flow Velocity (ft/day)
Lower End of Range	MW-1 and MW-5S	3.23	1,547	0.00209	84	0.437	0.40
Higher End of Range	MW-1 and MW-5S	3.23	1,547	0.00209	130	0.437	0.62

The hydraulic gradient was measured from well MW-1 to well MW-5S. The published hydraulic conductivity range of 84 to 130 ft/day for the Kirkwood-Cohansey aquifer (USGS 2008) and the effective porosity used in Layer 2 of the leachate modeling analysis (discussed in Section 3.2 and Appendix E) were used in this estimate. Layer 2 is sand and should be comparable to the Kirkwood-Cohansey aquifer. There is no published effective porosity value for the Kirkwood-Cohansey Formation currently available. The estimated flow velocity is 0.40 to 0.62 ft/day.

3.4 Analytical Results

The laboratory data reports are provided in Attachment A and the analytical results for the groundwater samples are shown in Table 3-2a through Table 3-2d. The tables compare the results to New Jersey Groundwater Quality Standards (GWQSs) for Class II-A groundwater. Groundwater at the Site is Class I-PL and therefore the Class II-A standards do not apply. However, comparison to these standards helps provide an indication of water quality. In the discussion below, data are discussed in terms of the Class I-PL non-degradation standard, and the Class II-A GWQSs. Additionally, the data were compared to relevant ecological screening benchmarks (ESBs) in an ecotoxicity assessment (Appendix G).

3.4.1 PFAS

PFAS results for wells MW-5S, MW-5D, MW-6S, MW-6D, and the temporary well are provided in Table 3-2a. Several PFAS compounds were observed in wells MW-5S and

MW-5D, including perfluorononanoic acid (PFNA), perfluorooctane sulfonate (PFOS), and perfluorooctonoic acid (PFOA). These PFAS have GWQS; the GWQS and results in wells MW-5S and MW-5D are summarized in the following table.

	GWQS	Well MW-5S	Well MW-5D
PFNA	0.013	0.00121J/0.00109J	ND
PFOS	0.013	0.00313/0.00276	0.000938J
PFOA	0.014	0.00323/0.00318	0.00393

All results in ug/L
Duplicate results are separated by a /
J – estimated
ND – not detected

In all cases, the PFAS results were less than their GWQS. No PFAS were detected at well MW-6S, and only one PFAS compound, PFOA, was detected at well MW-6D. This concentration was 0.00025 ug/L, well below the GWQS of 0.014 ug/L. Similarly, the only PFAS compound detected in the temporary well sample was PFOA, which was observed at estimated concentrations of 0.000292 ug/L and 0.000276 ug/L in the sample and duplicate. These values are well below the GWQS of 0.014 ug/L. An ecotoxicity assessment (Appendix G) compared the concentrations to ESBs and found that all concentrations were below ESBs.

In the absence of PFAS data from the wells that best represent groundwater beneath the landfill (MW-1 through MW-4) the potential contribution of landfilled materials on the PFAS results in the wells outside the landfill cannot be ascertained.

3.4.2 1,4-Dioxane

1,4-Dioxane results are summarized in Table 3-2b. No 1,4-dioxane was detected in groundwater.

3.4.3 TCL SVOCs

TCL SVOC results are provided in Table 3-2b. SVOCs were generally not detected, and where detected, were present at very low concentrations below their GWQS. The only well to contain SVOCs at a concentration above their GWQS is well MW-5S. The constituents at elevated concentrations were all polycyclic aromatic hydrocarbons (PAHs) which are typically associated with heavy oil products and asphalt. However, these constituents only appeared in one of the duplicate samples collected at well MW-5S, therefore, their presence is not confirmed. PAHs are low solubility compounds that do not migrate significantly in groundwater. Therefore, it is unlikely that they could migrate from the area of well MW-5S to the wetlands (Appendix G).

Previous sampling (Maser 2000) indicated that hexachlorobenzene was detected in wells MW-2 and MW-3. Hexachlorobenzene was not detected in any samples during this round of sampling, other than an estimated concentration of 0.1 ug/L in the temporary well, which is below the GWQS of 0.2 ug/L for this compound. The duplicate sample from this well did not contain hexachlorobenzene.

3.4.4 TAL Metals

TAL metals results are provided in Table 3-2c. Only a few metals were present at concentrations above their GWQS. These included aluminum, iron, manganese and sodium and their concentrations were generally only marginally above their GWQS.

Comparing the wells outside the landfill (MW-5S, MW-5D, MW-6S, and MW-6D) to those within or at the edge of the landfill (MW-1 though MW-4), the concentrations outside the landfill are similar to or less than those within the landfill. The exception to this pattern is the sodium results at wells MW-5S and MW-5D, which had the highest sodium concentrations. These wells are downgradient of the ongoing salt and equipment storage on the landfill, so the sodium is likely related to the salt storage. These data indicate that the ongoing activities on the landfill can impact groundwater.

An ecotoxicity assessment determined that iron is the only metal with a concentration in exceedance of an ESB. This concentration was detected at well MW-2 and does not extend beyond the landfill, as shown by the downgradient sample collected from well MW-5S which had a concentration below the ESB (Appendix G).

3.4.5 Leachate Parameters

The analytical results for leachate parameters are provided in Table 3-2c. The leachate parameters (under the heading General Chemistry in the table) are common constituents that are often associated with landfills and landfill leachate. The concentrations of all leachate parameters are below their GWQS.

Chloride was detected in most of the monitoring wells. The highest concentrations were in wells MW-5S and MW-5D. These wells are downgradient of the salt storage dome so the chloride likely originates there. A similar pattern is observed for sulfate and total dissolved solids (TDS).

Of particular interest as a landfill signature are ammonia and nitrogen. As noted above, the concentrations of these constituents are less than their GWQS. In addition, the ammonia and nitrate results were compared to the Pinelands Surface Water Quality Criteria of 2,000 ug/L for each constituent. An ecotoxicity assessment (Appendix G) also compared the concentrations to United States Environmental Protection Agency (2013) Aquatic Life Ambient Water Quality Criteria – Freshwater Chronic (1,900 ug/L total ammonia nitrogen). The groundwater concentrations are also below these criteria, and therefore would not be of ecological concern if they were to reach a surface water body. The concentrations of ammonia and nitrate in the wells outside the landfill are similar to or less than the concentrations in the wells within or at the edge of the landfill, and therefore show no evidence of landfill leachate migration away from the landfill.

3.4.6 EDCs

The analytical results for EDCs are provided in Table 3-2d. These constituents were measured in the samples from wells MW-6S and MW-6D. Groundwater or surface water criteria are not available for EDCs.

Bisphenol A was detected at 0.00255 ug/L at well MW-6S. Bisphenol S was detected at 0.00248 ug/L and at 0.00149 ug/L in well MW-6D. No other bisphenol compounds were detected. Detected concentrations of bisphenol A and bisphenol S are below the applicable ecological screening benchmark (Appendix G).

3.5 Potential Groundwater Receptors

An updated well search was conducted in April 2022 (Appendix H). There are numerous irrigation wells within one mile of the Site, and one public supply well in the Cedar Glen Lakes community to the southeast (side gradient) of the Site. A map of the wells used by

the Manchester Township Water Utility – Western Service Area (Western) is included in Appendix H. The Site, not shown on the map, is directly west (to the left) of the map extent. The map shows that the wells used for public water are located side-gradient of the Site, and therefore would not be impacted by groundwater from the Site. To be conservative, the periodic water quality data from Western were reviewed. The data show that there are no VOCs, nitrate, manganese, or sodium above the water quality standards (Appendix H). Iron was slightly above the recommended upper limit; however, this limit is not mandatory, and the concentrations were attributed to erosion of natural deposits in Western's water quality report. PAHs were not analyzed by Western, but due to the immobile nature of these compounds, they are not expected to migrate to any supply wells. According to the water quality report, the supply wells are all installed a minimum of 90 ft bgs, and the township controls the property around the wells and restricts any activity that could cause contamination. Additionally, the water is treated by Western prior to use.

As indicated on Figure 3-1, freshwater forested/shrub wetlands are present off-Site to the north and east (downgradient) of the landfill. An ecotoxicity assessment was completed using the data discussed in Section 3.4 to determine if there are potential impacts to nearby receptors (Appendix G). The results of this assessment showed that the low concentrations detected do not pose a risk to the nearby wetland ecosystem.

4. SUMMARY AND CONCLUSIONS

This work included installation of four new monitoring wells and a temporary well to better define groundwater flow and evaluate potential impacts to groundwater in areas near but outside the landfill. The results of the investigation indicate the following.

- The groundwater elevation data indicate that the water table is near the bottom of the landfilled material. Horizontal flow is generally away from the landfill toward nearby surface water bodies. The vertical gradient is downward.
- Although minor exceedances of select PAHs were identified in groundwater, these are not likely to pose risk due to the low magnitude and distance from surface water. No other concentrations exceeded ESBs, indicating that there is no risk to potential ecological receptors.
- Overall, the groundwater analytical data indicate limited impacts to groundwater beneath the landfill.
- There is no significant landfill leachate signature in the groundwater, as evidenced by the low concentrations of ammonia and nitrate, which are below their GWQS and below Pinelands Surface Water Criteria.
- Most constituent concentrations are less than their GWQS. In the few cases where concentrations are elevated, the concentrations are only marginally higher than their GWQS.
- There is some migration of constituents away from the landfill as evidenced by constituents observed in groundwater at well MW-5S. However, this area is downgradient of an active salt and equipment storage area, and the constituents in well MW-5S and MW-5D could be related to these ongoing activities. The high levels of sodium and chloride are consistent with migration from this area, so other constituents could migrate along the same pathway.
- The analytical results at the temporary well confirm no significant impacts to groundwater downgradient of the former septic waste disposal area, which was located in the current location of the police shooting range.

Based on these observations, groundwater is not significantly impacted by the landfill and no further hydrogeologic investigation is required.

5. REFERENCES

Maser Consulting. 2020. *Site Hydrogeologic Investigation Report. Township of Manchester. Former Manchester (a.k.a. Whiting) Landfill*. October.

NJDEP. (2021, November). *PFAS Sampling Information for Water Systems Performing Sample Collection*

USGS. 2008. *Hydrogeologic Framework in Three Drainage Basins in the New Jersey Pinelands, 2004-06*. Scientific Investigations Report 2008-5061.

TABLES

TABLE 3-1:
Groundwater Elevations
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well	Elevation of Measuring Point	Depth to Water	Groundwater Elevation
MW1	164.38	26.55	137.83
MW2	166.27	29.21	137.06
MW3	160.43	24.40	136.03
MW4	164.95	28.68	136.27
MW5S	163.90	29.30	134.60
MW5D	164.43	30.39	134.04
MW6S	165.78	29.87	135.91
MW6D	165.83	30.01	135.82

Notes:

Elevations are in feet above mean sea level.

Depths to water are in feet.

Depth to water measurements were made on October 13, 2021.

Elevations of measuring points at wells MW1 and MW2 are based on original 1985 survey, corrected for NAVD 1988 vertical datum, and are considered estimates.

TABLE 3-2a:
Groundwater Analytical Results - PFAS
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	MW-5D	MW-5S	MW-5S	MW-6D
Sample Date			10/14/2021	10/14/2021	10/14/2021	10/15/2021
Field Sample ID			MW-5D-10142021	MW-5S-10142021	DUP-01-10142021	MW-6D-10152021
Laboratory ID			L2156219-04	L2156219-02	L2156219-03	L2156635-05
PERFLUORINATED ALKYL ACIDS (ug/L)						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	NS	0.00174 U	0.00199 U	0.00188 U	0.00188 U
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	NS	0.00174 U	0.00199 U	0.00188 U	0.00188 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NS	0.00174 U	0.00059 J	0.000635 J	0.00188 U
Perfluorodecanoic acid (PFDA)	335-76-2	NS	0.00174 U	0.00199 U	0.00188 U	0.00188 U
Perfluorododecanoic acid (PFDoA)	307-55-1	NS	0.00174 U	0.00199 U	0.00188 U	0.00188 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	0.000976 J	0.00116 J	0.00107 J	0.00188 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NS	0.000659 J	0.000582 J	0.000544 J	0.00188 U
Perfluorohexanoic acid (PFHxA)	307-24-4	NS	0.000596 J	0.00142 J	0.00143 J	0.00188 U
Perfluorononanoic acid (PFNA)	375-95-1	0.013	0.00174 U	0.00121 J	0.00109 J	0.00188 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.013	0.000938 J	0.00313	0.00276	0.00188 U
Perfluorooctanoic acid (PFOA)	335-67-1	0.014	0.00393	0.00323	0.00318	0.000248 JF
Perfluorotetradecanoic acid (PFTeA)	376-06-7	NS	0.00174 U	0.00199 U	0.00188 U	0.00188 U
Perfluorotridecanoic acid (PFTriA)	72629-94-8	NS	0.00174 U	0.00199 U	0.00188 U	0.00188 U
Perfluoroundecanoic acid (PFUnA)	2058-94-8	NS	0.00174 U	0.00199 U	0.00188 U	0.00188 U
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	13252-13-6	NS	NA	NA	NA	NA
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	NS	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	NA	NA	NA	NA
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	NA	NA	NA	NA

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
J - Estimated concentration. Concentration is below the reporting limit but above the method detection limit.
U - Not detected at the method detection limit
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
NA - Not Analyzed

TABLE 3-2a:
Groundwater Analytical Results - PFAS
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	MW-6S	Equipment Blank		
Sample Date			10/15/2021	10/13/2021	10/14/2021	10/15/2021
Field Sample ID			MW-6S-10152021	EB-01	EB-02	EB-03
Laboratory ID			L2156635-04	L2155878-01	L2156219-05	L2156635-01
PERFLUORINATED ALKYL ACIDS (ug/L)						
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorodecanoic acid (PFDA)	335-76-2	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorododecanoic acid (PFDoA)	307-55-1	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorohexanoic acid (PFHxA)	307-24-4	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorononanoic acid (PFNA)	375-95-1	0.013	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.013	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorooctanoic acid (PFOA)	335-67-1	0.014	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorotetradecanoic acid (PFTeA)	376-06-7	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluorotridecanoic acid (PFTriA)	72629-94-8	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
Perfluoroundecanoic acid (PFUnA)	2058-94-8	NS	0.00191 U	0.00178 U	0.00191 U	0.00179 U
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	13252-13-6	NS	NA	NA	NA	NA
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	NS	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	NA	NA	NA	NA
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	NA	NA	NA	NA

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
J - Estimated concentration. Concentration is below the reporting limit but above the methoc detection limit.
U - Not detected at the method detection limit
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratoı criteria. Results are considered to be an estimated maximum concentration.
NA - Not Analyzed

TABLE 3-2a:
Groundwater Analytical Results - PFAS
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	Temp Well	Temp Well	Equipment Blank
Sample Date			12/12/2022	12/12/2022	12/12/2022
Field Sample ID			TEMPWELL-121222	DUP-01-121222	EB-01-121222
Laboratory ID			L2269727-01	L2269727-02	L2269727-03
PERFLUORINATED ALKYL ACIDS (ug/L)					
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	NS	0.0018 U	0.00189 U	0.00178 U
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	NS	0.0018 U	0.00189 U	0.00178 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NS	0.0018 U	0.00189 U	0.00178 U
Perfluorodecanoic acid (PFDA)	335-76-2	NS	0.0018 U	0.00189 U	0.00178 U
Perfluorododecanoic acid (PFDoA)	307-55-1	NS	0.0018 U	0.00189 U	0.00178 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	0.0018 U	0.00189 U	0.00178 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NS	0.0018 U	0.00189 U	0.00178 U
Perfluorohexanoic acid (PFHxA)	307-24-4	NS	0.0018 U	0.00189 U	0.00178 U
Perfluorononanoic acid (PFNA)	375-95-1	0.013	0.0018 U	0.00189 U	0.00178 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.013	0.0018 U	0.00189 U	0.00178 U
Perfluorooctanoic acid (PFOA)	335-67-1	0.014	0.000292 J	0.000276 J	0.00178 U
Perfluorotetradecanoic acid (PFTeA)	376-06-7	NS	0.0018 U	0.00189 U	0.00178 U
Perfluorotridecanoic acid (PFTriA)	72629-94-8	NS	0.0018 U	0.00189 U	0.00178 U
Perfluoroundecanoic acid (PFUnA)	2058-94-8	NS	0.0018 U	0.00189 U	0.00178 U
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	13252-13-6	NS	0.0451 U	0.0472 U	0.0444 U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	NS	0.0018 U	0.00189 U	0.00178 U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	0.0018 U	0.00189 U	0.00178 U
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	0.0018 U	0.00189 U	0.00178 U

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
J - Estimated concentration. Concentration is below the reporting limit but above the metho detection limit.
U - Not detected at the method detection limit
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laborato criteria. Results are considered to be an estimated maximum concentration.
NA - Not Analyzed

TABLE 3-2b:
Groundwater Analytical Results- 1,4 Dioxane and SVOCs
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Geosyntec Consultants

Well ID	CAS Number	NJ-GWIIA	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5S
Sample Date			10/15/2021	10/13/2021	10/14/2021	10/15/2021	10/14/2021	10/14/2021
Field Sample ID			MW-1-10152021	MW-02-10132021	MW-3-10142021	MW-4-10152021	MW-5S-10142021	DUP-01-10142021
Laboratory ID			L2156635-03	L2155878-02	L2156219-01	L2156635-02	L2156219-02	L2156219-03
Semi-Volatile Organic Compounds (ug/L)								
Acenaphthene	83-32-9	400	2 U	2 U	2 U	2 U	2 U	2 U
Acenaphthylene	208-96-8	100	2 U	2 U	2 U	2 U	2 U	2 U
Acetophenone	98-86-2	700	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	120-12-7	2000	2 U	2 U	2 U	2 U	2 U	2 U
Atrazine	1912-24-9	3	3 U	3 U	3 U	3 U	3 U	3 U
Benzaldehyde	100-52-7	NS	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	56-55-3	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.24	0.1 U
Benzo(a)pyrene (BaP)	50-32-8	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.25	0.1 U
Benzo(b)fluoranthene	205-99-2	0.2	0.02 J	0.1 U	0.1 U	0.1 U	0.41	0.1 U
Benzo(g,h,i)perylene	191-24-2	100	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene	207-08-9	0.5	0.02 J	0.1 U	0.1 U	0.1 U	0.12	0.1 U
1,1'-Biphenyl	92-52-4	400	2 U	2 U	2 U	2 U	2 U	2 U
bis(2-Chloroethyl) Ether	111-44-4	7	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	111-91-1	NS	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-chloroisopropyl) ether	108-60-1	300	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	117-81-7	3	3 U	3 U	3 U	3 U	3 U	3 U
Butyl Benzyl phthalate	85-68-7	100	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl phenyl ether	101-55-3	NS	2 U	2 U	2 U	2 U	2 U	2 U
Caprolactam	105-60-2	4000	23	16	10 U	31	46	23
Carbazole	86-74-8	NS	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	106-47-8	30	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	91-58-7	600	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-methylphenol	59-50-7	100	2 U	2 U	2 U	2 U	2 U	2 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	2 U	2 U	2 U	2 U	2 U	2 U
2-Chlorophenol	95-57-8	40	2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	218-01-9	5	2 U	2 U	2 U	2 U	2 U	2 U
Dibenzo(a,h)anthracene	53-70-3	0.3	0.04 J	0.1 U	0.1 U	0.1 U	0.05 J	0.1 U
Dibenzofuran	132-64-9	NS	2 U	2 U	2 U	2 U	2 U	2 U
3,3'-Dichlorobenzidine	91-94-1	30	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	120-83-2	20	5 U	5 U	5 U	5 U	5 U	5 U
Diethyl phthalate	84-66-2	6000	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	105-67-9	100	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl phthalate	131-11-3	100	5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-o-cresol	534-52-1	0.7	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not analyzed

TABLE 3-2b:
Groundwater Analytical Results- 1,4 Dioxane and SVOCs
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5S
Sample Date			10/15/2021	10/13/2021	10/14/2021	10/15/2021	10/14/2021	10/14/2021
Field Sample ID			MW-1-10152021	MW-02-10132021	MW-3-10142021	MW-4-10152021	MW-5S-10142021	DUP-01-10142021
Laboratory ID			L2156635-03	L2155878-02	L2156219-01	L2156635-02	L2156219-02	L2156219-03
Semi-Volatile Organic Compounds (ug/L)								
2,4-Dinitrophenol	51-28-5	40	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	121-14-2	NS	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	606-20-2	NS	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butylphthalate	84-74-2	700	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-octylphthalate	117-84-0	100	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	123-91-1	0.4	0.15 U	0.144 U	0.139 U	0.144 U	0.144 U	0.15 U
Fluoranthene	206-44-0	300	2 U	2 U	2 U	2 U	2 U	2 U
Fluorene	86-73-7	300	2 U	2 U	2 U	2 U	2 U	2 U
Hexachlorobenzene (HCB)	118-74-1	0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Hexachlorobutadiene	87-68-3	1	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorocyclopentadiene (HCCP)	77-47-4	40	20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	67-72-1	7	2 U	2 U	2 U	2 U	2 U	2 U
Indeno (1,2,3-cd) pyrene	193-39-5	0.2	0.04 J	0.1 U	0.1 U	0.1 U	0.22	0.1 U
Isophorone	78-59-1	40	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene	91-57-6	30	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylphenol	95-48-7	50	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	88-74-4	NS	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	91-20-3	300	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	100-01-6	NS	5 U	5 U	5 U	5 U	5 U	5 U
Nitrobenzene	98-95-3	6	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitrophenol	100-02-7	NS	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	621-64-7	10	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	88-75-5	NS	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	86-30-6	10	2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	87-86-5	0.3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Phenanthrene	85-01-8	100	2 U	2 U	2 U	2 U	2 U	2 U
Phenol	108-95-2	2000	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	129-00-0	200	2 U	2 U	2 U	2 U	2 U	2 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	10 U	10 U	10 U	10 U	10 U	10 U
2,3,4,6-Tetrachlorophenol	58-90-2	200	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol	95-95-4	700	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	88-06-2	20	5 U	5 U	5 U	5 U	5 U	5 U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	50	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	NS	NA	NA	NA	NA	NA	NA

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not analyzed

TABLE 3-2b:
Groundwater Analytical Results- 1,4 Dioxane and SVOCs
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	MW-5D	MW-6S	MW-6D	Equipment Blank		
Sample Date			10/14/2021	10/15/2021	10/15/2021	10/13/2021	10/14/2021	10/15/2021
Field Sample ID			MW-5D-10142021	MW-6S-10152021	MW-6D-10152021	EB-01	EB-02	EB-03
Laboratory ID			L2156219-04	L2156635-04	L2156635-05	L2155878-01	L2156219-05	L2156635-01
Semi-Volatile Organic Compounds (ug/L)								
Acenaphthene	83-32-9	400	2 U	2 U	2 U	2 U	2 U	2 U
Acenaphthylene	208-96-8	100	2 U	2 U	2 U	2 U	2 U	2 U
Acetophenone	98-86-2	700	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	120-12-7	2000	2 U	2 U	2 U	2 U	2 U	2 U
Atrazine	1912-24-9	3	3 U	3 U	3 U	3 U	3 U	3 U
Benzaldehyde	100-52-7	NS	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	56-55-3	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.08 J
Benzo(a)pyrene (BaP)	50-32-8	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.07 J
Benzo(b)fluoranthene	205-99-2	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.14
Benzo(g,h,i)perylene	191-24-2	100	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene	207-08-9	0.5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 J
1,1'-Biphenyl	92-52-4	400	2 U	2 U	2 U	2 U	2 U	2 U
bis(2-Chloroethyl) Ether	111-44-4	7	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	111-91-1	NS	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-chloroisopropyl) ether	108-60-1	300	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	117-81-7	3	3 U	3 U	3 U	3 U	3 U	3 U
Butyl Benzyl phthalate	85-68-7	100	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl phenyl ether	101-55-3	NS	2 U	2 U	2 U	2 U	2 U	2 U
Caprolactam	105-60-2	4000	6 J	5.2 J	16	10 U	10 U	10 U
Carbazole	86-74-8	NS	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	106-47-8	30	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	91-58-7	600	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-methylphenol	59-50-7	100	2 U	2 U	2 U	2 U	2 U	2 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	2 U	2 U	2 U	2 U	2 U	2 U
2-Chlorophenol	95-57-8	40	2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	218-01-9	5	2 U	2 U	2 U	2 U	2 U	2 U
Dibenzo(a,h)anthracene	53-70-3	0.3	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.02 J
Dibenzofuran	132-64-9	NS	2 U	2 U	2 U	2 U	2 U	2 U
3,3'-Dichlorobenzidine	91-94-1	30	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	120-83-2	20	5 U	5 U	5 U	5 U	5 U	5 U
Diethyl phthalate	84-66-2	6000	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	105-67-9	100	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl phthalate	131-11-3	100	5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-o-cresol	534-52-1	0.7	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not analyzed

TABLE 3-2b:
Groundwater Analytical Results- 1,4 Dioxane and SVOCs
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	MW-5D	MW-6S	MW-6D	Equipment Blank		
Sample Date			10/14/2021	10/15/2021	10/15/2021	10/13/2021	10/14/2021	10/15/2021
Field Sample ID			MW-5D-10142021	MW-6S-10152021	MW-6D-10152021	EB-01	EB-02	EB-03
Laboratory ID			L2156219-04	L2156635-04	L2156635-05	L2155878-01	L2156219-05	L2156635-01
Semi-Volatile Organic Compounds (ug/L)								
2,4-Dinitrophenol	51-28-5	40	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	121-14-2	NS	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	606-20-2	NS	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butylphthalate	84-74-2	700	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-octylphthalate	117-84-0	100	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	123-91-1	0.4	0.144 U	0.144 U	0.139 U	0.134 U	0.139 U	0.144 U
Fluoranthene	206-44-0	300	2 U	2 U	2 U	2 U	2 U	2 U
Fluorene	86-73-7	300	2 U	2 U	2 U	2 U	2 U	2 U
Hexachlorobenzene (HCB)	118-74-1	0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Hexachlorobutadiene	87-68-3	1	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorocyclopentadiene (HCCP)	77-47-4	40	20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	67-72-1	7	2 U	2 U	2 U	2 U	2 U	2 U
Indeno (1,2,3-cd) pyrene	193-39-5	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.09 J
Isophorone	78-59-1	40	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene	91-57-6	30	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylphenol	95-48-7	50	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	88-74-4	NS	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	91-20-3	300	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	100-01-6	NS	5 U	5 U	5 U	5 U	5 U	5 U
Nitrobenzene	98-95-3	6	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitrophenol	100-02-7	NS	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	621-64-7	10	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	88-75-5	NS	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	86-30-6	10	2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	87-86-5	0.3	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Phenanthrene	85-01-8	100	2 U	2 U	2 U	2 U	2 U	2 U
Phenol	108-95-2	2000	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	129-00-0	200	2 U	2 U	2 U	2 U	2 U	2 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	10 U	10 U	10 U	10 U	10 U	10 U
2,3,4,6-Tetrachlorophenol	58-90-2	200	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol	95-95-4	700	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	88-06-2	20	5 U	5 U	5 U	5 U	5 U	5 U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	50	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	NS	NA	NA	NA	NA	NA	NA

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not analyzed

TABLE 3-2b:
Groundwater Analytical Results- 1,4 Dioxane and SVOCs
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	Temp Well	Temp Well	Equipment Blank
Sample Date			12/12/2022	12/12/2022	12/12/2022
Field Sample ID			TEMPWELL-121222	DUP-01-121222	EB-01-121222
Laboratory ID			L2269727-01	L2269727-02	L2269727-03
Semi-Volatile Organic Compounds (ug/L)					
Acenaphthene	83-32-9	400	2 U	2 U	2 U
Acenaphthylene	208-96-8	100	2 U	2 U	2 U
Acetophenone	98-86-2	700	5 U	5 U	5 U
Anthracene	120-12-7	2000	2 U	2 U	2 U
Atrazine	1912-24-9	3	3 U	3 U	3 U
Benzaldehyde	100-52-7	NS	5 U	5 U	5 U
Benzo(a)anthracene	56-55-3	0.1	0.04 J	0.04 J	0.08 J
Benzo(a)pyrene (BaP)	50-32-8	0.1	0.02 J	0.02 J	0.07 J
Benzo(b)fluoranthene	205-99-2	0.2	0.03 J	0.04 J	0.12
Benzo(g,h,i)perylene	191-24-2	100	2 U	2 U	2 U
Benzo(k)fluoranthene	207-08-9	0.5	.04 J	.04 J	.06 J
1,1'-Biphenyl	92-52-4	400	2 U	2 U	2 U
bis(2-Chloroethyl) Ether	111-44-4	7	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	111-91-1	NS	5 U	5 U	5 U
Bis(2-chloroisopropyl) ether	108-60-1	300	2 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	117-81-7	3	3 U	3 U	3 U
Butyl Benzyl phthalate	85-68-7	100	5 U	5 U	5 U
4-Bromophenyl phenyl ether	101-55-3	NS	2 U	2 U	2 U
Caprolactam	105-60-2	4000	10 U	10 U	10 U
Carbazole	86-74-8	NS	2 U	2 U	2 U
4-Chloroaniline	106-47-8	30	5 U	5 U	5 U
2-Chloronaphthalene	91-58-7	600	2 U	2 U	2 U
4-Chloro-3-methylphenol	59-50-7	100	2 U	2 U	2 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	2 U	2 U	2 U
2-Chlorophenol	95-57-8	40	2 U	2 U	2 U
Chrysene	218-01-9	5	2 U	2 U	2 U
Dibenzo(a,h)anthracene	53-70-3	0.3	.04 J	.04 J	.05 J
Dibenzofuran	132-64-9	NS	2 U	2 U	2 U
3,3'-Dichlorobenzidine	91-94-1	30	5 U	5 U	5 U
2,4-Dichlorophenol	120-83-2	20	5 U	5 U	5 U
Diethyl phthalate	84-66-2	6000	5 U	5 U	5 U
2,4-Dimethylphenol	105-67-9	100	5 U	5 U	5 U
Dimethyl phthalate	131-11-3	100	5 U	5 U	5 U
4,6-Dinitro-o-cresol	534-52-1	0.7	0.7 U	0.7 U	0.7 U

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not analyzed

TABLE 3-2b:
Groundwater Analytical Results- 1,4 Dioxane and SVOCs
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	Temp Well	Temp Well	Equipment Blank
Sample Date			12/12/2022	12/12/2022	12/12/2022
Field Sample ID			TEMPWELL-121222	DUP-01-121222	EB-01-121222
Laboratory ID			L2269727-01	L2269727-02	L2269727-03
Semi-Volatile Organic Compounds (ug/L)					
2,4-Dinitrophenol	51-28-5	40	20 U	20 U	20 U
2,4-Dinitrotoluene	121-14-2	NS	5 U	5 U	5 U
2,6-Dinitrotoluene	606-20-2	NS	5 U	5 U	5 U
Di-n-butylphthalate	84-74-2	700	5 U	5 U	5 U
Di-n-octylphthalate	117-84-0	100	5 U	5 U	5 U
1,4-Dioxane	123-91-1	0.4	0.144 U	0.139 U	0.15 U
Fluoranthene	206-44-0	300	2 U	2 U	2 U
Fluorene	86-73-7	300	2 U	2 U	2 U
Hexachlorobenzene (HCB)	118-74-1	0.02	0.01 J	0.02 U	0.02 U
Hexachlorobutadiene	87-68-3	1	1 U	1 U	1 U
Hexachlorocyclopentadiene (HCCP)	77-47-4	40	20 U	20 U	20 U
Hexachloroethane	67-72-1	7	2 U	2 U	2 U
Indeno (1,2,3-cd) pyrene	193-39-5	0.2	.03 J	.03 J	.08 J
Isophorone	78-59-1	40	5 U	5 U	5 U
2-Methylnaphthalene	91-57-6	30	2 U	2 U	2 U
2-Methylphenol	95-48-7	50	5 U	5 U	5 U
2-Nitroaniline	88-74-4	NS	5 U	5 U	5 U
Naphthalene	91-20-3	300	2 U	2 U	2 U
4-Nitroaniline	100-01-6	NS	5 U	5 U	5 U
Nitrobenzene	98-95-3	6	2 U	2 U	2 U
4-Nitrophenol	100-02-7	NS	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	621-64-7	10	5 U	5 U	5 U
2-Nitrophenol	88-75-5	NS	10 U	10 U	10 U
N-Nitrosodiphenylamine	86-30-6	10	2 U	2 U	2 U
Pentachlorophenol	87-86-5	0.3	0.3 U	0.3 U	0.3 U
Phenanthrene	85-01-8	100	2 U	2 U	2 U
Phenol	108-95-2	2000	5 U	5 U	5 U
Pyrene	129-00-0	200	2 U	2 U	2 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	10 U	10 U	10 U
2,3,4,6-Tetrachlorophenol	58-90-2	200	5 U	5 U	5 U
2,4,5-Trichlorophenol	95-95-4	700	5 U	5 U	5 U
2,4,6-Trichlorophenol	88-06-2	20	5 U	5 U	5 U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	50	5 U	5 U	5 U
3-Nitroaniline	99-09-2	NS	5 U	5 U	5 U

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not analyzed

TABLE 3-2c:
Groundwater Analytical Results - Metals and General Chemistry
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Geosyntec Consultants

Well ID	CAS Number	NJ-GWIIA	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5S
Sample Date			10/15/2021	10/13/2021	10/14/2021	10/15/2021	10/14/2021	10/14/2021
Field Sample ID			MW-1-10152021	MW-02-10132021	MW-3-10142021	MW-4-10152021	MW-5S-10142021	DUP-01-10142021
Laboratory ID			L2156635-03	L2155878-02	L2156219-01	L2156635-02	L2156219-02	L2156219-03
METALS (ug/L)								
Aluminum	7429-90-5	200	140	1360	39.5	522	301	298
Antimony	7440-36-0	6	4 U	4 U	4 U	4 U	4 U	1.094 J
Arsenic	7440-38-2	3	0.3347 J	1.221	0.5 U	1.033	0.5445	0.5487
Barium	7440-39-3	6000	41.92	55.19	31.99	87.95	64.84	63.93
Beryllium	7440-41-7	1	0.5 U	0.1586 J	0.5 U	0.2081 J	0.5 U	0.5 U
Cadmium	7440-43-9	4	0.2 U	0.1325 J	0.2 U	0.0885 J	0.0657 J	0.0634 J
Calcium	7440-70-2	NS	2320	4960	4350	3220	3780	3650
Chromium	7440-47-3	70	0.5529 J	3.576	1 U	0.19 J	0.6745 J	0.6616 J
Cobalt	7440-48-4	100	0.5151	2.928	0.3824 J	1.523	0.7797	0.8256
Copper	7440-50-8	1300	0.997 J	4.724	0.4844 J	1.814	1.679	1.664
Iron	7439-89-6	300	54.3	1760	26.5 J	113	309	311
Lead	7439-92-1	5	0.4656 J	2.019	1 U	0.3606 J	0.6504 J	0.6388 J
Magnesium	7439-95-4	NS	1740	1730	782	1670	1130	1120
Manganese	7439-96-5	50	16.62	62.58	55.85	49.28	31.55	30.24
Mercury	7439-97-6	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	100	1.375 J	5.857	2 U	1.474 J	1.13 J	1.104 J
Potassium	7440-09-7	NS	4270	2640	1470	3910	9380	9280
Selenium	7782-49-2	40	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	40	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	7440-23-5	50000	10400	28800	2790	35300	59400	58800
Thallium	7440-28-0	2	1 U	1 U	1 U	1 U	0.1953 J	0.2385 J
Vanadium	7440-62-2	NS	5 U	2.743 J	5 U	5 U	5 U	5 U
Zinc	7440-66-6	2000	10 U	20.2	10 U	4.647 J	14.67	13.85
General Chemistry (ug/L)								
Total Alkalinity	ALK	NS	3000	8100	3800	2000 U	4100	4700
BOD, 5 Day	E1640606	NS	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Chemical Oxygen Demand	COD	NS	20000 U	21000	19000 J	9800 J	9800 J	12000 J
Chloride	16887-00-6	250000	21000	--	2600	52000	81000	79000
Total Dissolved Solids	TDS	500000	34000	140000	42000	130000	190000	180000
Ammonia as N	7664-41-7	3000	50.7 J	88.9 J	65 J	38.3 J	162	102
Nitrate as N	14797-55-8	10000	182	1300	1220	535	224	223
Sulfate as SO4	14808-79-8	250000	4400 J	11000	7600 J	9300 J	21000	20000

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not Analyzed

TABLE 3-2c:
Groundwater Analytical Results - Metals and General Chemistry
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Geosyntec Consultants

Well ID	CAS Number	NJ-GWIIA	MW-5D	MW-6S	MW-6D	Equipment Blank		
Sample Date			10/14/2021	10/15/2021	10/15/2021	10/13/2021	10/14/2021	10/15/2021
Field Sample ID			MW-5D-10142021	MW-6S-10152021	MW-6D-10152021	EB-01	EB-02	EB-03
Laboratory ID			L2156219-04	L2156635-04	L2156635-05	L2155878-01	L2156219-05	L2156635-01
METALS (ug/L)								
Aluminum	7429-90-5	200	380	241	362	3.82 J	10 U	10 U
Antimony	7440-36-0	6	4 U	4 U	4 U	4 U	4 U	4 U
Arsenic	7440-38-2	3	0.3867 J	0.4139 J	0.4094 J	0.5 U	0.5 U	0.5 U
Barium	7440-39-3	6000	37.23	53.53	51.9	0.5 U	0.5 U	0.5 U
Beryllium	7440-41-7	1	0.1746 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	7440-43-9	4	0.2 U	0.1532 J	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	7440-70-2	NS	2860	1810	3000	100 U	100 U	100 U
Chromium	7440-47-3	70	0.2294 J	0.5799 J	0.7564 J	1 U	1 U	1 U
Cobalt	7440-48-4	100	0.9516	4.903	1.001	0.5 U	0.5 U	0.5 U
Copper	7440-50-8	1300	0.4047 J	1.163	0.6228 J	1 U	1 U	1 U
Iron	7439-89-6	300	114	69.4	385	50 U	50 U	50 U
Lead	7439-92-1	5	1 U	1 U	1 U	1 U	1 U	1 U
Magnesium	7439-95-4	NS	1430	466	1550	70 U	70 U	70 U
Manganese	7439-96-5	50	31.1	50.54	23.63	1 U	1 U	1 U
Mercury	7439-97-6	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	100	1.244 J	2.88	1.059 J	2 U	2 U	2 U
Potassium	7440-09-7	NS	3520	294	6100	100 U	100 U	100 U
Selenium	7782-49-2	40	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	40	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	7440-23-5	50000	45300	2320	26500	52.6 J	100 U	100 U
Thallium	7440-28-0	2	1 U	0.2111 J	0.351 J	1 U	1 U	1 U
Vanadium	7440-62-2	NS	5 U	5 U	5 U	5 U	5 U	5 U
Zinc	7440-66-6	2000	10 U	4.966 J	10 U	10 U	10 U	3.464 J
General Chemistry (ug/L)								
Total Alkalinity	ALK	NS	2000 U	2000 U	6000	2000 U	2000 U	2000 U
BOD, 5 Day	E1640606	NS	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
Chemical Oxygen Demand	COD	NS	20000 U	20000 U	20000 U	--	20000 U	20000 U
Chloride	16887-00-6	250000	69000	3400	46000	--	500 J	360 J
Total Dissolved Solids	TDS	500000	130000	7000 J	87000	10000 U	10000 U	10000 U
Ammonia as N	7664-41-7	3000	199	75 U	169	75 U	46.2 J	30.7 J
Nitrate as N	14797-55-8	10000	305	57.6 J	539	100 U	100 U	100 U
Sulfate as SO4	14808-79-8	250000	6500 J	3400 J	7400 J	10000 U	2500 J	10000 U

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not Analyzed

TABLE 3-2c:
Groundwater Analytical Results - Metals and General Chemistry
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Well ID	CAS Number	NJ-GWIIA	Temp Well	Temp Well	Equipment Blank
Sample Date			12/12/2022	12/12/2022	12/12/2022
Field Sample ID			TEMPWELL-121222	DUP-01-121222	EB-01-121222
Laboratory ID			L2269727-01	L2269727-02	L2269727-03
METALS (ug/L)					
Aluminum	7429-90-5	200	490	471	6.67 J
Antimony	7440-36-0	6	4 U	4 U	4 U
Arsenic	7440-38-2	3	0.3528 J	0.3232 J	0.5 U
Barium	7440-39-3	6000	33.01	33.21	0.5 U
Beryllium	7440-41-7	1	0.5 U	0.5 U	0.5 U
Cadmium	7440-43-9	4	0.0894 J	0.0847 J	0.2 U
Calcium	7440-70-2	NS	882	894	100 U
Chromium	7440-47-3	70	1.248	1.225	1 U
Cobalt	7440-48-4	100	0.6832	0.7217	0.5 U
Copper	7440-50-8	1300	1.435	1.407	1 U
Iron	7439-89-6	300	642	634	50 U
Lead	7439-92-1	5	1 U	1 U	1 U
Magnesium	7439-95-4	NS	411	419	70 U
Manganese	7439-96-5	50	29.77	30.84	1 U
Mercury	7439-97-6	2	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	100	2.138	2.453	2 U
Potassium	7440-09-7	NS	271	250	100 U
Selenium	7782-49-2	40	5 U	5 U	5 U
Silver	7440-22-4	40	0.4 U	0.4 U	0.4 U
Sodium	7440-23-5	50000	2,480	2,520	100 U
Thallium	7440-28-0	2	1 U	1 U	1 U
Vanadium	7440-62-2	NS	5 U	5 U	5 U
Zinc	7440-66-6	2000	8.859 J	9.299 J	10 U
General Chemistry (ug/L)					
Total Alkalinity	ALK	NS	Not Detected	Not Detected	Not Detected
BOD, 5 Day	E1640606	NS	Not Detected	Not Detected	Not Detected
Chemical Oxygen Demand	COD	NS	20000 U	12,000 J	9,200 J
Chloride	16887-00-6	250000	4,400	4,400	1,000 U
Total Dissolved Solids	TDS	500000	20,000	13,000 U	10,000 U
Ammonia as N	7664-41-7	3000	137	93.7	75 U
Nitrate as N	14797-55-8	10000	68.1 J	69 J	100 U
Sulfate as SO4	14808-79-8	250000	3,400 J	4,100 J	1,500 J

Notes:
NJ-GWIIA: NJ - New Jersey Groundwater Quality Class IIA Criteria Criteria per Ground Water Quality Standards amended June 1, 2020.
Results in exceedance of the Groundwater Quality Criteria are highlighted blue.
NA - Not Analyzed

TABLE 3-2d:
Groundwater Analytical Results - Endocrine Disrupting Chemicals
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

Geosyntec Consultants

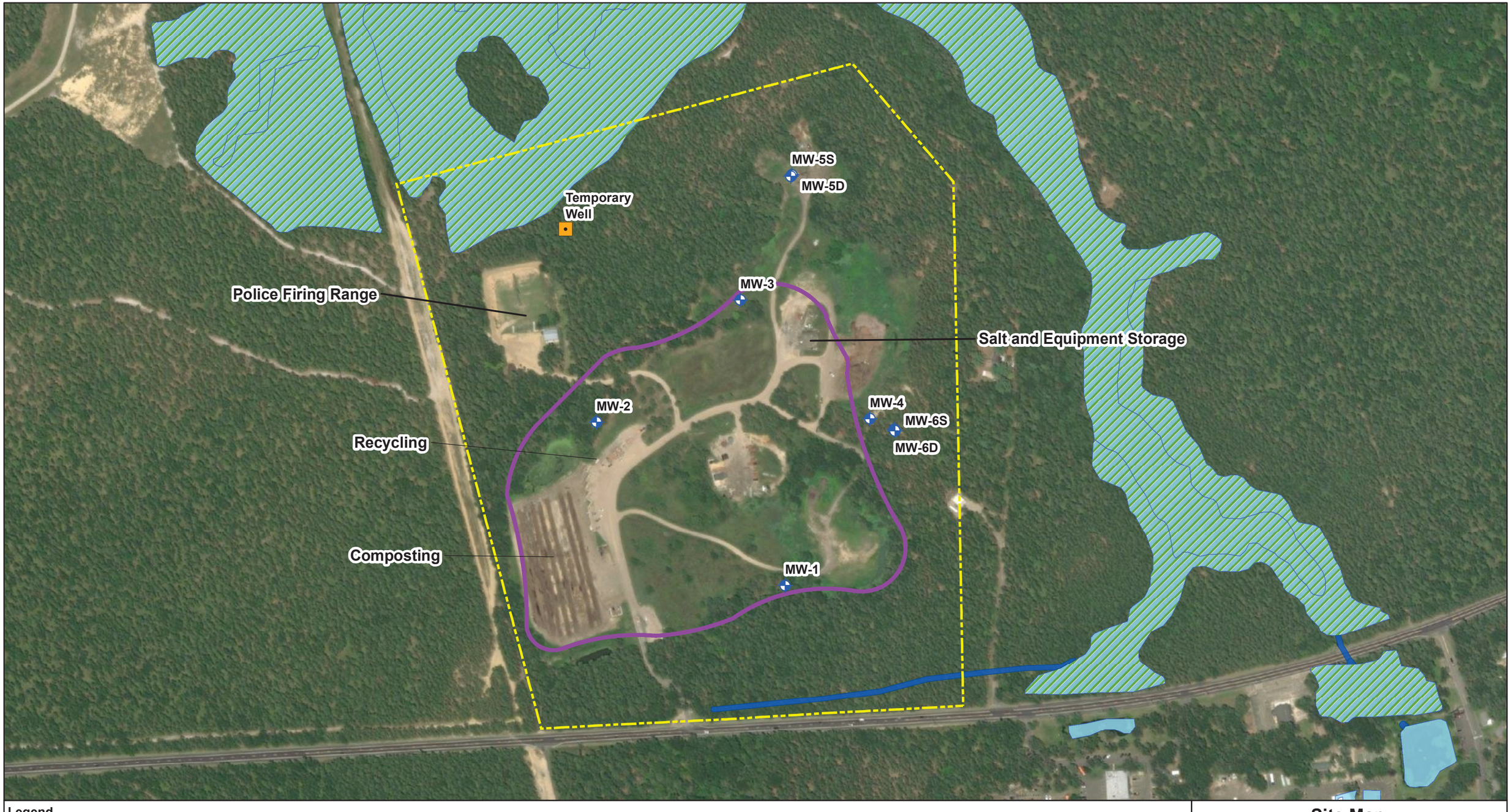
Well ID	CAS Number	NJ-GWIIA	MW-6S	MW-6D
Sample Date			10/15/2021	10/15/2021
Field Sample ID			MW-6S-10152021	MW-6D-10152021
Laboratory ID			L35873-1	L35873-2
Endocrine Disrupting Chemicals (ug/L)				
Bisphenol E	2081-08-5	NS	ND	ND
Bisphenol F	620-92-8	NS	ND	ND
Bisphenol A	80-05-7	NS	0.00255	ND
Bisphenol AF	1478-61-1	NS	ND	ND
Bisphenol B	77-40-7	NS	ND	ND
Bisphenol S	80-09-1	NS	0.00248	0.00149
17 alpha-Dihydroequilin	651-55-8	NS	ND	ND
Equilenin	517-09-9	NS	ND	ND
Equilin	474-86-2	NS	ND	ND
17 beta-Estradiol	50-28-2	NS	ND	ND
Estriol	50-27-1	NS	ND	ND
Estrone	53-16-7	NS	ND	ND
17 alpha-Ethinyl-Estradiol	57-63-6	NS	ND	ND

Notes:

ND = not detected

NS = no standard

FIGURES



Legend

- Monitoring Well
- Temporary Well (Installed December 12, 2022)
- Site Parcel
- Interpreted Landfill Deposits Boundary
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

Notes:
1. Site Parcel Source: Ocean County, NJ/NJ OpenData
   Interpreted Landfill Deposits Boundary: Maser 2020 Site Hydrogeologic Investigation Report
2. Welands and Water Features: US Fish and Wildlife Service/NWI

N

0 350 Feet

Site Map

Manchester Township Landfill
110 Sam Pitts Road
Manchester Township, New Jersey

Geosyntec consultants

Pennington, NJ | February 2023

Figure 1-1

\\Philly-01\Data\GIS\GISprojects\JR0312 - Manchester Landfill\Projects\Site_Map.mxd 1/31/2023 9:09:22 PM



Legend

- Monitoring Well
- Temporary Well (Installed December 12, 2022)
- Groundwater Elevation Contours (ft amsl)
- (Dashed where infrerred)
- Site Parcel
- Interpreted Landfill Deposits Boundary
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

Notes:
1. Groundwater elevations are in feet above mean sea level (ft amsl).
2. Groundwater elevation contour (dashed where approximate)
3. Groundwater elevations at deep wells MW5D and MW6D not used in contouring.
4. Site Parcel Source: Ocean County, NJ/NJ OpenData
   Interpreted Landfill Deposits Boundary: Maser 2020 Site Hydrogeologic Investigation Report
5. Welands and Water Features: US Fish and Wildlife Service/NWI

N

0 350 Feet

Shallow Aquifer Groundwater Elevations and Contours

Manchester Township Landfill
110 Sam Pitts Road
Manchester Township, New Jersey

Geosyntec consultants

Pennington, NJ | February 2023

Figure 3-1

\\Philly-01\Data\GIS\GISprojects\JR0312 - Manchester Landfill\Projects\Fig 3 - Shallow Aquifer Groundwater Elevations and Contours.mxd 1/31/2023 9:16:55 PM

APPENDIX A

Proposed Scope of Work and Response from Pinelands Commission

Geosyntec consultants

1750 American Boulevard
Suite 200
Pennington, New Jersey 08534
PH 609.895.1400
www.geosyntec.com

14 September 2021

Mr. Edward Wengrowski
Environmental Technologies Coordinator
The Pinelands Commission
PO Box 359
New Lisbon, New Jersey 08064

Subject: Plan for Hydrogeological Evaluation
Manchester Township Landfill
Manchester, New Jersey

Dear Mr. Wengrowski:

Geosyntec Consultants, Inc. (Geosyntec) is providing technical assistance to NextGrid, Inc. (NextGrid) with respect to the construction of a solar power facility on the Manchester Landfill. NextGrid desires to advance the hydrogeological evaluation of the landfill in support of their redevelopment plans.

An initial hydrogeologic investigation was conducted by Maser Consulting, Inc. (Maser) on behalf of Manchester Township and reviewed by the Pinelands Commission (PC). We have reviewed the following documents related to the investigation:

- Site Hydrogeologic Investigation Report by Maser, October 2020;
- Comment letter on the Maser report by the PC, October 29, 2020; and
- Response to PC comments by Maser, November 12, 2020.

The PC comments identified several shortcomings in the initial hydrogeologic investigation. Maser was able to address several of the PC's comments in its response, but other comments will require additional field investigation and submittal of the results to the PC to complete the investigation. Michael Lambert and John Persico of Geosyntec spoke with you on August 17, 2021 and on September 1, 2021 to get further clarification from you on the PC's requirements to complete the hydrogeologic investigation. This letter provides an outline of the investigation that NextGrid plans to conduct to satisfy the PC's concerns.

PROPOSED INVESTIGATION

Installation of Additional Monitoring Wells and Groundwater Sampling

In its Comment 4, the PC noted that proposed upgradient monitoring well MW-2 was located within the landfill, not in an upgradient position, and therefore could not be used to monitor natural groundwater conditions. The PC also noted (Comment 20) that groundwater monitoring would be required at potential ecological receptors (wetlands and surface waters) that might be impacted by landfill leachate. During our conversation on August 17, 2021, you indicated that deeper wells should be installed to monitor potential constituent flow paths in deeper groundwater. In response to these comments, NextGrid proposes to install two new monitoring well pairs as follows:

- Wells MW-5S and MW-5D will be installed northwest of the landfill to serve as upgradient wells monitoring background conditions; and
- Wells MW-6S and MW-6D will be installed southeast (downgradient) of the landfill to monitor potential leachate between the landfill and the downgradient wetlands.

The proposed well locations are shown in Figure 1. Prior to well installation, a visual survey of the site will be conducted to confirm these locations. If any significant change is required, the PC will be notified.

The wells will be installed by a New Jersey-licensed well driller. The wells will be constructed of 2-inch diameter PVC and will have 10-foot screens. Each shallow well (MW-5S and MW-6S) will be set approximately 8 feet below the water table. The deep wells (MW-5D and MW-6D) will be set approximately 20 feet deeper than the adjacent shallow well. After installation, the wells will be developed by pumping and surging until the discharge water is clear, or 10 well volumes, whichever is first.

After installation, the location and elevation of each new well will be surveyed by a New Jersey licensed surveyor, who will complete Form B location certifications for each well.

Groundwater samples will be collected from all eight (four existing and four proposed) monitoring wells. Prior to sampling, the depth to water will be measured at each well using an electronic water-level indicator. These data will be used to develop a groundwater elevation contour map.

Groundwater samples collected at the four existing monitoring wells within the landfill by Maser in 2020 were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs), and for Target Analyte List (TAL) metals. Given their locations, these wells monitor the areas where

discharges from the landfill are most likely to be observed. Maser reported that VOCs, pesticides, and PCBs were absent; therefore, additional analyses of these constituents are not necessary. Certain SVOCs and metals were detected in the groundwater samples; therefore, the proposed samples will be analyzed for SVOCs and metals.

PC Comments 4 and 20 indicate that groundwater samples should be analyzed for landfill leachate parameters. Therefore, groundwater samples will be analyzed for the following constituents:

- Ammonia;
- Nitrate;
- Chloride;
- Sulfate;
- Total dissolved solids;
- Biological oxygen demand;
- Chemical oxygen demand; and
- Alkalinity.

In addition, the field parameters conductivity and pH will be measured using field instruments during sampling.

PC Comment 16 indicates that groundwater samples should be analyzed for per- and polyfluoroalkyl substances (PFAS) and endocrine disrupting compounds (EDCs). The New Jersey Department of Environmental Protection (NJDEP) recommends EPA modified Method 537 with a list of 12 PFAS compounds to be reported. NJDEP does not have a list of recommended EDCs to analyze. NextGrid proposes to analyze the following common EDCs:

- Estrogen-like compounds; and
- Bisphenol A.

These constituents will be analyzed in samples collected at proposed downgradient monitoring wells MW-6S and MW-6D. Also note that phthalates are considered EDCs and will be included in the SVOC analysis specified above.

Appropriate quality assurance samples will be obtained during sampling. All samples will be collected using procedures in the New Jersey Field Sampling Procedures Manual and will be analyzed by a New Jersey-certified laboratory (note that New Jersey does not certify laboratories for analysis of estrogen-like compounds or bisphenol-A in environmental samples).

Surface Water Sampling

PC Comment 20 indicates that surface water samples should be collected in potential ecological receptors and analyzed for landfill leachate constituents. Therefore, NextGrid proposes to collect surface water samples at four locations, including:

- two locations in the wetlands area northwest (upgradient) of the landfill; and
- two locations in the wetlands area southeast (downgradient) of the landfill.

The proposed surface water sampling locations are shown in Figure 1. Appropriate quality assurance samples will be obtained during sampling. All samples will be collected using procedures in the New Jersey Field Sampling Procedures Manual and will be analyzed by a New Jersey-certified laboratory. The samples will be analyzed for SVOCs, metals, landfill leachate parameters, and PFAS as discussed above.

Submittal of Technical Memorandum

When the analytical results are available, the results from the downgradient locations will be compared to the upgradient locations to evaluate whether landfill leachate may have impacted the downgradient locations. A technical memorandum will be prepared that summarizes the field procedures, groundwater flow, and analytical results. The technical memorandum will include figures that the PC requested in its comment letter, including geologic cross-sections and groundwater contours. If needed, the report will propose additional investigation tasks.

CONCLUSION

We believe that when completed, the proposed investigation will provide a complete basis for the hydrogeologic evaluation in support of the development of the landfill as a solar facility. If you believe any other investigatory work is needed, please identify that as soon as possible so we can move the project forward.

We currently have a driller scheduled to begin well installation on September 27, 2021. NextGrid plans to provide a technical memorandum with the results to you within 75 to 90 days after the wells are installed.

Please contact me at 609.903.6227 if you have any questions.

Sincerely,



John L. Persico, P.G.
Principal

Attachment: Figure 1 – Site Map with Proposed Sampling Locations

Copies:
Aaron Culig, NextGen
Michael Lambert, Geosyntec



Legend

- Existing Monitoring Well Location
- Proposed Monitoring Well Location
- Proposed Surface Water Sampling Location
- Site Parcel
- Interpreted Landfill Deposits Boundary
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

N

0 350 Feet

Site Map with Proposed Sampling Locations

Manchester Township Landfill
110 Sam Pitts Road
Manchester Township, New Jersey

Geosyntec consultants

Pennington, NJ | August 2021

Figure 1

P:\GIS\GISprojects\JR0312 - Manchester Landfill\Projects\Site_Map_with_Proposed_Sampling_Locations.mxd 8/25/2021 9:28:39 AM

Christina Pump

From: Wengrowski, Ed [PINELANDS] <Ed.Wengrowski@pinelands.nj.gov>
Sent: Tuesday, September 14, 2021 4:14 PM
To: John Persico
Cc: Michael Lambert; Christina Pump; Mike Nolden; Aaron Culig; Daniel S; Dennis G. Moran; AppInfo, PC [PINELANDS]
Subject: Re: Manchester Landfill PC app no. 1981-2232.001

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hello John,
Thank you for providing your scope of work letter dated Sept. 14, 2021 for Geosyntec's Manchester Landfill hydrological assessment.

I've summarized below the issues that we reviewed in our telephone conference held earlier today.

1. Confirmation that the shallow monitoring well screens will be set such that the top of screen is 2 feet above the water table surface and will extend 8 feet into the saturated zone.
2. Confirmation that sampling will include 1,5 Dioxane.
3. Confirmation that chemical parameters for which there is currently no NJDEP lab certification (e.g., EDC's Bisphenol A, phthalates (?)) will be performed using analytical methods that are in conformance with methods developed by USEPA, published in "Standard Methods for Water and Wastewater Analysis", developed by USGS, or are approved by equivalent authoritative sources.
4. Confirmation that surface water sample locations shown on Fig. 1 (Site Map with Proposed Sampling Locations, dated Aug. 2021) are proposed to be sampled if found to contain surface water on the sample collection date.
5. Revise Fig. 1 to include groundwater contours to clearly demonstrate that proposed MW-6D and MW-6 are down gradient and not side gradient of the landfill. Groundwater contours presented by Maser Consulting (see Fig 6 Water Table Contours Dec. 5, 2019 in Maser's Oct 2020 Report) suggest that these proposed wells may not be ideally situated to characterize groundwater downgradient of the landfill. You indicted that you would further evaluate the accuracy of the plotted ground water and adjust proposed well locations if and as necessary.
6. Cautioned that the Commission, by regulation (see N.J.A.C 7:50-6.75(c)2) will require that public health concerns related to potable wells down gradient of the landfill are evaluated.

Please reach out with any questions or concern.

Thank you.

Ed Wengrowski, REHS
Environmental Technologies Coordinator
NJ Pineland Commission

From: John Persico <JPersico@Geosyntec.com>
Sent: Tuesday, September 14, 2021 11:17 AM
To: Wengrowski, Ed [PINELANDS] <Ed.Wengrowski@pinelands.nj.gov>
Cc: Michael Lambert <MLambert@Geosyntec.com>; Christina Pump <CPump@Geosyntec.com>; Mike Nolden <MNolden@Geosyntec.com>; Aaron Culig <aaron@nextgrid.com>; Daniel S <daniel@nextgrid.com>; Dennis G. Moran <DGMoran@tigheBond.com>
Subject: [EXTERNAL] Manchester Landfill

Good morning, Ed. A letter describing our planned sampling at the Manchester Landfill is attached. Please let us know if you have any questions.

John L. Persico, P.G. (PA)
Principal
609.903.6227

Geosyntec consultants

engineers | scientists | innovators

APPENDIX B

Soil Boring Log, Well Logs, and Form Bs

Geosyntec consultants

BORING LOG

BORING NO. MW-5D
SHEET ____ OF ____

DRILLING CO.: TPI Environmental	Status:	SITE: Manchester Landfill	Borehole Location Sketch Map
METHOD & TOOLS: Hand Auger / Direct Push	☐ Drilled	PROJECT NO.: 20.JR0312	
RIG: BOREHOLE DIAMETER:	☐ Logged	N: E:	
CORE DIAMETER: DRILLER: Justin	☐ MW Installed	GEOLOGIST: C. Pomp	
GROUND ELEV.: ☐ Surveyed ☐ Estimated		DATE: 9/27/21	
SURFACE CONDITIONS:			

Depth (ft. bgs)	Rec. % (Dr./Rec.)	Lithologic Description	PID (ppm)	Sample ID	Comments
		White, SAND, dry, loose	0.5 ft 0.1		
	Hand Auger		1.5 ft		
0-5			2.5 ft		
			3.5 ft		
			4.5 ft		
		0-1.8 White SAND fine, dry, loose	5.5 ft 0.1		
		1.8-5.0 Tan SAND with little silt, fine, dry, loose	0.1		
5-10	5/5		6.5 ft 0.1		
			0.1		
			7.5 ft 0.1		
			0.1		
			8.5 ft 0.1		
			0.1		
			9.5 ft 0.1		
		0-0.5 Black-tan SAND, fine, dry, loose	10.5 ft 0.1		
		0.5-1.3 Tan SAND, with little silt, fine, dry, loose	0.1		
10-15	4/5		11.5 ft 0.1		
		1.3-2.0 Tan SAND with little clay, moist, dense	0.1		
			12.5 ft 0.1		
		2.0-3.5 Tan SAND, coarse, moist, loose	0.1		
		3.5-4.0 SAA but red	13.5 ft 0.1		
			0.1		
			14.5 ft		
		0-2.5 SAA	15.5 ft 0.0		
		2.5-4.5 Tan SAND, with little silt, moist, loose, coarse grades to fine with depth	0.0		
	4.5/5		16.5 ft 0		
15-20			0		
			17.5 ft 0		
			0		
			18.5 ft 0		
			0		
			19.5 ft 0		

Notes: Running Sand encountered at 4.5' bgs. Could not advance DP further. End log

Geosyntec consultants

BORING LOG

BORING NO. MW-5D
SHEET 2 OF ____

Depth (ft. bgs)	Rec. % (Dr./Rec.)	Lithologic Description	PID (ppm)	Sample ID	Comments
		0-1.5 SAA but white 1.5-3.9 but tan	20.5 0		
	3.9/5		21.5 0		
20-25			22.5 0		
			23.5 0		
			24.5		
		0-3.4 - SAA but wet	25.5 0		
	3.4/5		26.5 0		
25-30			27.5 0		
			28.5 0		
			29.5		
		SAA - extremely wet	30.5 0		
	5/5		31.5 0		
30-35			32.5 0		
			33.5 0		
			34.5 0		
		0-2 - SAA - Coarse grained 2.0-5 Tan CLAY with little sand, wet, plastic	35.5 0		
	5/5		36.5 0		
35-40			37.5 0		
			38.5 0		
			39.5 0		
		0-5 Tan SAND, extremely wet, coarse grained	40.5 0		
	5/5		41.5 0		
40-45			42.5 0		
			43.5 0		
			44.5 0		

Geosyntec consultants

BORING LOG

TEMPWELL-
BORING NO. 121222
SHEET 1 OF

DRILLING CO.: Enviroprobe	Status:	SITE: Manchester LF	Borehole Location Sketch Map
METHOD & TOOLS: Hand auger to 5ft / DPT rig	☐ Drilled	PROJECT NO.: JR0312	
RIG: Geoprobe 5400 Hammer BOREHOLE DIAMETER: 2 in	☐ Logged	N: 411640.44 E: 517862.40	
CORE DIAMETER: 2 in DRILLER: S. Folcher	☒ MW Installed (Temporary)	GEOLOGIST: C. Kellner	
GROUND ELEV.: N/A ☐ Surveyed ☐ Estimated		DATE: 12/12/22	
SURFACE CONDITIONS: Sand and fallen pine needles			

Depth (ft. bgs)	Rec. % (Dr./Rec.)	Lithologic Description	PID (ppm)	Sample ID	Comments
0-12		0-12' yellow-tan, wet*, loose fine to coarse SAND, no odor, trace clay *Sand is damp 0-5 ft and saturated 5-12 ft bgs. NO odors or visual signs of contamination. Water Depth measured at 5.55 ft btc at 10.25 DTB = 12.35 ft btc Height of PVC stick-up above ground surface = 0.73 ft	0.5 ft 0 0 1.5 ft 0 0 2.5 ft 0 0 3.5 ft 0 0 4.5 ft 0 0 5.5 ft 0 0 6.5 ft 0 0 7.5 ft 0 0 8.5 ft 0 0 9.5 ft 0 0 10.5 ft 0 0 11.5 ft 0 0 12.5 ft 13.5 ft 14.5 ft 15.5 ft 16.5 ft 17.5 ft 18.5 ft 19.5 ft		

Notes: 1" diameter PVC temporary well installed in borehole. Screened from 2-12 ft bgs.

WELL CONSTRUCTION

Geosyntec
consultants
289 Great Road
Acton, Massachusetts, 01720
(978) 263-9588 Fax (978) 263-9594

Well ID MW-6D
Site Location Manchester, NJ
Project Name Manchester Landfill
Field Personnel C. Pump
Project Number JR0312
Recorded By CP

Permit Number
Installation Date(s) 9/29/21
Drilling Method Hollow Stem Auger
Borehole Diameter 6"
Drilling Contractor TPI Environmental
Driller Justin
Drilling Fluid N/A
Fluid Loss During Drilling N/A

Materials Used

Riser Pipe: Diameter 2.0 inches
Construction
☑ PVC schedule 40
☐ Stainless Steel
☐ Other

Slotted Area: Length 10'
Diameter 2"
Slot Size 10
Construction
☑ PVC schedule 40
☐ Stainless Steel
☐ Other
Silt Trap Used ☐ Yes ☑ No

Bottom End Cap: ☑ Male ☐ Female ☐ Slip
☑ PVC
☐ Stainless Steel
☐ Other

Top Cap: ☐ Male ☐ Female ☐ Slip ☑ Plug
☐ PVC
☐ Stainless Steel
☐ Other

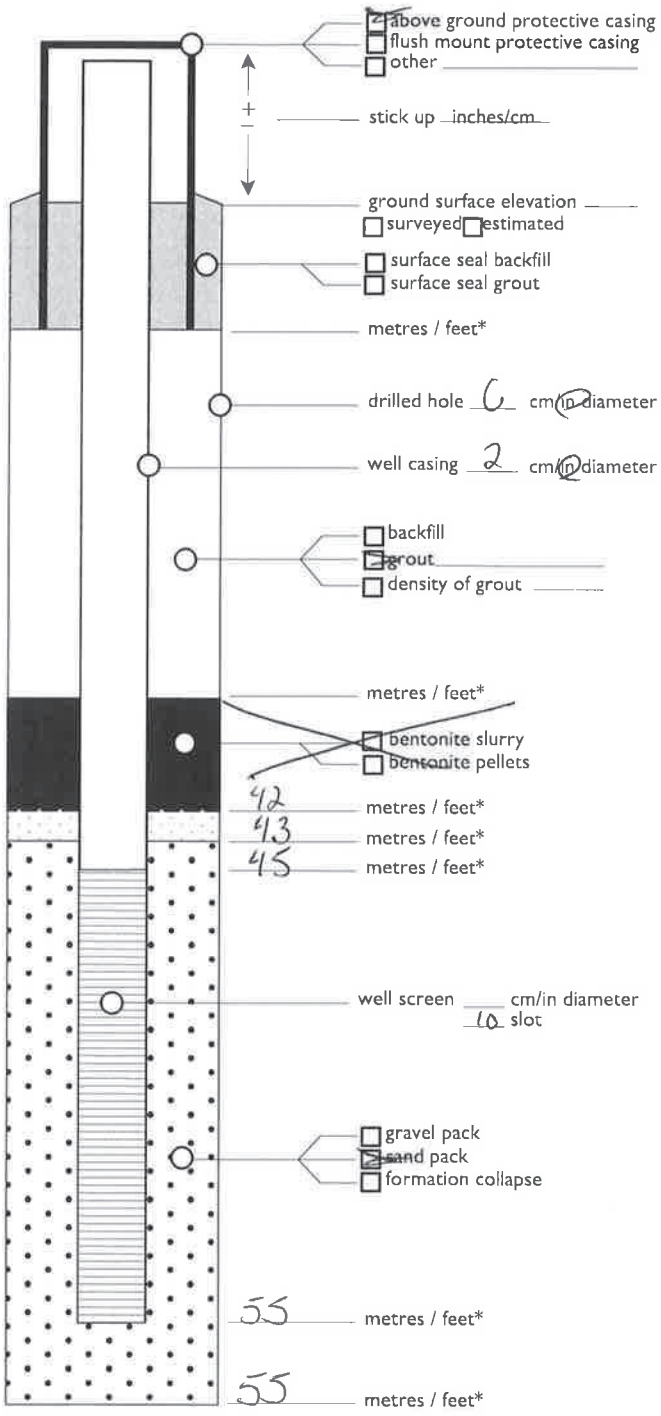
Protective Casing: Length ____ ft/m
Diameter ____
Construction
☐ Cast Aluminum
☐ Cast Steel
☐ Other

Casing Installation: Length ____ metres/feet
Diameter ____ cm/inches
Material Steel

Sandpack:
Coarse Sand: 7 bags of ___ kg/lb per bag Size #1
Fine Sand: 1 bags of ___ kg/lb per bag Size #0

Seal:
Bentonite Pellets: 4 bags of ___ kg/lb per bag Type ____
Bentonite Slurry: ___ bags of ___ kg/lb per bag Type ____

Grout:
Cement: 1 bags of ___ kg/lb per bag Type ____
Bentonite: ___ bags of ___ kg/lb per bag Type ____



Measuring Point is Top of Well Casing
Unless Otherwise Noted

* Depth Below Ground Surface

WELL CONSTRUCTION

Geosyntec consultants
289 Great Road
Acton, Massachusetts, 01720
(978) 263-9588 Fax (978) 263-9594

Well ID MW-605 Site Location Manchester, NJ
Project Name Manchester Landfill Field Personnel C. Pump
Project Number JR0312 Recorded By CP

Permit Number
Installation Date(s) 9/29/21
Drilling Method Hollow Stem Auger
Borehole Diameter 6"
Drilling Contractor TPI Environmental
Driller Justin
Drilling Fluid N/A
Fluid Loss During Drilling N/A

Materials Used

Riser Pipe: Diameter 2.0 inches
Construction
- [x] PVC schedule 40
- [ ] Stainless Steel
- [ ] Other

Slotted Area: Length 10'
Diameter 2"
Slot Size 10
Construction
- [x] PVC schedule 40
- [ ] Stainless Steel
- [ ] Other

Silt Trap Used [ ] Yes [x] No

Bottom End Cap: [x] Male [ ] Female [ ] Slip
- [x] PVC
- [ ] Stainless Steel
- [ ] Other

Top Cap: [ ] Male [ ] Female [ ] Slip [x] Plug
- [ ] PVC
- [ ] Stainless Steel
- [ ] Other

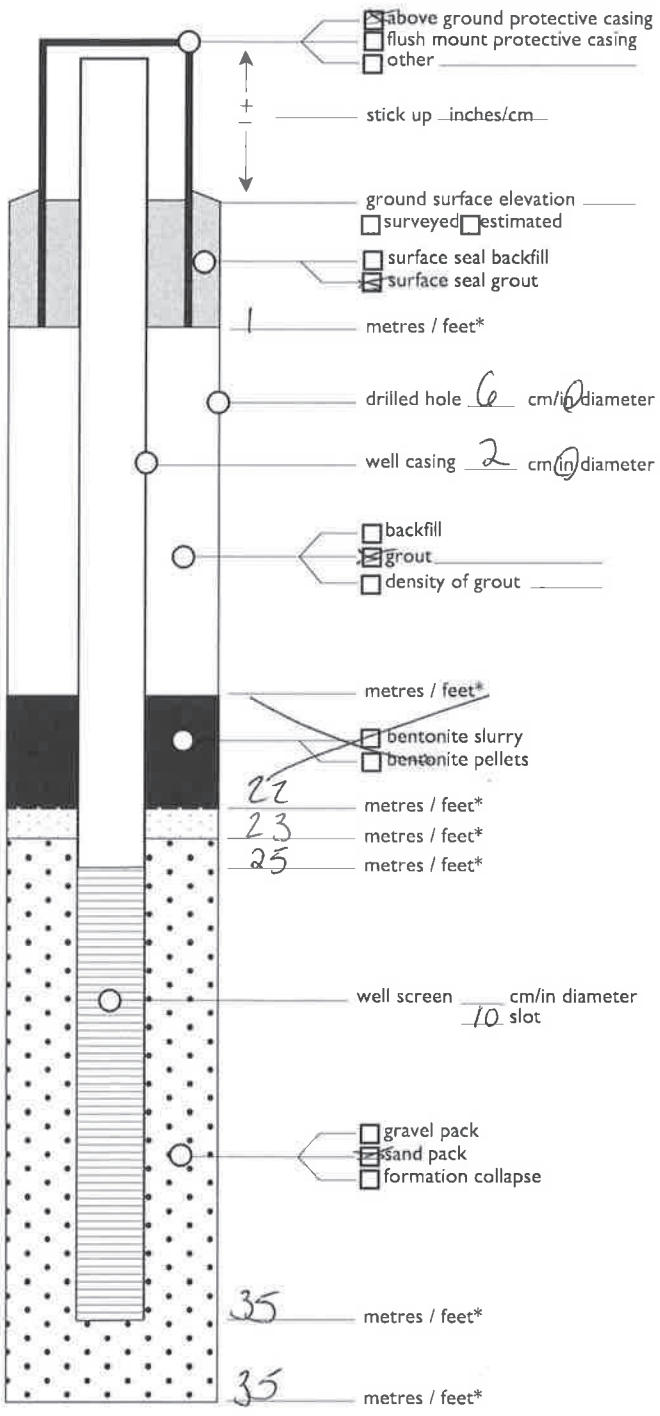
Protective Casing: Length ____ ft/m
Diameter ____
Construction
- [ ] Cast Aluminum
- [x] Cast Steel
- [ ] Other

Casing Installation: Length ____ metres/feet
Diameter ____ cm/inches
Material ____

Sandpack:
Coarse Sand: 7 bags of ___ kg/lb per bag Size 01
Fine Sand: 1 bags of ___ kg/lb per bag Size 00

Seal:
Bentonite Pellets: 1 bags of ___ kg/lb per bag Type ____
Bentonite Slurry: ___ bags of ___ kg/lb per bag Type ____

Grout:
Cement: 1 bags of ___ kg/lb per bag Type ____
Bentonite: ___ bags of ___ kg/lb per bag Type ____



Measuring Point is Top of Well Casing Unless Otherwise Noted

* Depth Below Ground Surface

WELL CONSTRUCTION

Geosyntec
consultants
289 Great Road
Acton, Massachusetts, 01720
(978) 263-9588 Fax (978) 263-9594

Well ID MW-55 Site Location Manchester, NJ
Project Name Manchester Landfill Field Personnel C. Pump
Project Number JR0312 Recorded By CP

Permit Number
Installation Date(s) 9/27/21
Drilling Method Hollow Stem Auger
Borehole Diameter 6"
Drilling Contractor TPI Environmental
Driller Justin
Drilling Fluid
Fluid Loss During Drilling

Materials Used

Riser Pipe: Diameter 2.0 inches
Construction
- [x] PVC schedule 40
- [ ] Stainless Steel
- [ ] Other

Slotted Area: Length 10'
Diameter 2"
Slot Size .010
Construction
- [x] PVC schedule
- [ ] Stainless Steel
- [ ] Other

Silt Trap Used [ ] Yes [ ] No

Bottom End Cap: [x] Male [ ] Female [ ] Slip
- [x] PVC
- [ ] Stainless Steel
- [ ] Other

Top Cap: [ ] Male [ ] Female [ ] Slip [x] Plug
- [ ] PVC
- [ ] Stainless Steel
- [ ] Other

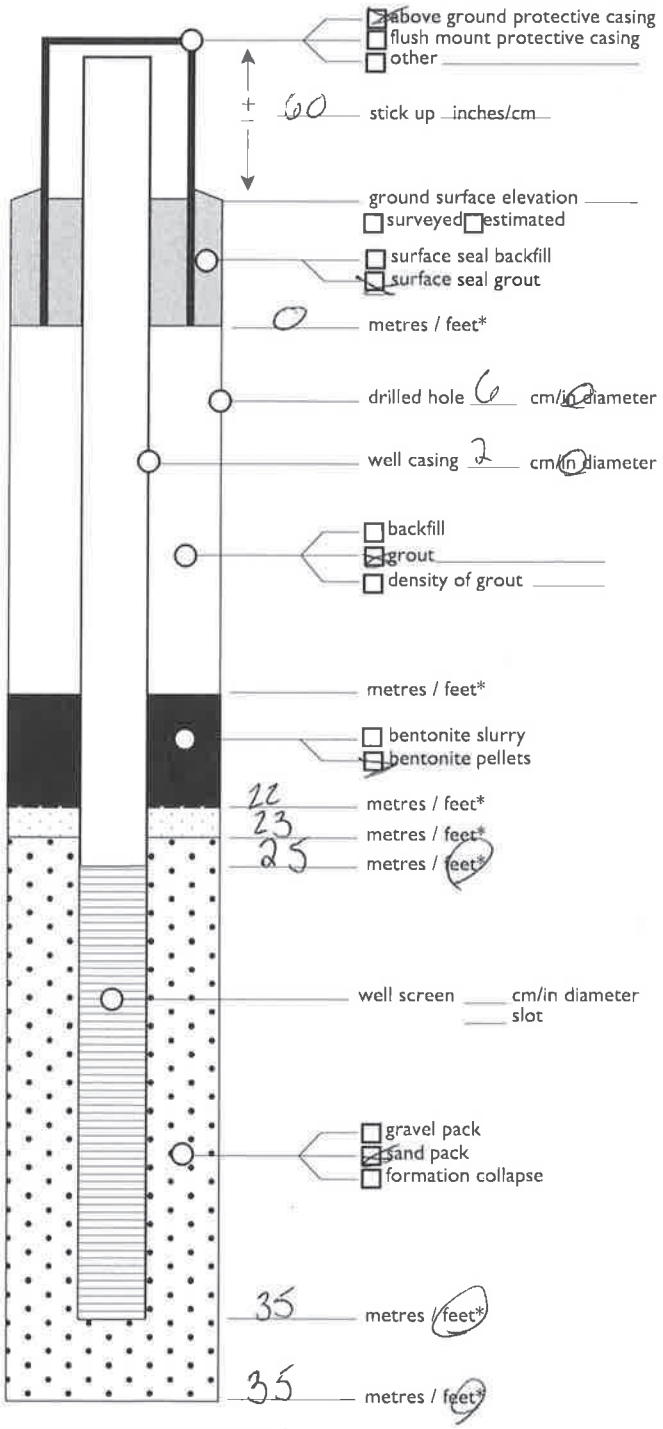
Protective Casing: Length 5 ft/m (2' in ground, 3' out)
Diameter 4"
Construction
- [ ] Cast Aluminum
- [x] Cast Steel
- [ ] Other

Casing Installation: Length metres/feet
Diameter cm/inches
Material

Sandpack:
Coarse Sand: 2 bags of kg/lb per bag Size 01
Fine Sand: 1 bags of kg/lb per bag Size 00

Seal:
Bentonite Pellets: bags of kg/lb per bag Type
Bentonite Slurry: bags of kg/lb per bag Type

Grout:
Cement: 2 bags of kg/lb per bag Type
Bentonite: 1/2 bags of kg/lb per bag Type



Measuring Point is Top of Well Casing Unless Otherwise Noted

* Depth Below Ground Surface

initial dtw: 27' 13:30

11' of water

WELL CONSTRUCTION

Geosyntec consultants
289 Great Road
Acton, Massachusetts, 01720
(978) 263-9588 Fax (978) 263-9594

Well ID MW-5D
Site Location Manchester, NJ
Project Name Manchester Landfill
Field Personnel C. Pump
Project Number JR0362
Recorded By CP

Permit Number
Installation Date(s) 9/27-9/28/21
Drilling Method Hollow Stem Auger
Borehole Diameter 6"
Drilling Contractor TPI Environmental
Driller Justin
Drilling Fluid n/a
Fluid Loss During Drilling n/a

Materials Used

Riser Pipe: Diameter 2.0 inches
Construction
- [x] PVC schedule 40
- [ ] Stainless Steel
- [ ] Other

Slotted Area: Length 10'
Diameter 2"
Slot Size 10
Construction
- [x] PVC schedule 40
- [ ] Stainless Steel
- [ ] Other

Silt Trap Used [ ] Yes [ ] No

Bottom End Cap: [x] Male [ ] Female [ ] Slip
- [x] PVC
- [ ] Stainless Steel
- [ ] Other

Top Cap: [ ] Male [ ] Female [ ] Slip [x] Plug
- [ ] PVC
- [ ] Stainless Steel
- [ ] Other

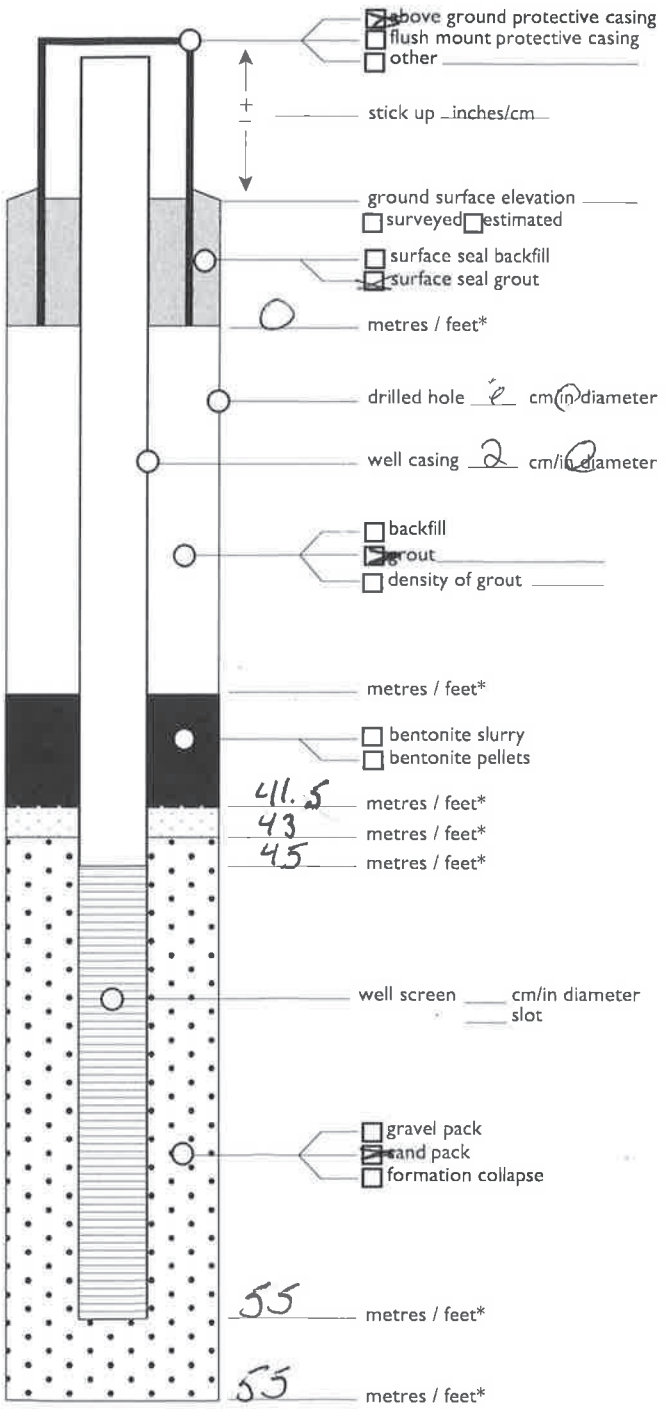
Protective Casing: Length ____ ft/m
Diameter ____
Construction
- [ ] Cast Aluminum
- [ ] Cast Steel
- [ ] Other

Casing Installation: Length ____ metres/feet
Diameter ____ cm/inches
Material ____

Sandpack:
Coarse Sand: 2 bags of ___ kg/lb per bag Size 01
Fine Sand: 1 bags of ___ kg/lb per bag Size 00

Seal:
Bentonite Pellets: ___ bags of ___ kg/lb per bag Type ____
Bentonite Slurry: ___ bags of ___ kg/lb per bag Type ____

Grout:
Cement: 13 bags of ___ kg/lb per bag Type ____
Bentonite: 13 bags of ___ kg/lb per bag Type ____



Measuring Point is Top of Well Casing Unless Otherwise Noted

* Depth Below Ground Surface

DPK Consuling, LLC
220 Old New Brunswick Road Suite-201 Piscataway, New Jersey 08854
Telephone: 732.764.0100 Fax: 732.764.0990 Email: JHeiser@dpkconsulting.net

For: GEOSYNTEC CONSULTANTS
Site: 110 SAM PITTS ROAD, MANCHESTER TOWNSHIP, NEW JERSEY

Project #21-9380 November 1, 2021
Horizontal Datum: NJ STATE PLANE COORDINATE GRID NAD 83
Vertical Datum: NAVD 88
BENCHMARK: NJOC CORS ARP ELEV=81.52' (NAVD 1988 GEOID 12A).
Additional Comments:

	ELEVATIONS			COORDINATES			
MONITORING WELLS	GROUND	RISERS	PVC	NORTHING	EASTING	LATITUDE (N)	LONGITUDE (W)
MW-3	158.86'	161.62'	160.43'	411156.73	518391.40	39°57'43.88"	74°24'22.64"
MW-4	161.76'	165.31'	164.95'	410708.93	518879.76	39°57'39.45"	74°24'16.37"
MW-5D	160.36'	164.71'	164.43'	411624.38	518581.47	39°57'48.50"	74°24'20.19"
MW-5S	160.48'	164.20'	163.90'	411628.41	518585.55	39°57'48.54"	74°24'20.14"
MW-6D	162.80'	166.16'	165.83'	410662.83	518975.03	39°57'39.00"	74°24'15.15"
MW-6S	162.64'	166.15'	165.78'	410668.35	518972.61	39°57'39.05"	74°24'15.18"

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name:

List all AKAs:

Street Address: 110 SAM PITTS ROAD

Municipality: MANCHESTER TOWNSHIP (Township, Borough or City)

County: OCEAN Zip Code: 08759

Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner
2. Well Location (Street Address)
3. Well Location (Municipal Block and Lot) Block# Lot #

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): 32-11276
2. Site Well Number (As shown on application or plans): MW-3
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39°57'43.88" Longitude: West 74°24'22.64"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 411157 East 518391
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 160.43'
   Elevation Top of Outer casing: 161.62' RISER Elevation of ground: 158.86'
   Check one: ☒ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   BENCHMARK: NJOC CORS ARP
   ELEV=81.52' (NAVD 1988 GEOID 12A).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

SEAL

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Professional Land Surveyor's Signature: Date 11/01/2021

Surveyor's Name: James J. Heiser License Number: 24GS04331100

Firm Name: DPK Consulting, LLC Certificate of Authorization #: 24GA28042200

Mailing Address 220 Old New Brunswick Road Suite 201

City/Town: Piscataway State New Jersey Zip Code: 08854

Phone Number 732.764.0100 Ext.: Fax: 732.764.0990

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name:

List all AKAs:

Street Address: 110 SAM PITTS ROAD

Municipality: MANCHESTER TOWNSHIP (Township, Borough or City)

County: OCEAN Zip Code: 08759

Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner
2. Well Location (Street Address)
3. Well Location (Municipal Block and Lot) Block# Lot #

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):
2. Site Well Number (As shown on application or plans): MW-4
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39°57'39.45" Longitude: West 74°24'16.37"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 410709 East 518880
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 164.95'
   Elevation Top of Outer casing: 165.31' RISER Elevation of ground: 161.76'
   Check one: ☒ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   BENCHMARK: NJOC CORS ARP
   ELEV=81.52' (NAVD 1988 GEOID 12A).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

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Professional Land Surveyor's Signature: Date 11/01/2021

Surveyor's Name: James J. Heiser License Number: 24GS04331100

Firm Name: DPK Consulting, LLC Certificate of Authorization #: 24GA28042200

Mailing Address 220 Old New Brunswick Road Suite 201

City/Town: Piscataway State New Jersey Zip Code: 08854

Phone Number 732.764.0100 Ext.: Fax: 732.764.0990

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name:

List all AKAs:

Street Address: 110 SAM PITTS ROAD

Municipality: MANCHESTER TOWNSHIP (Township, Borough or City)

County: OCEAN Zip Code: 08759

Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner
2. Well Location (Street Address)
3. Well Location (Municipal Block and Lot) Block# Lot #

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):
2. Site Well Number (As shown on application or plans): MW-5D
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39°57'48.50" Longitude: West 74°24'20.19"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 411624 East 518581
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 164.43'
   Elevation Top of Outer casing: 164.71' RISER Elevation of ground: 160.36'
   Check one: ☒ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   BENCHMARK: NJOC CORS ARP
   ELEV=81.52' (NAVD 1988 GEOID 12A).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: Date 11/01/2021

Surveyor's Name: James J. Heiser License Number: 24GS04331100

Firm Name: DPK Consulting, LLC Certificate of Authorization #: 24GA28042200

Mailing Address 220 Old New Brunswick Road Suite 201

City/Town: Piscataway State New Jersey Zip Code: 08854

Phone Number 732.764.0100 Ext.: Fax: 732.764.0990

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name:

List all AKAs:

Street Address: 110 SAM PITTS ROAD

Municipality: MANCHESTER TOWNSHIP (Township, Borough or City)

County: OCEAN Zip Code: 08759

Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner
2. Well Location (Street Address)
3. Well Location (Municipal Block and Lot) Block# Lot #

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):
2. Site Well Number (As shown on application or plans): MW-5S
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39°57'48.54" Longitude: West 74°24'20.14"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 411628 East 518586
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 163.90'
   Elevation Top of Outer casing: 164.20' RISER Elevation of ground: 160.48'
   Check one: ☒ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   BENCHMARK: NJOC CORS ARP
   ELEV=81.52' (NAVD 1988 GEOID 12A).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

SEAL

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Professional Land Surveyor's Signature: Date 11/01/2021

Surveyor's Name: James J. Heiser License Number: 24GS04331100

Firm Name: DPK Consulting, LLC Certificate of Authorization #: 24GA28042200

Mailing Address 220 Old New Brunswick Road Suite 201

City/Town: Piscataway State New Jersey Zip Code: 08854

Phone Number 732.764.0100 Ext.: Fax: 732.764.0990

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name:

List all AKAs:

Street Address: 110 SAM PITTS ROAD

Municipality: MANCHESTER TOWNSHIP (Township, Borough or City)

County: OCEAN Zip Code: 08759

Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner
2. Well Location (Street Address)
3. Well Location (Municipal Block and Lot) Block# Lot #

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):
2. Site Well Number (As shown on application or plans): MW-6D
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39°57'39.00" Longitude: West 74°24'15.15"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 410663 East 518975
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 165.83'
   Elevation Top of Outer casing: 166.16' RISER Elevation of ground: 162.80'
   Check one: ☒ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   BENCHMARK: NJOC CORS ARP
   ELEV=81.52' (NAVD 1988 GEOID 12A).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

SEAL

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Professional Land Surveyor's Signature: Date 11/01/2021

Surveyor's Name: James J. Heiser License Number: 24GS04331100

Firm Name: DPK Consulting, LLC Certificate of Authorization #: 24GA28042200

Mailing Address 220 Old New Brunswick Road Suite 201

City/Town: Piscataway State New Jersey Zip Code: 08854

Phone Number 732.764.0100 Ext.: Fax: 732.764.0990

New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name:

List all AKAs:

Street Address: 110 SAM PITTS ROAD

Municipality: MANCHESTER TOWNSHIP (Township, Borough or City)

County: OCEAN Zip Code: 08759

Program Interest (PI) Number(s): Case Tracking Number(s):

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner
2. Well Location (Street Address)
3. Well Location (Municipal Block and Lot) Block# Lot #

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):
2. Site Well Number (As shown on application or plans): MW-6S
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
   Latitude: North 39°57'39.05" Longitude: West 74°24'15.18"
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
   North 410668 East 518973
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 165.78'
   Elevation Top of Outer casing: 166.15' RISER Elevation of ground: 162.64'
   Check one: ☒ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
   BENCHMARK: NJOC CORS ARP
   ELEV=81.52' (NAVD 1988 GEOID 12A).
7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

SEAL

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Professional Land Surveyor's Signature: Date 11/01/2021

Surveyor's Name: James J. Heiser License Number: 24GS04331100

Firm Name: DPK Consulting, LLC Certificate of Authorization #: 24GA28042200

Mailing Address 220 Old New Brunswick Road Suite 201

City/Town: Piscataway State New Jersey Zip Code: 08854

Phone Number 732.764.0100 Ext.: Fax: 732.764.0990

APPENDIX C

Purge Logs

SITE NAME Manchester Landfill

MONITORING WELL DEVELOPMENT PURGING & SAMPLING RECORDS

Geosyntec Consultants
1750 American Blvd.
Suite 200
Pennington, NJ 08534
609-895-1400

Geosyntec consultants
engineers | scientists | innovators

Well ID: MW-35
Zone and/or Depth of Pump: 33' top of pump
Project Name:
Sampling Program: Baseline
Date: 10/14/21
Recorded By: CP
Sample ID: MW-35-10142021
Duplicate ID: DUP-01_10142021

Well Diameter: 2"
Total Depth of Well:
Initial Depth to Water: 29.28 Time: 1205
Casing Volume:
Depth to Water after Purging: 29.38 Time: 1320
Method of Purging: low flow bladder
Method of Sampling:
Weather: sun; 80s F

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	temp	pH	specific conductance	D.O	ORP	Turbidity	Water Level	comments
	ft / m	gpm / Lpm	litres / gallons	F (C)	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
1205	33	0.250		Start purging							
1210				15.36	4.22	0.305	9.35	253.6	86.0	29.38	
1215				15.15	4.28	0.303	9.22	262.3	50.1	29.37	
1220				15.10	4.37	0.314	8.75	265.2	39.5	29.38	
1225				15.08	4.44	0.320	8.47	261.9	34.7	29.38	
1230				15.08	4.49	0.326	8.46	261.5	33.0	29.38	
1235				15.05	4.50	0.335	8.30	261.1	25.8	29.38	
1240				15.08	4.52	0.343	8.04	259.2	21.2	29.38	
1245				15.14	4.53	0.350	7.95	257.4	20.1	29.38	
1250			1 gal	15.09	4.54	0.358	7.89	255.8	20.7	29.39	
1255	CP samples as above										

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)
Used YSI and Turbidimeter: A

SITE NAME Manchester Landfill

MONITORING WELL DEVELOPMENT PURGING & SAMPLING RECORDS

Geosyntec Consultants
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Geosyntec consultants
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Well ID: MW-5D
Zone and/or Depth of Pump: 53' top of pump
Project Name:
Sampling Program: Baseline
Date: 10/14/21
Recorded By: CP
Sample ID: MW-5D-10142021
Duplicate ID: MW-5D-10142021 MS/MSD

Well Diameter: 2"
Total Depth of Well: 58.25
Initial Depth to Water: 30.34 Time: 9:32
Casing Volume:
Depth to Water after Purging: 30.58 Time: 1200
Method of Purging: low flow bladder pump
Method of Sampling:
Weather: SUN, 70s F

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	temp	pH	specific conductance	D.O	ORP	Turbidity	Water Level	comments
	ft / m	gpm / Lpm	litres / gallons	F / C	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
	53'										
10:00					Start purging						Start
10:05		0.300			3.34	0.280	10.55	373.9	437	31.54	
10:10		0.250			3.39	0.303	8.94	386.9	186	31.54	
10:15		0.100		15.68	3.49	0.304	8.71	383.7	140	31.55	
10:20		0.200		14.93	3.65	0.302	8.86	380.8	120	30.52	
10:25		0.250		14.53	3.68	0.302	8.98	385.7	49.6	30.53	
10:30		0.250		14.43	3.70	0.302	9.02	386.5	44.4	30.53	
10:35		0.250		14.62	3.74	0.302	9.08	386.3	21.6	30.58	
10:40		0.250		14.55	3.77	0.299	9.12	385.9	23.1		
10:45		0.250		14.64	3.79	0.300	9.18	385.5	18.5		
10:50		0.250		14.68	3.81	0.299	9.24	384.3	16.2	30.58	
10:55				14.63	3.84	0.299	9.26	382.5	9.67	30.58	
11:00				14.54	3.87	0.297	9.27	381.3	8.66	30.58	
11:05			~7 gal	14.60	3.88	0.295	9.30	381.1	8.62	30.59	
11:10	CP	samples	95% above								

CP 10/14/21

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)
Used YSI and Turbidimeter

A

SITE NAME Manchester Landfill

MONITORING WELL DEVELOPMENT PURGING & SAMPLING RECORDS

Geosyntec Consultants
1750 American Blvd.
Suite 200
Pennington, NJ 08534
609-895-1400

Geosyntec consultants
engineers | scientists | innovators

Well ID: MW-65
Zone and/or Depth of Pump: ~32' top of pump
Project Name:
Sampling Program: Baseline
Date: 10/15/21
Recorded By: CP
Sample ID: MW-65-10152021
Duplicate ID: —

Well Diameter: 2"
Total Depth of Well: 38.35
Initial Depth to Water: 29.89 Time: 1155
Casing Volume:
Depth to Water after Purging: Time:
Method of Purging: low flow bladder pump
Method of Sampling:
Weather: SUN, 70s-80s F

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	temp	pH	specific conductance	D.O	ORP	Turbidity	Water Level	comments
	ft / m	gpm / Lpm	litres / gallons	F / C	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
1155	32	0.250			Start	Purging					Water clear +
1200		0.200		14.63	3.30	0.040	7.58	435.8	92.0	30.40	Colorless
1205				14.94	3.33	0.040	7.70	429.3	51.0	30.42	
1210				14.55	3.52	0.040	7.68	420.3	28.3	30.50	
1215				14.75	3.57	0.039	7.64	415.6	21.3	30.53	
1220				14.80	3.63	0.039	7.56	415.0	18.5	30.57	
1225				14.89	3.69	0.039	7.53	412.8	14.6	30.57	
1230				14.74	3.73	0.039	7.47	411.6	11.4	30.57	
1235				15.10	3.78	0.039	7.44	409.1	9.02	30.57	
1240				15.10	3.81	0.039	7.41	407.7	8.20	30.57	
1245	↓	↓	~4	14.91	3.84	0.039	7.41	406.0	7.37	30.57	
1250	CP	Samples	as above								

CP 10/15/21

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)
Used YSI and Turbidimeter A

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Well ID: MW-6D
Zone and/or Depth of Pump: 53' top of pump
Project Name:
Sampling Program: Baseline
Date: 10/15/21
Recorded By: CP
Sample ID: MW-6D-10152021
Duplicate ID: —

Well Diameter: 2"
Total Depth of Well: 58.4
Initial Depth to Water: 30.05 Time: 1007
Casing Volume:
Depth to Water after Purging: 30.12 Time: 1125
Method of Purging: low flow bladder
Method of Sampling:
Weather: SUN, 70s F

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	temp	pH	specific conductance	D.O	ORP	Turbidity	Water Level	comments
	ft / m	gpm / Lpm	litres / gallons	F / C	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
1007	53	0.250			Start purging						water clear + colorless
1010		0.350		14.01	5.13	0.169	7.25	158.2	++++	30.06	water yellow + cloudy
1015		↓		13.49	4.43	0.172	5.03	187.0	786	30.04	30.10
1020		0.250		13.81	4.47	0.178	5.39	192.2	585	30.4	
1025				13.71	4.49	0.186	5.90	204.0	314	30.12	
1030				13.70	4.52	0.190	6.19	215.4	176	30.12	
1035				13.71	4.53	0.198	6.54	223.6	127	30.12	
1040				13.73	4.55	0.199	6.76	233.4	97.7	30.12	
1045			↓	13.70	4.58	0.196	6.85	239.6	84.7	30.12	
1050	↓	↓		13.72	4.61	0.195	6.75	244.7	85.3	30.12	
1055			4.5	13.69	4.63	0.196	6.76	248.6	79.2	30.12	
1100	CP	Samples	as above								

CP 10/15/21

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)
Used YSI and Turbidimeter (A)

SITE NAME

MONITORING WELL DEVELOPMENT PURGING & SAMPLING RECORDS

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Well ID: MW-1
Zone and/or Depth of Pump: 44' top of pump
Project Name: Manchester
Sampling Program:
Date: 10/15/21
Recorded By: SO
Sample ID: MW-1@44' MW-1-10152021
Duplicate ID: —

Well Diameter: 4"
Total Depth of Well:
Initial Depth to Water: 26.65 Time: 10:25
Casing Volume:
Depth to Water after Purging: 29.22 Time: 12:00
Method of Purging:
Method of Sampling:
Weather: 76° Sunny

≈ 5 gallons purged

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	temp	pH	specific conductance	D.O	ORP	Turbidity	Water Level	comments
	@ / m	gpm / Lpm	litres / gallons	F / C	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
	44'										
10:35		.300		Start Purging							Start purge
10:40		.250		13.79	3.56	110	11.93	393.5	1.73	26.92	
10:45		.250		13.71	3.55	108	8.93	393.8	4.66	27.25	
10:50		.250		13.77	3.65	107	8.28	396.2	1.32	27.50	
10:55		.250		13.81	3.83	105	8.28	392.0	2.78	27.90	
11:00		.250		13.85	3.89	104	8.21	390.6	1.26	28.09	
11:05		.200		13.99	4.00	105	8.04	387.5	1.45	28.37	
11:10		.200		13.96	4.06	106	7.95	386.0	0.92	28.50	
11:15		.200		14.11	4.10	108	7.78	384.1	1.05	28.64	
11:20		.200		14.21	4.16	108	7.58	380.3	1.15	28.72	
11:25		.150		14.16	4.19	109	7.34	379.9	0.76	28.81	
11:30		.150		14.27	4.20	108	7.08	378.1	0.74	28.90	
11:35		.150		14.31	4.22	108	6.80	376.4	0.81	28.93	
11:45		.150		Sampling							Sampling

10/15/21
SO

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)
Used YSI and Turbidimeter:

SITE NAME Manchester Landfill

MONITORING WELL DEVELOPMENT PURGING & SAMPLING RECORDS

Geosyntec Consultants
1750 American Blvd.
Suite 200
Pennington, NJ 08534
609-895-1400

Geosyntec consultants
engineers | scientists | innovators

Well ID: MW-2
Zone and/or Depth of Pump: 40' top of pump
Project Name:
Sampling Program: Baseline
Date: 10/13/21
Recorded By: CP
Sample ID: MW-2_10132021
Duplicate ID: -

Well Diameter: 4"
Total Depth of Well: 43'
Initial Depth to Water: 27.22 Time: 1300
Casing Volume:
Depth to Water after Purging: 30.82 Time: 1410
Method of Purging: low flow bladder
Method of Sampling:
Weather: Overcast; 70s F

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	temp	pH	specific conductance	D.O	ORP	Turbidity	Water Level	comments
	0 m	gpm / (lpm)	litres / (gallons)	F / (C)	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
1320	40	0.150			Start	purging					
1325	↓	0.200		15.40	4.29	0.203	2.70	160.3	44.2	29.28	water clear → colorless
1330		↓		15.20	4.16	0.201	6.07	166.0	68.8	29.70	
1335		0.150		15.02	4.25	0.199	10.48	172.3	88.6	29.93	
1340				14.84	4.39	0.198	12.27	173.4	94.6	30.19	
1345				15.05	4.50	0.196	12.43	172.6	97.8	30.38	
1350				15.19	4.59	0.199	12.49	172.3	95.9	30.55	
1355				16.12	4.63	0.198	12.22	172.1	98.0	30.66	*
1400				15.35	4.74	0.198	12.65	172.9	89.9	30.76	
1405				15.23	4.75	0.198	12.88	176.1	83.2	30.80	
1410	↓	↓	N3	15.28	4.78	0.198	13.03	178.4	92.3	30.82	
1415	CP	Samples as above									

CP 10/13/21

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)
Used YSI and Turbidimeter. AFA

* Could not purge lower than 0.150 lpm

SITE NAME

MONITORING WELL DEVELOPMENT PURGING & SAMPLING RECORDS

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609-895-1400

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Well ID: MW-3
Zone and/or Depth of Pump: 38' Ft top of pump
Project Name:
Sampling Program:
Date: 10/14/21
Recorded By: SBaldesari
Sample ID: MW-3_10142021
Duplicate ID:

Well Diameter: 4"
Total Depth of Well: 41.20
Initial Depth to Water: 24.41 Time: 11:46
Casing Volume:
Depth to Water after Purging: 24.40 Time: 13:50 = 5gal purged
Method of Purging: low flow bladder
Method of Sampling:
Weather:

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	temp	pH	specific conductance	D.O	ORP	Turbidity	Water Level	comments
	ft / m	gpm / Lpm	litres / gallons	F / C	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
	38										
12:25	↓		Start purge								Start
12:30										24.5	not deep enough
12:40			Start purge							24.33	Start
12:45		.400		15.48	3.89	48	8.83	236.2	3.31	~~24.58~~	
12:50		.300		15.52	3.64	48	8.44	256.8	0.71	~~256.8~~	
12:55		.100		15.04	3.92	47	8.12	249.2	0.43	24.53	
13:00		.400		15.28	3.69	47	7.58	259.3	0.61	24.60	
13:05		.250		15.22	3.91	47	7.15	248.0	1.05	24.50	
13:10		.250		15.16	3.97	47	6.91	245.6	0.33	24.58	
13:15		.250		15.17	4.07	47	6.53	239.8	0.87	24.52	
13:20		.250		15.21	4.11	47	6.33	237.1	0.29	24.50	
13:25		.250		15.13	4.15	47	5.99	237.0	0.34	24.51	
13:30		.250		14.91	4.15	47	5.75	238.9	0.28	24.50	
13:35		.250		14.94	4.09	47	5.59	243.1	0.28	24.50	
13:40		.250	↓	14.77	4.11	47	5.53	242.0	0.30	24.50	
13:45	✓		sampling								sample

0.250

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)
Used YSI and Turbidimeter (3)

MB-02 : hw 1440

SITE NAME

MONITORING WELL DEVELOPMENT PURGING & SAMPLING RECORDS

Geosyntec Consultants
1750 American Blvd.
Suite 200
Pennington, NJ 08534
609-895-1400

Geosyntec consultants

Well ID: MW-4
Zone and/or Depth of Pump:
Project Name:
Sampling Program:
Date: 10/15/21
Recorded By: S Ba Wasser
Sample ID: MW-4-101521
Duplicate ID: —

Well Diameter: 4"
Total Depth of Well: 45'
Initial Depth to Water: 28.67' Time: 1230
Casing Volume:
Depth to Water after Purging: 29.65 Time: 1475
Method of Purging:
Method of Sampling:
Weather: 82° Sunny

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	temp	pH	specific conductance	D.O	ORP	Turbidity	Water Level	comments
	@ m / 40	gpm / Lpm	litres / gallons	F / C	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
12:55		.200		Start	Purging					28.65	Start Purging
13:00		.200		15.82	4.30	1707	0.72	109.5	127	28.79	
13:05		.200		15.40	4.22	1475	0.51	113.6	89.1	29.05	
13:10		.200		15.48	4.22	1409	0.50	116.1	65.8	29.15	
13:15		.200		15.47	4.23	1322	0.55	118.7	38.9	29.30	
13:20		.150		15.25	4.24	1212	0.64	124.4	22.2	29.40	
13:25		.150		15.83	4.26	952	0.81	136.3	16.0	29.55	
13:30		.150		16.00	4.26	774	0.90	142.6	12.9	29.60	
13:35		.150		15.87	4.29	550	0.93	146.5	11.1	29.65	
13:40		.150		15.84	4.25	381	0.91	153.8	9.01	29.70	
13:45		.150		15.90	4.28	316	0.88	155.1	8.06	29.72	
13:50		.150		15.99	4.25	281	0.84	159.3	6.67	29.74	
13:55		.150		15.96	4.27	259	0.79	158.0	6.46	29.76	
14:00		.150		15.86	4.29	252	0.74	158.6	7.16	29.78	
14:05		.150		15.90	4.28	245	0.69	161.1	7.10	29.80	
14:10		.150		15.83	4.26	238	0.66	163.5	6.40	29.82	
14:20		.150		Sampling							Sampling

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)
Used YSI and Turbidimeter:

Frog keeps reappearing in well
water inside of well casing

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Geosyntec consultants

Well ID: TEMPWELL-121222
Zone and/or Depth of Pump: ~~0~~ ft btc (CK 12/12/22)
Project Name: Manchester LF
Sampling Program: N/A
Date: 12/12/22
Recorded By: CK
Sample ID: TEMPWELL-121222
Duplicate ID: DUP-01-121222

Well Diameter: 1 in
Total Depth of Well: 12.35 ft btc (11.62 ft bgs*)
Initial Depth to Water: 5.55 ft btc Time:
Casing Volume: 64.08 in3
Depth to Water after Purging: Time:
Method of Purging: peristaltic pump
Method of Sampling: peristaltic pump / bailer***
Weather: 35-40°F, Sunny

FIELD PARAMETERS

Stabilization Criteria:				± 3%	± 0.1 unit	± 3%	± 10%	± 10 mV	± 10%	<0.3 ft drawdown	
time	intake depth	pumping rate	cumulative volume	✓ temp	✓ pH	✓ specific conductance	✓ D.O	✓ ORP	✓ Turbidity	✓ Water Level	comments
	ft / m	gpm / Lpm	litres / gallons	F / C	(units)	(mS / cm)	(mg / L)	(mV)	NTU	ft / m	odor, color, sediment load, well condition, presence of product
1045	~~+6~~ (CK 12/12)	0.400	↓				CK 12/12/22		OVR	5.55	Start pumping
1145	6	0.400	~9	12.36	5.23	0.039	5.61	104.2	79.6	5.60	Water is light brown,
1150				12.40	4.51	0.037	5.48	146.9	49.6	5.60	contains sediment
1155				12.39	4.19	0.037	5.49	176.9	29.1	5.60	@ 1145, water
1200				12.41	4.13	0.037	5.47	193.6	11.3	5.60	is clear, colorless,
1205				12.40	4.17	0.037	5.46	196.1	8.35	5.60	No odors
1210				12.41	4.17	0.037	5.46	198.8	5.83	5.60	
1215				12.45	4.18	0.037	5.45	202.3	4.72	5.60	
1220			↓	12.44	4.20	0.037	5.46	205.7	4.42	5.60	
1225	↓	↓		12.43	4.21	0.037	5.45	206.4	4.56	5.60	
1230	SAMPLED AS	ABOVE	BY	CK.							

CK 12/12/22

Notes: (well condition, nearby activities or changes in land use, odors, problems, deviations from plan, etc.)

* Well stick up height is 0.73 ft

** Used YSI A and turbidimeter A

OVR = >1000 NTU

*** Teflon-lined bailer was used to sample for SVOCs following sample collection by peri-pump for other analyses

APPENDIX D

Soil Classification


74° 24' 48" W
74° 23' 57" W
39° 57' 51" N
39° 57' 26" N
550100
550200
550300
550400
550500
550600
550700
550800
550900
551000
551100
551200
551300
4423900
4423800
4423700
4423600
4423500
4423400
4423300
4423200
AtsAO
LasC
MakAt
AtsAO
LasB
AtsAO
LasB
PHG
4wd Road
LakB
WobB
AtsAO
LakB
70
Soil Map may not be valid at this scale.
Map Scale: 1:5,560 if printed on A landscape (11" x 8.5") sheet.
N
Meters
0 50 100 200 300
Feet
0 250 500 1000 1500
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ocean County, New Jersey
Survey Area Data: Version 19, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

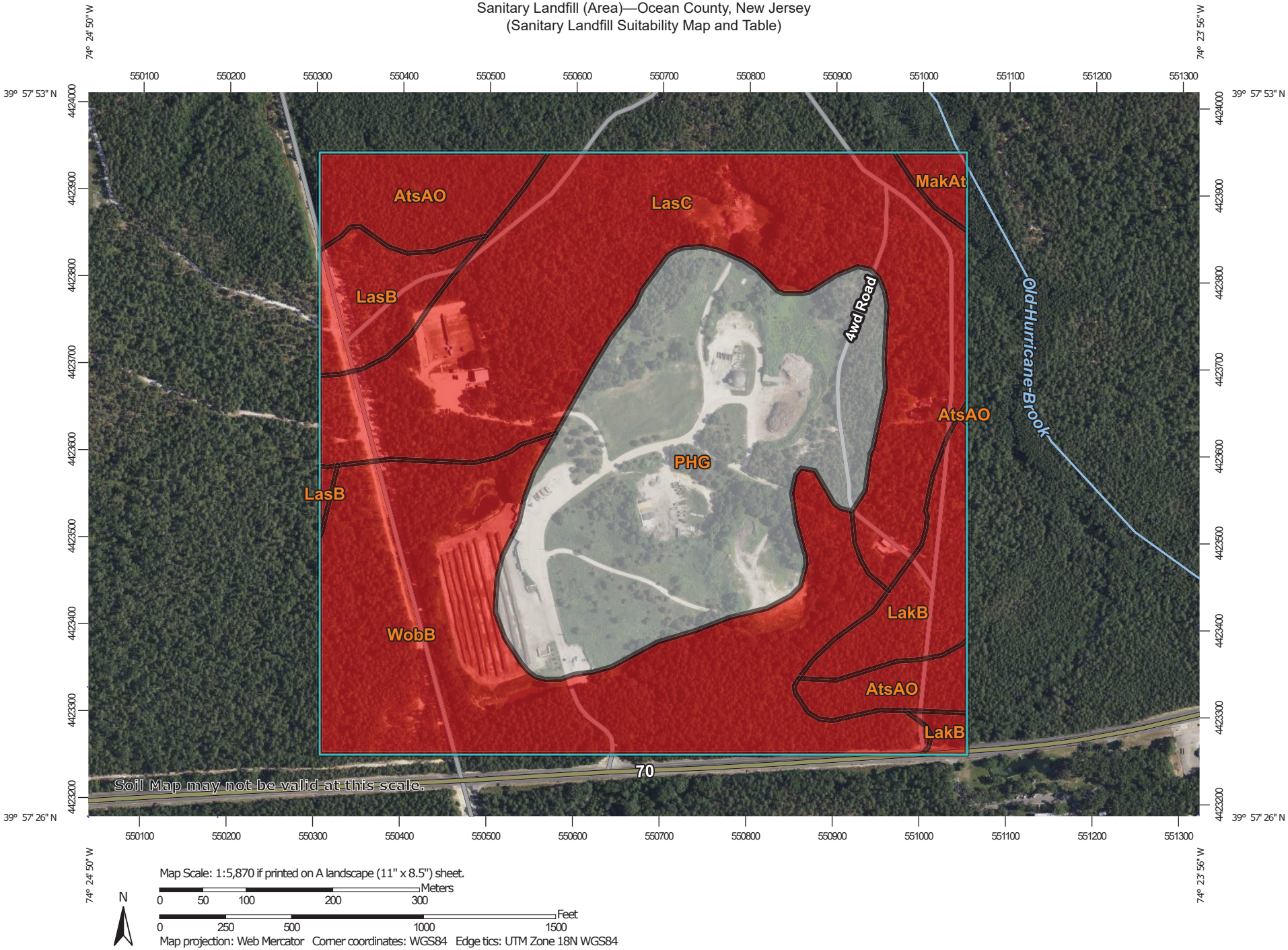
Date(s) aerial images were photographed: Apr 13, 2021—Sep 14, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AtsAO	Atsion sand, 0 to 2 percent slopes, Northern Tidewater Area	6.5	5.3%
LakB	Lakehurst sand, 0 to 5 percent slopes	7.1	5.8%
LasB	Lakewood sand, 0 to 5 percent slopes	4.0	3.3%
LasC	Lakewood sand, 5 to 10 percent slopes	34.2	28.0%
MakAt	Manahawkin muck, 0 to 2 percent slopes, frequently flooded	0.7	0.6%
PHG	Pits, sand and gravel	36.1	29.6%
WobB	Woodmansie sand, 0 to 5 percent slopes	33.5	27.4%
Totals for Area of Interest		**122.1**	**100.0%**

Sanitary Landfill (Area)—Ocean County, New Jersey
(Sanitary Landfill Suitability Map and Table)



Map Scale: 1:5,870 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 250 500 1000 1500

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

Soil Rating Lines
- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

Soil Rating Points
- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ocean County, New Jersey
Survey Area Data: Version 19, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 13, 2021—Sep 14, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Sanitary Landfill (Area)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
AtsAO	Atsion sand, 0 to 2 percent slopes, Northern Tidewater Area	Very limited	Atsion (90%)	Seepage (1.00)	8.5	6.6%
				Depth to saturated zone (1.00)		
			Berryland, occasionally flooded (5%)	Flooding (1.00)		
				Ponding (1.00)		
				Seepage (1.00)		
				Depth to saturated zone (1.00)		
			Lakehurst (5%)	Seepage (1.00)		
				Depth to saturated zone (1.00)		
LakB	Lakehurst sand, 0 to 5 percent slopes	Very limited	Lakehurst (85%)	Seepage (1.00)	5.8	4.5%
				Depth to saturated zone (1.00)		
			Atsion, rarely flooded (5%)	Seepage (1.00)		
				Depth to saturated zone (1.00)		
				Flooding (0.40)		
			Berryland, rarely flooded (5%)	Ponding (1.00)		
				Seepage (1.00)		
				Depth to saturated zone (1.00)		
				Flooding (0.40)		
			Quakerbridge (5%)	Seepage (1.00)		
LasB	Lakewood sand, 0 to 5 percent slopes	Very limited	Lakewood (85%)	Seepage (1.00)	4.8	3.8%
			Quakerbridge (5%)	Seepage (1.00)		
			Lakehurst (5%)	Seepage (1.00)		
				Depth to saturated zone (1.00)		
			Atsion, rarely flooded (5%)	Seepage (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Depth to saturated zone (1.00)		
				Flooding (0.40)		
LasC	Lakewood sand, 5 to 10 percent slopes	Very limited	Lakewood (85%)	Seepage (1.00)	38.1	29.7%
			Evesboro (5%)	Seepage (1.00)		
			Atsion, rarely flooded (5%)	Seepage (1.00)		
				Depth to saturated zone (1.00)		
				Flooding (0.40)		
			Lakehurst (5%)	Seepage (1.00)		
				Depth to saturated zone (1.00)		
MakAt	Manahawkin muck, 0 to 2 percent slopes, frequently flooded	Very limited	Manahawkin, frequently flooded (85%)	Flooding (1.00)	1.1	0.9%
				Ponding (1.00)		
				Seepage (1.00)		
				Depth to saturated zone (1.00)		
				Dusty (0.05)		
			Mullica, rarely flooded (5%)	Ponding (1.00)		
				Seepage (1.00)		
				Depth to saturated zone (1.00)		
				Flooding (0.40)		
				Dusty (0.01)		
			Atsion (5%)	Ponding (1.00)		
				Seepage (1.00)		
				Depth to saturated zone (1.00)		
			Berryland, occasionally flooded (5%)	Flooding (1.00)		
				Ponding (1.00)		
				Seepage (1.00)		
				Depth to saturated zone (1.00)		
PHG	Pits, sand and gravel	Not rated	Pits, sand and gravel (100%)		36.1	28.1%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
WobB	Woodmansie sand, 0 to 5 percent slopes	Very limited	Woodmansie (85%)	Seepage (1.00)	34.0	26.5%
			Lakehurst (5%)	Seepage (1.00)		
				Depth to saturated zone (1.00)		
			Lakewood (5%)	Seepage (1.00)		
			Downer (3%)	Seepage (1.00)		
			Atsion, rarely flooded (2%)	Seepage (1.00)		
				Depth to saturated zone (1.00)		
				Flooding (0.40)		
Totals for Area of Interest					**128.4**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Very limited	92.3	71.9%
Null or Not Rated	36.1	28.1%
Totals for Area of Interest	**128.4**	**100.0%**

Description

In an "area sanitary landfill," solid waste is placed in successive layers on the surface of the soil. The waste is spread, compacted, and covered daily with a thin layer of soil from a source away from the site. A final cover of soil material at least 2 feet thick is placed over the completed landfill. A landfill must be able to bear heavy vehicular traffic. It can result in the pollution of ground water. Ease of excavation and revegetation should be considered.

The ratings are based on the soil properties that affect trafficability and the risk of pollution. These properties include flooding, saturated hydraulic conductivity (Ksat), depth to a water table, ponding, slope, and depth to bedrock or a cemented pan. Flooding is a serious problem because it can result in pollution in areas downstream from the landfill. If Ksat is too rapid or if fractured bedrock, a fractured cemented pan, or the water table is close to the surface, the leachate can contaminate the water supply. Slope is a consideration because of the extra grading required to maintain roads in the steeper areas of the landfill. Also, leachate may flow along the surface of the soils in the steeper areas and cause difficult seepage problems.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to

validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
AtsAO	Atsion sand, 0 to 2 percent slopes, Northern Tidewater Area	5	8.5	6.6%
LakB	Lakehurst sand, 0 to 5 percent slopes	76	5.8	4.5%
LasB	Lakewood sand, 0 to 5 percent slopes	>200	4.8	3.8%
LasC	Lakewood sand, 5 to 10 percent slopes	183	38.1	29.7%
MakAt	Manahawkin muck, 0 to 2 percent slopes, frequently flooded	0	1.1	0.9%
PHG	Pits, sand and gravel	>200	36.1	28.1%
WobB	Woodmansie sand, 0 to 5 percent slopes	183	34.0	26.5%
Totals for Area of Interest			**128.4**	**100.0%**

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

APPENDIX E

Leachate Modeling Analysis

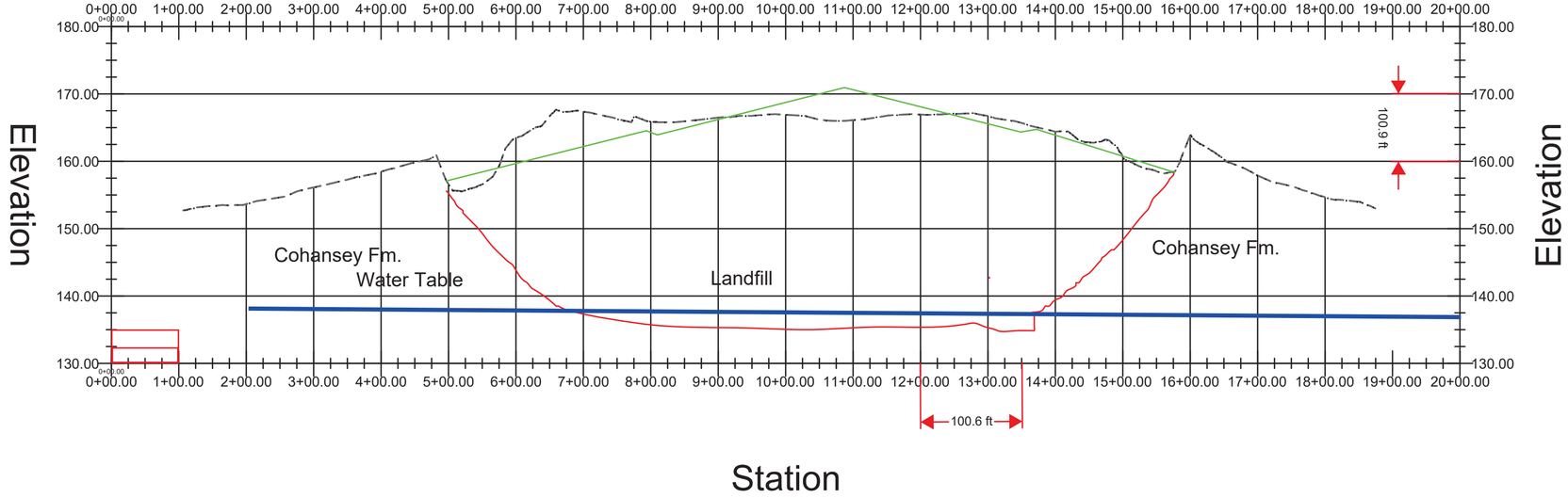
Appendix E - Summary of Input and Output Data
Pre- and Post-Closure HELP Analysis
Manchester Landfill - 110 Sam Pitts Road
Manchester, New Jersey

INPUT	Existing Conditions	Post-Closure Conditions
Landfill Area	33 acres	33 acres
Model Stratigraphy	6 inches Loamy Sand Topsoil	6 inches Loamy Sand Topsoil
	42 inches Sand	18 inches Sand
	300 inches MSW	300 inches MSW
Vegetation Ground Surface	Good Stand of Grass	Fair Stand of Grass
Maximum Leaf Area Index	3.5	2
Evaporative Zone Depth	36 inches (max. per HELP manual)	24 inches (cover soil depth)
Percent of Area Subject to Runoff	75%	100%
Drainage Path Length	710 feet (average)	550 feet (maximum)
Drainage Path Slope	1.3% (average)	2%
HELP-computed Runoff Curve Number	44.3	56.9
OUTPUT (avg. annual total from 30 year simulation)	Existing Conditions	Post-Closure Conditions
Precipitation	47.32 inches	47.32 inches
Runoff	2.2%	3.1%
Evapotranspiration	67.3%	67.8%
Change in Water Storage	0.2%	0.2%
Infiltration Through Waste	**30.4%**	**28.9%**

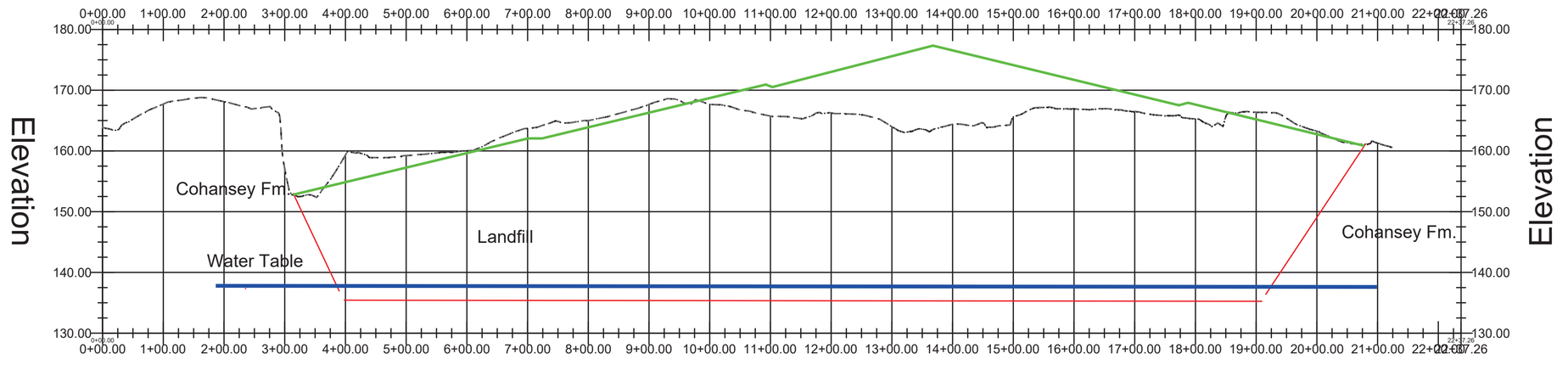
APPENDIX F

Cross Sections

SECTION AA'



SECTION BB'



150 120 90 60 30 0 75 150 300

SCALE : 1" = 150'

Red line indicates elevation of buried landfill refuse
Blue line indicates approximate water table

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REV	DATE	DRAWN BY	DESCRIPTION

AERIAL
TOPOGRAPHIC SURVEY

FOR

MANCHESTER
TOWNSHIP

BLOCK 116
A PORTION OF LOT 13

MANCHESTER TOWNSHIP
OCEAN COUNTY
NEW JERSEY

RED BANK OFFICE
Corporate Headquarters
331 Newman Springs Road
Suite 203
Red Bank, NJ 07701

Phone: 732.383.1950
Fax: 732.383.1984

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	10/5/20	BW	WM

PROJECT NUMBER:	DRAWING NAME:
MCT020	V-SURV-PRFL

SHEET TITLE:

GEOLOGIC CROSS-SECTION

SHEET NUMBER:

2 of 2

M:\MCT020\Survey\Plans\V-SURV-PRFL.dwg|V-02-SURVEY By: BWALLACE

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

APPENDIX G

Comparison of Groundwater Data to Ecological Screening Benchmarks

Geosyntec consultants

Memorandum

Date: 1 February 2023

To: Project File, Manchester Landfill, JR0312

Copies to: John Persico, Geosyntec Consultants

From: Rachel Zajac-Fay, Geosyntec Consultants

Subject: Comparison of Groundwater Data to Ecological Screening Benchmarks
Manchester Landfill
Manchester, New Jersey

Credentials and Professional Judgement

I'm an environmental scientist with 15 years of professional experience in the consulting industry, with a focus on ecological risk assessment, ecotoxicity, site characterization and assessment, and evaluating the groundwater-surface water interface (porewater). My educational background includes a Bachelor of Science in Environmental Technology with a concentration in Environmental Toxicology (North Carolina State University 2007) and a Master of Environmental Assessment (North Carolina State University 2015). I've completed ecological risk assessments (screening-level and baseline) for numerous sites in United States Environmental Protection Agency (USEPA) Regions 1, 2, 3, 4, 5, 9, and 10, for both aquatic and terrestrial habitats. I've reviewed the groundwater data that has been screened against ecological benchmarks and have provided an assessment below. In my professional judgement, groundwater does not pose a risk to aquatic ecological receptors downgradient of the site and no further action is warranted.

Data Evaluation

Risk to ecological receptors can be assessed by comparing concentrations of chemicals in media (soil, sediment, etc.) against ecological screening benchmarks (ESBs). ESBs are concentrations below which no adverse effects on ecological receptors (e.g., fish, aquatic invertebrates, amphibians and wildlife) are expected. ESBs are intentionally conservative and protective of all receptors exposed to that media; in some cases, ESBs may be below naturally occurring levels. If concentrations of constituents in the media are below ESBs, it can be concluded no further evaluation is warranted.

There are different sources for ESBs, and the preference for which source to use can vary by state and USEPA region. The hierarchy is to use state-based ESBs and then USEPA regional (if available) or federal. If ESBs are not available from the state or USEPA region, then other sources are considered

(such as using ESBs from other USEPA regions or trusted database sources like the Risk Assessment Information System).

ESBs are a general term to describe screening levels for ecological receptors. However, different states, regions, or sources may use other language to describe ESBs. For example, other common terminology used can include screening criteria, screening levels, thresholds, or screening values. For the purposes of this memo, terminology is used based on the source of the ESB.

Data from the groundwater sampling event in October 2021 and the temporary well sample collected in December 2022 were compared to publicly available risk-based ESBs to assess whether constituents detected in groundwater may pose a hazard to downgradient ecological receptors. Ecological receptors do not come into direct contact with groundwater; however, they may be exposed if shallow groundwater discharges into nearby and downgradient surface water. Therefore, using groundwater as a surrogate for an ecological risk screening is a conservative approach.

The groundwater samples were analyzed for Target Compound List semi-volatile organic compounds (SVOCs) including 1,4-dioxane, Target Analyte List metals, and landfill leachate parameters. Samples from MW5S, MW5D, MW6S, MW6D, and the temporary well were also analyzed for perfluoroalkyl and polyfluoroalkyl substances (PFAS). Samples from wells MW6S and MW6D were analyzed for endocrine disruptor compounds (EDCs). Surface water samples were planned to be collected in the wetland area north of the site in October 2021 and in November 2022 but could not be collected as no surface water was present. The SVOC and metal screen is presented in Table 1, PFAS screen is presented in Table 2, and EDC screen is presented in Table 3[1].

For some analytical results where constituents were not detected in a sample (non-detects) the method detection limit may be higher than the selected ESB. This is because ESBs are extremely conservative and laboratory methods often cannot detect concentrations at or below the ESB. The laboratory that conducted the analyses is certified by the State of New Jersey and the analytical methods used in this study are USEPA methods (where applicable), so the analytical results are as precise as current methods and equipment permit. In cases where the detection limit is higher than the ESB, it is general practice to accept the non-detect result as confirming that the constituent is not present at a concentration that would result in ecological risk.

The preferred ESBs used in this evaluation were the New Jersey Ecological Screening Criteria (ESC) surface water quality standards freshwater chronic criteria. If no ESC was available, then the following sources were used to identify relevant and appropriate ESBs:

- USEPA Region 4 Ecological Screening Values (ESVs) freshwater chronic criteria were used if an ESC was not available. The Region 4 ESVs were published in 2018 and are commonly used in different USEPA regions.
- Los Alamos National Laboratory (LANL) freshwater criteria for protection of aquatic community organisms was used for aluminum (LANL, 2017). LANL provides no effect concentration (NOEC) based criteria and a low effect concentration (LOEC) based criteria. While NOECs are conservative like other ESBs and are protective for individual organisms, LOECs are commonly

[1] These tables only include detected constituents. The full analytical results are included in the Final Hydrogeologic Investigation Report.

used in the refinement step of ecological risk screening and provide a risk-based number that is protective of a population level for receptors.

- USEPA National Recommended Water Quality Criteria (NRWQC) for aquatic life was used for iron.
- Pinelands Water Quality Standard and USEPA (2013) Aquatic Life Ambient Water Quality Criteria (AWQC) freshwater chronic ESBs were used for ammonia and nitrate.
- Environmental Science Division Argonne National Laboratory's ESV for aquatic life were used for PFAS. Argonne National Laboratory developed ESVs to support screening-level ecological risk assessments at federal Department of Defense facilities (U.S. Air Force, Navy, Army, and other U.S. Department of Defense sites where PFAS have been detected in soils and surface waters).
- The Risk Assessment Information System (RAIS) database (Oak Ridge National Laboratory, 2022) was used to identify available ESBs for EDCs. RAIS identified only one available ESB from federal Canadian guidelines (Environment and Climate Change Canada, 2021).

Selected alternate ESBs support the screening level steps (Steps 1 and 2 of eight steps) of USEPA Ecological Risk Assessment Guidance for Superfund to assess whether levels pose potential unacceptable ecological risks. Thus, groundwater concentrations that exceed ESBs may require further investigation in a baseline ecological risk assessment, which in turn may support risk-management decisions and actions to reduce risks.

Results

For detected SVOCs, groundwater concentrations were all below the ESC except for benzo(a)anthracene and benzo(a)pyrene in the samples collected from MW5S and the temporary well. A duplicate sample was collected at MW5S and neither benzo(a)anthracene and benzo(a)pyrene were detected. At the temporary well, the equipment blank collected for quality assurance contained benzo(a)anthracene and benzo(a)pyrene, at levels higher than observed in the samples from the well (the equipment blank results are in Table 3-2b of the Final Hydrogeologic Investigation Report). This indicates that these compounds are not present in groundwater but are the result of contamination during sample collection or analysis. Benzo(a)anthracene and benzo(a)pyrene were not detected in samples collected from any other monitoring wells.

The SVOCs benzo(k)fluoranthene, caprolactam, dibenzo(a,h)anthracene, and hexachlorobenzene were detected in groundwater samples but do not have New Jersey ESCs. USEPA Region 4 ESVs were used as an alternate ESB for benzo(k)fluoranthene and dibenzo(a,h)anthracene, which have a screening value of 0.012 µg/L. In the samples collected from wells MW1 and MW5S, concentrations of these two PAHs exceed the ESV. USEPA Region 4 ESVs were also used for hexachlorobenzene, which has an aquatic screening value of 0.15 µg/L. The concentration of hexachlorobenzene in groundwater is below this ESC. While ESBs are not available for caprolactam, caprolactam concentrations were compared to the New Jersey groundwater screening criteria as a conservative screening and were below the criteria. Well MW5S is located more than 700 feet upgradient from the nearest wetlands (see Figure 3-1 in the Hydrogeologic Investigation Report). PAHs are low solubility compounds that do not migrate significantly in groundwater. It is unlikely that they could migrate from the area of well MW5S to the wetlands.

Metals were not detected at concentrations that exceed ESCs. Calcium, magnesium, potassium, and sodium were detected but do not have ESCs; these are essential macronutrients and therefore are not evaluated in ecological risk assessments. Additionally, well MW5S is located downgradient of a salt and equipment storage area. Based on the presence of high levels of sodium and chloride, groundwater impacts at well MW5S are likely related to ongoing operations at the salt and equipment storage area.

Aluminum was detected in all groundwater samples. An ESC is not available for aluminum, as aluminum is only bioavailable to organisms with pH of less than 6.5 and greater than 9. pH measured during groundwater purging ranged between 3.3 and 5.1, which is a range that could result in bioavailability. However, screening groundwater data is a conservative approach and does not represent surface water conditions that aquatic organisms would be exposed to. Additional sources were reviewed for ESBs; LANL provides a NOEC of 530 µg/L and a LOEC of 1,300 µg/L. The most downgradient wells at the Site are well MW5S and the temporary well. Aluminum concentrations from well MW5S and the temporary well are below these LANL NOECs, so no effect from the aluminum on ecological receptors would be expected.

Iron also does not have an ESC, but ESBs are available from other sources. NRWQC provides a chronic ESB of 1,000 µg/L. Only the groundwater sample collected from well MW2 contains a concentration of iron above this ESB, and the most downgradient well (MW5S) had a concentration of iron well below the ESB.

Ammonia and nitrate concentrations were compared to the Pinelands Water Quality Standard for nitrate-N (2,000 microgram per liter [ug/L] for each constituent) as well as the USEPA AWQC (2013) (1,900 ug/L total ammonia nitrogen). Concentrations were below the USEPA and Pinelands Water Quality Standards. This indicates that ammonia and nitrate are not present at levels at which adverse ecological effects would occur.

There are currently no New Jersey ESCs available for PFAS; therefore, PFAS results were compared to the Environmental Science Division Argonne National Laboratory's ESV for aquatic life. The detected PFAS results were compared to the ESVs (Table 2), and all detected concentrations were below ESVs.

Similarly, there are currently no available New Jersey ESCs for EDCs. Alternate ESBs were identified using the RAIS database (Oak Ridge National Laboratory, 2022). The only available ESB is from federal Canadian guidelines (Environment and Climate Change Canada, 2021), and only available for bisphenol A (BPA). The ESB for BPA was used as a surrogate for bisphenol S, as no ESB is available. Detected concentrations of both are below the ESB.

Conclusions

Although minor exceedances of select PAHs compared to ESBs were identified in groundwater, these are not likely to pose risk due to the low magnitude and distance from surface water. The most downgradient monitoring well, MW5S, is located approximately 700 ft upgradient of the wetland. Concentrations of all constituents are expected to decrease along the flow path towards the wetland. Based on this evaluation, the groundwater concentrations do not pose a threat to any ecological receptors and no further investigation to evaluate risk to downgradient ecological receptors is warranted.

References

Environment and Climate Change Canada (ECCC), 2017. *Canadian Environmental Protection Act, 1999*, Federal Environmental Quality Guidelines, *Bisphenol A*. February.

Grippo M., J. Hayse, I. Hlohowskyj, and K. Picel, 2021. Derivation of PFAS Ecological Screening Values, Environmental Science Division Argonne National Laboratory. September.

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New Jersey Administrative Code (N. J. A. C.) 7:9B, Surface Water Quality Standards. Re-adopted: October 17, 2016. Last Amended: April 6, 2020.

Oak Ridge National Laboratory. 2022. Risk Assessment Information System. Available online at https://rais.ornl.gov/tools/eco_search.php.

USEPA. National Recommended Water Quality Criteria – Aquatic Life Criteria Table. Available online at: https://www.epa.gov/wqc/national-recommended-water-quality-criteria-aquatic-life-criteria-table

USEPA. 2018. Region 4 Ecological Risk Assessment Supplemental Guidance. March.

TABLE 1:

Comparison of Groundwater Data to Ecological Screening Benchmarks: Semivolatile Organic Compounds and Metals

Manchester Landfill

Manchester, New Jersey

Geosyntec Consultants

Well ID	CAS Number	ESB	MW-1	MW-2	MW-3	MW-4	MW-5S	MW-5S	MW-5D	MW-6S	MW-6D
Sample Date			10/15/2021	10/13/2021	10/14/2021	10/15/2021	10/14/2021	10/14/2021	10/14/2021	10/15/2021	10/15/2021
Field Sample ID			MW-1-10152021	MW-02-10132021	MW-3-10142021	MW-4-10152021	MW-5S-10142021	DUP-01-10142021	MW-5D-10142021	MW-6S-10152021	MW-6D-10152021
Laboratory ID			L2156635-03	L2155878-02	L2156219-01	L2156635-02	L2156219-02	L2156219-03	L2156219-04	L2156635-04	L2156635-05
Semi-Volatile Organic Compounds (µg/L)											
Benzo(a)anthracene	56-55-3	0.025	0.1 U	0.1 U	0.1 U	0.1 U	0.24	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(a)pyrene	50-32-8	0.014	0.1 U	0.1 U	0.1 U	0.1 U	0.25	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(b)fluoranthene	205-99-2	9.07	0.02 J	0.1 U	0.1 U	0.1 U	0.41	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(k)fluoranthene	207-08-9	NA	0.02 J	0.1 U	0.1 U	0.1 U	0.12	0.1 U	0.1 U	0.1 U	0.1 U
Caprolactam	105-60-2	NA	23	16	10 U	31	46	23	6 J	5.2 J	16
Dibenzo(a,h)anthracene	53-70-3	NA	0.04 J	0.1 U	0.1 U	0.1 U	0.05 J	0.1 U	0.1 U	0.1 U	0.1 U
Indeno (1,2,3-cd) pyrene	193-39-5	4.31	0.04 J	0.1 U	0.1 U	0.1 U	0.22	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobenzene (HCB)	118-74-1	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Metals (µg/L)											
Aluminum	7429-90-5	NA	140	1360	39.5	522	301	298	380	241	362
Antimony	7440-36-0	80	4 U	4 U	4 U	4 U	4 U	1.094 J	4 U	4 U	4 U
Arsenic	7440-38-2	150	0.3347 J	1.221	0.5 U	1.033	0.5445	0.5487	0.3867 J	0.4139 J	0.4094 J
Barium	7440-39-3	220	41.92	55.19	31.99	87.95	64.84	63.93	37.23	53.53	51.9
Beryllium	7440-41-7	3.6	0.5 U	0.1586 J	0.5 U	0.2081 J	0.5 U	0.5 U	0.1746 J	0.5 U	0.5 U
Cadmium	7440-43-9	0.16	0.2 U	0.1325 J	0.2 U	0.0885 J	0.0657 J	0.0634 J	0.2 U	0.1532 J	0.2 U
Calcium	7440-70-2	NA	2320	4960	4350	3220	3780	3650	2860	1810	3000
Chromium	7440-47-3	42	0.5529 J	3.576	1 U	0.19 J	0.6745 J	0.6616 J	0.2294 J	0.5799 J	0.7564 J
Cobalt	7440-48-4	24	0.5151	2.928	0.3824 J	1.523	0.7797	0.8256	0.9516	4.903	1.001
Copper	7440-50-8	5.2	0.997 J	4.724	0.4844 J	1.814	1.679	1.664	0.4047 J	1.163	0.6228 J
Iron	7439-89-6	NA	54.3	1760	26.5 J	113	309	311	114	69.4	385
Lead	7439-92-1	5.4	0.4656 J	2.019	1 U	0.3606 J	0.6504 J	0.6388 J	1 U	1 U	1 U
Magnesium	7439-95-4	NA	1740	1730	782	1670	1130	1120	1430	466	1550
Manganese	7439-96-5	NA	16.62	62.58	55.85	49.28	31.55	30.24	31.1	50.54	23.63
Nickel	7440-02-0	29	1.375 J	5.857	2 U	1.474 J	1.13 J	1.104 J	1.244 J	2.88	1.059 J
Potassium	7440-09-7	NA	4270	2640	1470	3910	9380	9280	3520	294	6100
Sodium	7440-23-5	NA	10400	28800	2790	35300	59400	58800	45300	2320	26500
Thallium	7440-28-0	10	1 U	1 U	1 U	1 U	0.1953 J	0.2385 J	1 U	0.2111 J	0.351 J
Vanadium	7440-62-2	12	5 U	2.743 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Zinc	7440-66-6	67	10 U	20.2	10 U	4.647 J	14.67	13.85	10 U	4.966 J	10 U
General Chemistry (µg/L)											
Total Alkalinity	ALK	NA	3000	8100	3800	2000 U	4100	4700	2000 U	2000 U	6000
Chemical Oxygen Demand	COD	NA	20000 U	21000	19000 J	9800 J	9800 J	12000 J	20000 U	20000 U	20000 U
Chloride	16887-00-6	230,000	21000	--	2600	52000	81000	79000	69000	3400	46000
Total Dissolved Solids	TDS	NA	34000	140000	42000	130000	190000	180000	130000	7000 J	87000
Ammonia as N	7664-41-7	1,900	50.7 J	88.9 J	65 J	38.3 J	162	102	199	75 U	169
Nitrate as N	14797-55-8	2,000	182	1300	1220	535	224	223	305	57.6 J	539
Sulfate as SO4	14808-79-8	NA	4400 J	11000	7600 J	9300 J	21000	20000	6500 J	3400 J	7400 J

Notes:

Only detected constituents are included in this table.

ESB: Ecological Screening Benchmark - New Jersey Ecological Screening Criteria, NJAC 7:9B Surface Water Quality Standards (SWQS), freshwater chronic criteria

For selected metals, the SWQS is based on hardness, in that case a hardness of 50 mg/L was assumed

Ammonia criterion from Aquatic Life Ambient Water Quality Criteria - Freshwater Chronic, assumes a pH of <7

NA = not available

µg/L = microgram per liter; mg/L = milligram per liter

DUP = duplicate sample; U = not detected; J = estimated

TABLE 1:
Comparison of Groundwater Data to Ecological Screening Benchmarks: Semivolatile Organic Compounds and Metals
Manchester Landfill
Manchester, New Jersey

Well ID	CAS Number	ESB	Temp Well	Temp Well
Sample Date			12/12/2022	12/12/2022
Field Sample ID			TEMPWELL-121222	DUP-01-121222
Laboratory ID			L2269727-01	L2269727-02
Semi-Volatile Organic Compounds (µg/L)				
Benzo(a)anthracene	56-55-3	0.025	0.04 J	0.04 J
Benzo(a)pyrene	50-32-8	0.014	0.02 J	0.02 J
Benzo(b)fluoranthene	205-99-2	9.07	0.03 J	0.04 J
Benzo(k)fluoranthene	207-08-9	NA	.04 J	.04 J
Caprolactam	105-60-2	NA	10 U	10 U
Dibenzo(a,h)anthracene	53-70-3	NA	.04 J	.04 J
Indeno (1,2,3-cd) pyrene	193-39-5	4.31	.03 J	.03 J
Hexachlorobenzene (HCB)	118-74-1	NA	0.01 J	0.02 U
Metals (µg/L)				
Aluminum	7429-90-5	NA	490	471
Antimony	7440-36-0	80	4 U	4 U
Arsenic	7440-38-2	150	0.3528 J	0.3232 J
Barium	7440-39-3	220	33.01	33.21
Beryllium	7440-41-7	3.6	0.5 U	0.5 U
Cadmium	7440-43-9	0.16	0.0894 J	0.0847 J
Calcium	7440-70-2	NA	882	894
Chromium	7440-47-3	42	1.248	1.225
Cobalt	7440-48-4	24	0.6832	0.7217
Copper	7440-50-8	5.2	1.435	1.407
Iron	7439-89-6	NA	642	634
Lead	7439-92-1	5.4	1 U	1 U
Magnesium	7439-95-4	NA	411	419
Manganese	7439-96-5	NA	29.77	30.84
Nickel	7440-02-0	29	2.138	2.453
Potassium	7440-09-7	NA	271	250
Sodium	7440-23-5	NA	2480	2520
Thallium	7440-28-0	10	1 U	1 U
Vanadium	7440-62-2	12	5 U	5 U
Zinc	7440-66-6	67	8.859 J	9.299 J
General Chemistry (µg/L)				
Total Alkalinity	ALK	NA	Not Detected	Not Detected
Chemical Oxygen Demand	COD	NA	20000 U	12,000 J
Chloride	16887-00-6	230,000	4400	4400
Total Dissolved Solids	TDS	NA	20000	13,000 U
Ammonia as N	7664-41-7	1,900	137	93.7
Nitrate as N	14797-55-8	2,000	68.1 J	69 J
Sulfate as SO4	14808-79-8	NA	3,400 J	4,100 J

Notes:
Only detected constituents are included in this table.
ESB: Ecological Screening Benchmark - New Jersey Ecological
For selected metals, the SWQS is based on hardness, in that case
Ammonia criterion from Aquatic Life Ambient Water Quality C
NA = not available
µg/L = microgram per liter; mg/L = milligram per liter
DUP = duplicate sample; U = not detected; J = estimated

TABLE 2:
Comparison of Groundwater Data to Ecological Screening Benchmarks: Perfluorinated Alkyl Acids (PFAS)
Manchester Landfill
Manchester, New Jersey

Geosyntec Consultants

Well ID	CAS Number	ESB	MW-5D	MW-5S	MW-5S	MW-6D	MW-6S	Temp Well	Temp Well
Sample Date			10/14/2021	10/14/2021	10/14/2021	10/15/2021	10/15/2021	12/12/2022	12/12/2022
Field Sample ID			MW-5D-10142021	MW-5S-10142021	DUP-01-10142021	MW-6D-10152021	MW-6S-10152021	TEMPWELL-121222	DUP-01-121222
Laboratory ID			L2156219-04	L2156219-02	L2156219-03	L2156635-05	L2156635-04	L2269727-01	L2269727-02
PERFLUORINATED ALKYL ACIDS (µg/L)									
Perfluorobutanesulfonic acid (PFBS)	375-73-5	400	0.00174 U	0.00059 J	0.000635 J	0.00188 U	0.00191 U	0.0018 U	0.00189 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NA	0.000976 J	0.00116 J	0.00107 J	0.00188 U	0.00191 U	0.0018 U	0.00189 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	65.3	0.000659 J	0.000582 J	0.000544 J	0.00188 U	0.00191 U	0.0018 U	0.00189 U
Perfluorohexanoic acid (PFHxA)	307-24-4	28.8	0.000596 J	0.00142 J	0.00143 J	0.00188 U	0.00191 U	0.0018 U	0.00189 U
Perfluorononanoic acid (PFNA)	375-95-1	16.4	0.00174 U	0.00121 J	0.00109 J	0.00188 U	0.00191 U	0.0018 U	0.00189 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	22.6	0.000938 J	0.00313	0.00276	0.00188 U	0.00191 U	0.0018 U	0.00189 U
Perfluorooctanoic acid (PFOA)	335-67-1	307	0.00393	0.00323	0.00318	0.000248 JF	0.00191 U	0.000292 J	0.000276 J

Notes:
Only detected constituents are included in this table.
ESB: Ecological Screening Benchmark - Environmental Science Division Argonne National Laboratory's ecological screening values for aquatic life (Table 3-3)
NA = not available
µg/L = microgram per liter
DUP = duplicate sample; U = not detected; J,JF = estimated

TABLE 3:
Comparison of Groundwater Data to Ecological Screening Benchmarks: Endocrine Disrupting Chemicals
Manchester Landfill
Manchester, New Jersey

Geosyntec Consultants

Well ID	CAS Number	ESB	MW-6S	MW-6D
Sample Date			10/15/2021	10/15/2021
Field Sample ID			MW-6S-10152021	MW-6D-10152021
Laboratory ID			L35873-1	L35873-2
Endocrine Disrupting Chemicals (µg/L)				
Bisphenol A	80-05-7	1.4	0.00255	ND
Bisphenol S	80-09-1	NA	0.00248	0.00149

Notes:

Only detected constituents are included in this table.

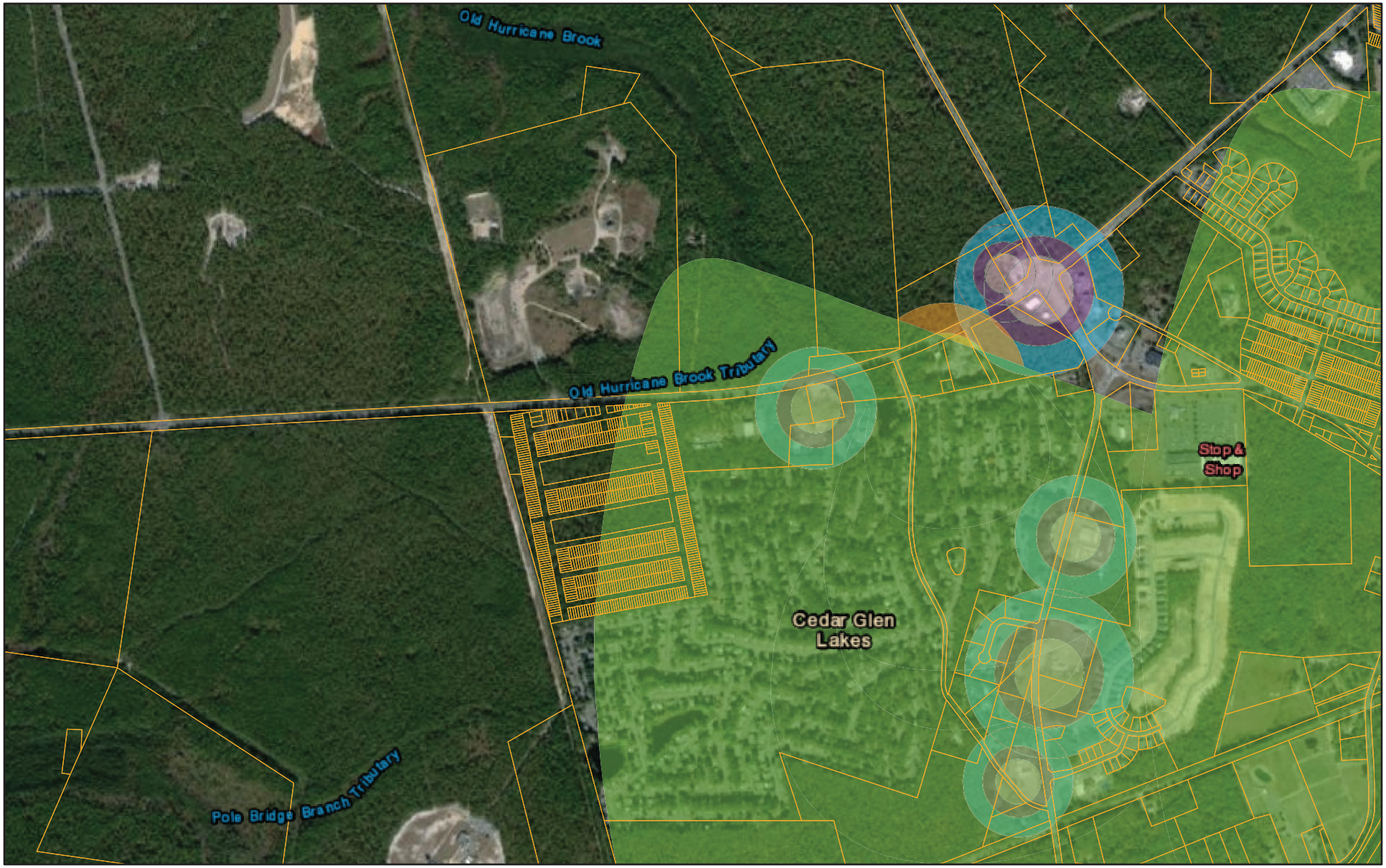
ESB: Ecological Screening Benchmark - Canadian Environmental Protection Act, 1999, Federal Environmental Quality Guidelines, Bisphenol A

µg/L = microgram per liter
ND = not detected
NA = no available

APPENDIX H

Results of Well Search

NJDEP GIS Data Viewer



10/9/2020, 3:23:37 PM

1:18,056

0 0.1 0.2 0.4 mi

0 0.17 0.35 0.7 km

County Boundaries

Parcels Data (Block and Lot)

Well Head Protection Areas (Community)

Tier 1: 2-Year

Tier 2: 5-Year

Tier 3: 12-Year

Well Head Protection Areas (Non-Community)

Tier 1: 2-Year

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,

New Jersey Department of Environmental Protection

NJDEP | NJDEP, Bureau of Energy and Sustainability Edition 20190327 | New Jersey Office of Information Technology (NJOIT), Office of Geographic Information Systems | NJDEP. USEIA | NJ Department of Environmental Protection, Division of Information

One Mile
Well Search Radius

Site Boundary

Half Mile
Well Search Radius

Manchester
Township

3200026699
3200007312
3200022225
3200022226
3200023768
3200026181
3200026254
3200016832
3200022404
3200009388
3200022523
3200012864
3200012377
3200016635
3200013181
3200015763
3200014483
3200015655
3200016891
3200022376
3200022216
3200009611
3200013428
3200018535
3200010326
3200012774
3200015931
3200011334
3200018480
3200011608
3200010861
3200010860
3200011843
3200013679
3200008924
3200017991
3200010958
E201711484
E201706449
3200022457
3200022127
3200019308
3200018511
3200021481
3200022928
3200023781
3200022965
3200018811
3200020753
3200022121
3200022124
3200022468
3200022989
3200024160
3200024007
3200022442
3200022122
3200023162
3200022929
3200022294
3200007590
3200010031
3200014041
3200006868
3200013970
3300020709
3200015032
3300020708
3200011097
3200006869
3200014482
3200013400
3200012341
3200019787
3200019860
3200022231
3200019452
3200021008
3200008511
3200013514
3200017718
3200019309
3200019788
3200019816
3200020684
3200023089
3200025155
3200020026
3200018241
3200023791
3200019451
3200019303
3200013515
3200021026
3200008515
3200019815
3200018878
3200023840
3200022953
3200019954
3200019221
3200026618
3200019065
3200019814
3200023839
3200020209
3200019372
3200015627
3200013769

N

Legend

- Agricultural/Horticutural/Aqua Irrigation Well
- Domestic Well
- Industrial Well
- Irrigation Well
- Non-Public Well
- Public Non-Community Well
- Site_Parcel
- Half Mile Search Radius
- One Mile Search Radius
- Well Head Protection
- Municipal Boundary

2600007686 Well Permit Number

Notes:
1) Wells shown are located within 1 mile of Old York Road - Burlington Clay and Engineering Site, Burlington, Twp, NJ.
Boundaries and Wells were plotted using easting, northing coordinates in the NAD83 State Plane New Jersey feet coordinate system,

2) Two well head protection areas were found within the search radius.

3) Aerial Imagery Source: ESRI.

0 0.125 0.25 0.5 Miles

Well Search

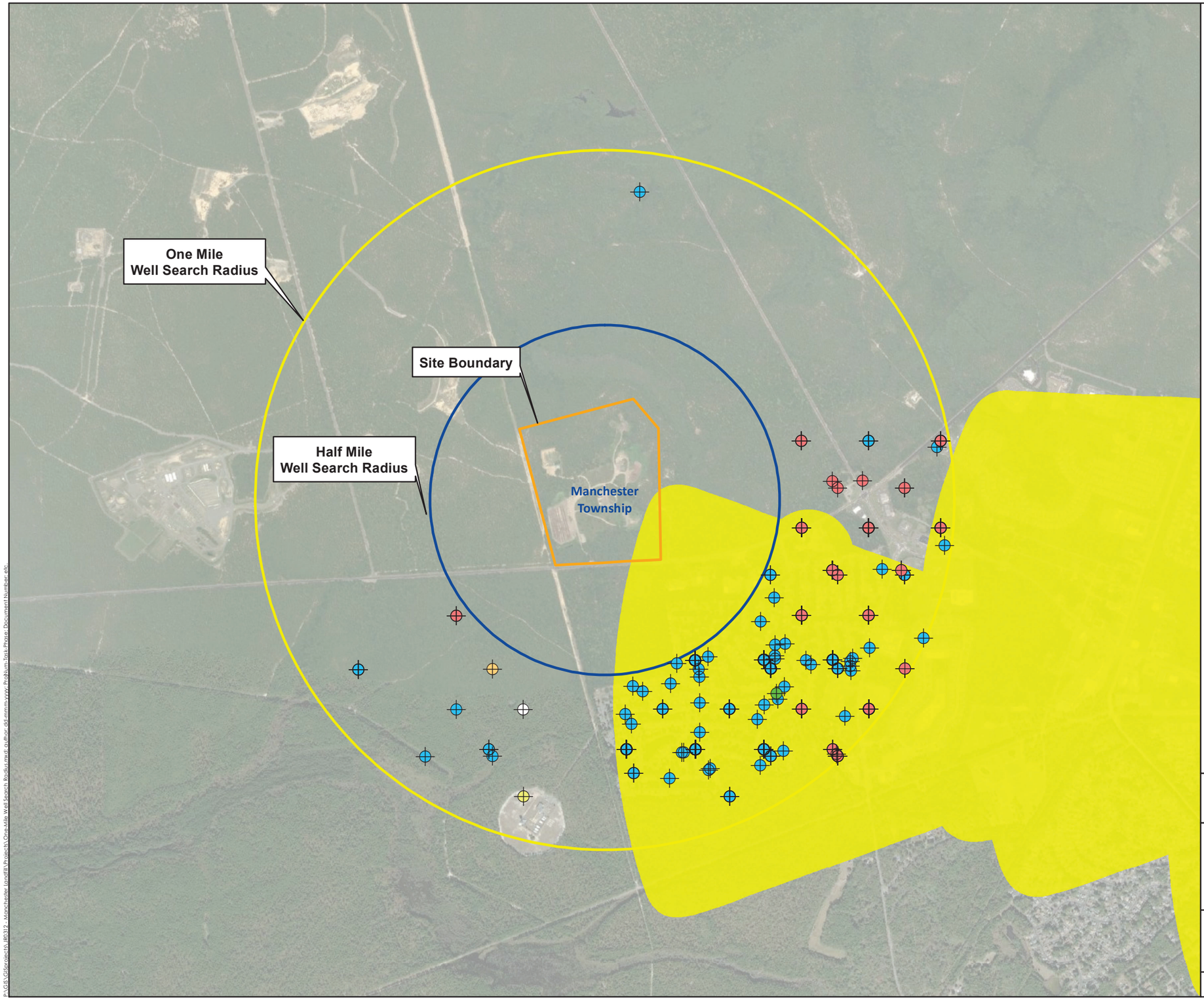
Manchester Township Landfill
110 Sam Pitts Road
Manchester Township, New Jersey

Geosyntec consultants

Blue Bell, PA | 18 APRIL 2022

Figure 2

P:\GIS\GISprojects\JB0312 - Manchester Landfill\Projects\One-Mile Well Search Radius\ oneMile.mxd; author: dds-mmm-yyyy; ProjNum-Task-Phase; Document Number, etc.



N

Legend

- Agricultural/Horticutural/Aqua Irrigation Well
- Domestic Well
- Industrial Well
- Irrigation Well
- Non-Public Well
- Public Non-Community Well
- Site_Parcel
- Half Mile Search Radius
- One Mile Search Radius
- Well Head Protection
- Municipal Boundary
- **2600007686** Well Permit Number

Notes:
1) Wells shown are located within 1 mile of Old York Road - Burlington Clay and Engineering Site, Burlington, Twp, NJ.
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0 0.125 0.25 0.5 Miles

Well Search

Manchester Township Landfill
110 Sam Pitts Road
Manchester Township, New Jersey

Geosyntec consultants

Blue Bell, PA | 18 APRIL 2022

Figure 2

P:\GIS\GISprojects\JR0312 - Manchester Landfill\Projects\One-Mile Well Search Radius.mxd, author, dd-mmm-yyyy, ProjNum-Task-Phase, Document Number, etc.

CRESTWOOD VILLAGE WATER COMPANY

SERVICE AREA MAP

WHITING ELEMENTARY SCHOOL

MEADOWS WEST

WHITING COMMONS

WHITING ASSEMBLY OF GOD CHURCH

CRESTWOOD MANOR EXPANSION

COLONY PROPERTIES

WELL NO. 6

WELL NO. 7

WELL NO. 8

WELL NO. 10

WELL NO. 5

WELL NO. 3

WELL NO. 4

WELL NO. 1

POSSIBLE FUTURE WELL SITE

KMACC

WHITING HEALTH CARE CENTER

WHITING VILLAGE SHOPPING CENTER EXPANSION

WHITING VILLAGE SHOPPING CENTER

NEW-EXISTING WELL #8

BOOSTER PUMPS

GROUND STORAGE TANK

JERSEY CENTRAL POWER & LIGHT CO

VILLAGE I

VILLAGE II

VILLAGE III

VILLAGE IV

VILLAGE V

VILLAGE VI

VILLAGE VII

CRESTWOOD MANOR

STONEPIPE

WHITING STATION AT CRESTWOOD

THE MEADOWS OF LAKE RIDGE

WHITING MEMORIAL PARK

STATE OF NEW JERSEY FISH AND GAME COMMISSION

KEESHOC LAKE

PINE RIDGE EXPANSION

PINE RIDGE AT CRESTWOOD

PINE RIDGE MOBILE HOME PARK

PINE RIDGE SOUTH

MANCHESTER TWP.

BERKELEY TWP.

LACEY TWP.

LOT 1

LOT 2

LOT 3

LOT 4

LOT 5

LOT 6

LOT 7

LOT 20

LOT 21

LOT 22

Hatch Mott MacDonald

P:\AUTOCAD-DRAWINGS\2814 - CRESTWOOD\SERVICE-AREA-MAP.DWG 01/27/2003

Well Permitting XY Well Search - 976 wells found within One Mile of Easting = 518880 Northing = 410709

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Download Document	Permit Number	Well Use	Potentially Potable	Document	Date (permitted /drilled /sealed)	Physical Address	County	Municipality	Block	Lot	Location Method	Easting (X)	Northing (Y)	Distance (Feet)	Depth (ft)	Capacity (gal/min)
PDF Document	E202006061	Irrigation Replacement	Yes	Permit	6/11/2020	5 Illinois Dr	Ocean	Manchester Twp	113	1	Digital Image	520956	408176	3,275.04	80	20
PDF Document	E202002351	Irrigation	Yes	Record	4/7/2020	Woodside Lane NEW OWNER per Duane	Ocean	Manchester Twp	109.03	18	GPS	523201	408437	4,881.91	100	50
PDF Document	E202002351	Irrigation	Yes	Permit	3/10/2020	Woodside Lane NEW OWNER per Duane	Ocean	Manchester Twp	109.03	18	Digital Image	523201	408437	4,881.91	100	30
PDF Document	E202002350	Irrigation	Yes	Record	4/6/2020	Woodside Lane NEW OWNER per Duane	Ocean	Manchester Twp	109.03	18	GPS	523784	408419	5,412.33	100	50
PDF Document	E202002350	Irrigation	Yes	Permit	3/10/2020	Woodside Lane NEW OWNER per Duane	Ocean	Manchester Twp	109.03	18	Digital Image	523784	408419	5,412.33	100	30
PDF Document	E201809159	Irrigation	Yes	Record	9/19/2018	14 ARIZONA AVE WHITING 08759	Ocean	Manchester Twp	113	1	GPS	519955	406446	4,396.45	86	12
PDF Document	E201809159	Irrigation	Yes	Permit	9/7/2018	14 ARIZONA AVE WHITING 08759	Ocean	Manchester Twp	113	1	Digital Image	519955	406446	4,396.45	100	12
PDF Document	E201806912	Irrigation	Yes	Permit	8/1/2018	RT 539	Ocean	Manchester Twp	109.01	91	GPS	522497	406390	5,633.51	110	30
PDF Document	E201805942	Irrigation	Yes	Record	7/11/2018	13 VIRGINIA DR WHITING	Ocean	Manchester Twp	113	1	GPS	519816	407860	2,998.82	86	20
PDF Document	E201805942	Irrigation	Yes	Permit	6/20/2018	13 VIRGINIA DR WHITING	Ocean	Manchester Twp	113	1	Digital Image	519816	407860	2,998.82	100	12
PDF Document	E201805928	Irrigation Replacement	Yes	Record	8/22/2018	10 florida ct	Ocean	Manchester Twp	111	8	GPS	521426	408108	3,639.69	80	10
PDF Document	E201805928	Irrigation Replacement	Yes	Permit	6/21/2018	10 florida ct	Ocean	Manchester Twp	111	8	Digital Image	521427	408109	3,639.67	100	10
PDF Document	E201711484	Irrigation	Yes	Record	10/13/2017	1360 Highway 70	Ocean	Manchester Twp	113	9	GPS	519808	409484	1,536.82	70	
PDF Document	E201711484	Irrigation	Yes	Permit	10/10/2017	1360 Highway 70	Ocean	Manchester Twp	113	9	GPS	519808	409484	1,536.82	100	20
PDF Document	E201710314	Irrigation	Yes	Record	10/24/2017	WOODVIEW DR WHITING	Ocean	Manchester Twp	83.01	109	GPS	524143	410993	5,270.66	116	50
PDF Document	E201710314	Irrigation	Yes	Permit	10/13/2017	WOODVIEW DR WHITING	Ocean	Manchester Twp	83.01	109	Digital Image	524143	410993	5,270.66	100	50
PDF Document	E201710088	Irrigation	Yes	Record	9/15/2017	10 B Arizona Ave.	Ocean	Manchester Twp	113	1	GPS	519983	406471	4,379.18	73	
PDF Document	E201710088	Irrigation	Yes	Permit	9/6/2017	10 B Arizona Ave.	Ocean	Manchester Twp	113	1	GPS	519983	406471	4,379.18	100	20
PDF Document	E201708125	Irrigation Replacement	Yes	Record	8/21/2017	12 florida ct	Ocean	Manchester Twp	111	8	GPS	521501	408042	3,739.32	80	10
PDF Document	E201708125	Irrigation Replacement	Yes	Permit	7/18/2017	12 florida ct	Ocean	Manchester Twp	111	8	Digital Image	521502	408041	3,740.74	100	10

PDF Document	E201707317	Irrigation Replacement	Yes	Record	7/14/2017	36 maine ave	Ocean	Manchester Twp	113	1	GPS	518810	407719	2,990.82	80	10
PDF Document	E201707317	Irrigation Replacement	Yes	Permit	6/27/2017	36 maine ave	Ocean	Manchester Twp	113	1	Digital Image	518810	407719	2,990.82	100	20
PDF Document	E201706449	Irrigation	Yes	Record	6/16/2017	44 MICHIGAN AVE WHITING	Ocean	Manchester Twp	113	1	GPS	520239	408945	2,226.79	88	10
PDF Document	E201706449	Irrigation	Yes	Permit	6/6/2017	44 MICHIGAN AVE WHITING	Ocean	Manchester Twp	113	1	Digital Image	520239	408945	2,226.79	100	12
PDF Document	E201705815	Domestic	Yes	Permit	6/5/2017	307 LAKEWOOD AVE, MANCHESTER	Ocean	Manchester Twp	85.13	1.01 (PL 17)	Digital Image	524785	409995	5,948.01	100	20
PDF Document	E201703805	Irrigation	Yes	Record	4/14/2017	Hwy 70	Ocean	Manchester Twp	111	8	GPS	522130	408132	4,147.7	83	
PDF Document	E201703805	Irrigation	Yes	Permit	4/10/2017	Hwy 70	Ocean	Manchester Twp	111	8	GPS	522130	408132	4,147.7	100	20
PDF Document	E201613339	Irrigation	Yes	Permit	11/4/2016	5B Vermont Way	Ocean	Manchester Twp	113	1870 (PL 1)	Digital Image	519820	407463	3,379.37	100	20
PDF Document	E201613339	Irrigation	Yes	Record	4/18/2017	5B Vermont Way	Ocean	Manchester Twp	113	1870 (PL 1)	GPS	519820	407463	3,379.37	65	12
PDF Document	E201611434	Irrigation	Yes	Permit	9/21/2016	5A Texas Blvd	Ocean	Manchester Twp	113	1	Digital Image	520990	407497	3,843.05	100	10
PDF Document	E201611434	Irrigation	Yes	Record	10/18/2016	5A Texas Blvd	Ocean	Manchester Twp	113	1	GPS	521003	407518	3,832.7	80	20
PDF Document	E201611323	Irrigation Replacement	Yes	Record	10/6/2016	48-A TEXAS BLVD, WHITING, NJ	Ocean	Manchester Twp	113	1	GPS	518819	406401	4,308.43	80	20
PDF Document	E201611323	Irrigation Replacement	Yes	Permit	9/21/2016	48-A TEXAS BLVD, WHITING, NJ	Ocean	Manchester Twp	113	1	Digital Image	518819	406401	4,308.43	100	12
PDF Document	E201607368	Irrigation	Yes	Record	7/28/2016	123 WOODVIEW DRIVE,WHITING, NJ	Ocean	Manchester Twp	83.06	1	GPS	523408	411323	4,569.44	112	70
PDF Document	E201607368	Irrigation	Yes	Permit	6/22/2016	123 WOODVIEW DRIVE,WHITING, NJ	Ocean	Manchester Twp	83.06	1	Digital Image	523408	411323	4,569.44	100	55
PDF Document	E201607342	Irrigation	Yes	Permit	6/23/2016	1 Missouri Rd	Ocean	Manchester Twp	113	1516	Digital Image	520961	408344	3,150.2	100	20
PDF Document	E201606854	Domestic Replacement	Yes	Permit	6/10/2016	64 Cherry St	Ocean	Manchester Twp	107	3	Digital Image	524638	405936	7,479.04	100	12
PDF Document	E201606854	Domestic Replacement	Yes	Record	7/7/2016	64 Cherry St	Ocean	Manchester Twp	107	3	GPS	524611	405869	7,501.33	90	12
PDF Document	E201605680	Irrigation	Yes	Permit	5/16/2016	5 Illinois Drive	Ocean	Manchester Twp	113	1	GPS	520960	408127	3,315.59	100	12
PDF Document	E201511320	Irrigation Replacement	Yes	Permit	9/24/2015	19B Maryland Ave	Ocean	Manchester Twp	113	1	GPS	520734	406516	4,584.6	100	12
PDF Document	E201509808	Irrigation Replacement	Yes	Permit	8/24/2015	2 Hawaii Way	Ocean	Manchester Twp	113	1161	GPS	520945	409052	2,647.62	100	12
PDF Document	E201507445	Irrigation	Yes	Permit	7/7/2015	5 ILLINOIS AVE, MANCHESTER, NJ	Ocean	Manchester Twp	115.30	13	Digital Image	518917	415176	4,467.15	100	12
PDF Document	E201506887	Irrigation	Yes	Record	7/1/2015	2 Montana Dr.	Ocean	Manchester Twp	113	1.528	GPS	519823	407019	3,808.59	84	
PDF Document	E201506887	Irrigation	Yes	Permit	6/19/2015	2 Montana Dr.	Ocean	Manchester Twp	113	1.528	GPS	519823	407019	3,808.59	100	20

PDF Document	E201414795	Domestic	Yes	Record	1/15/2015	58 cherry st	Ocean	Manchester Twp	107	4	GPS	524155	405761	7,232.45	75	20
PDF Document	E201414795	Domestic	Yes	Permit	11/21/2014	58 cherry st	Ocean	Manchester Twp	107	4	Digital Image	524173	405755	7,249.69	100	20
PDF Document	E201409340	Irrigation	Yes	Record	7/30/2014	150 County Rt.539	Ocean	Manchester Twp	111	11.08	GPS	522016	407259	4,662.3	82	
PDF Document	E201409340	Irrigation	Yes	Permit	7/17/2014	150 County Rt.539	Ocean	Manchester Twp	111	11.08	GPS	522016	407259	4,662.3	100	20
PDF Document	E201403534	Agric/Hort/Aqua Irrigation	Yes	Record	4/7/2014	6 Texas Blvd	Ocean	Manchester Twp	113	1	GPS	520983	407605	3,749.32	93	12
PDF Document	E201403534	Agric/Hort/Aqua Irrigation	Yes	Permit	3/28/2014	6 Texas Blvd	Ocean	Manchester Twp	113	1	Digital Image	520983	407605	3,749.32	100	10
PDF Document	E201315907	Irrigation	Yes	Record	4/8/2014	400 Old Lacey Road	Ocean	Manchester Twp	110	1	GPS	523519	409843	4,719.14	86	
PDF Document	E201315907	Irrigation	Yes	Permit	10/30/2013	400 Old Lacey Road	Ocean	Manchester Twp	110	1	GPS	523519	409843	4,719.14	100	20
PDF Document	E201313550	Irrigation Replacement	Yes	Record	10/1/2013	9B Indiana Way	Ocean	Manchester Twp	113	1	GPS	520741	408687	2,748.05	95	12
PDF Document	E201313550	Irrigation Replacement	Yes	Permit	9/23/2013	9B Indiana Way	Ocean	Manchester Twp	113	1	GPS	520741	408687	2,748.05	100	12
PDF Document	E201306525	Irrigation	Yes	Record	6/13/2013	3B Maine Ave	Ocean	Manchester Twp	113	1	GPS	521099	407704	3,735.5	80	12
PDF Document	E201306525	Irrigation	Yes	Permit	5/15/2013	3B Maine Ave	Ocean	Manchester Twp	113	1	GPS	521099	407704	3,735.5	100	12
PDF Document	E201217037	Domestic	Yes	Record	5/7/2013	Roosevelt City Rd	Ocean	Manchester Twp	111	11.09	GPS	521887	406686	5,022.61	100	20
PDF Document	E201217037	Domestic	Yes	Permit	11/13/2012	Roosevelt City Rd	Ocean	Manchester Twp	111	11.09	GPS	521887	406686	5,022.61	100	20
PDF Document	E201211893	Irrigation	Yes	Record	7/13/2012	11 TEXAS AVE,WHITING, NJ 08759	Ocean	Manchester Twp	113	1.000	GPS	520797	407435	3,793.94	90	12
PDF Document	E201211893	Irrigation	Yes	Record	8/13/2012	11 TEXAS AVE,WHITING, NJ 08759	Ocean	Manchester Twp	113	1.000	GPS	520797	407435	3,793.94	90	12
PDF Document	E201211893	Irrigation	Yes	Permit	8/7/2012	11 TEXAS AVE,WHITING, NJ 08759	Ocean	Manchester Twp	113	1.000	GPS	520797	407435	3,793.94	100	12
PDF Document	E201206364	Irrigation	Yes	Record	5/16/2012	9 A Kentucky	Ocean	Manchester Twp	111	8.000	GPS	522095	408019	4,191.94	93	12
PDF Document	E201206364	Irrigation	Yes	Permit	5/2/2012	9 A Kentucky	Ocean	Manchester Twp	111	8.000	GPS	522095	408019	4,191.94	100	12
PDF Document	E201206169	Irrigation	Yes	Record	5/15/2012	9 B Kentucky	Ocean	Manchester Twp	111	8.000	GPS	522096	408095	4,144.35	93	12
PDF Document	E201206169	Irrigation	Yes	Permit	4/24/2012	9 B Kentucky	Ocean	Manchester Twp	111	8.000	GPS	522096	408095	4,144.35	100	12
PDF Document	E201109199	Irrigation	Yes	Record	6/23/2011	11 Kentucky Way	Ocean	Manchester Twp	111	8	GPS	522104	407950	4,243.38	78	12
PDF Document	E201109199	Irrigation	Yes	Permit	6/14/2011	11 Kentucky Way	Ocean	Manchester Twp	111	8	GPS	522104	407950	4,243.38	100	12
PDF Document	E201106012	Irrigation Replacement	Yes	Record	5/26/2011	Michigan Ave..	Ocean	Manchester Twp	113	1	GPS	518963	407640	3,070.12	62	
PDF Document	E201106012	Irrigation Replacement	Yes	Permit	4/26/2011	Michigan Ave..	Ocean	Manchester Twp	113	1	GPS	518963	407640	3,070.12	100	20
PDF Document	E201104688	Irrigation Replacement	Yes	Record	5/7/2011	12 VERMONT WAY,WHITING, NJ 08759	Ocean	Manchester Twp	113	1877	GPS	519383	407752	2,999.48	82	12

PDF Document	E201104688	Irrigation Replacement	Yes	Permit	4/29/2011	12 VERMONT WAY,WHITING, NJ 08759	Ocean	Manchester Twp	113	1877	GPS	519383	407752	2,999.48	100	12
PDF Document	E201104423	Irrigation	Yes	Record	4/8/2011	2 B OHIO COURT, MANCHESTER, NJ 08759	Ocean	Manchester Twp	113	1	GPS	518789	407143	3,567.16	90	12
PDF Document	E201104423	Irrigation	Yes	Permit	4/1/2011	2 B OHIO COURT, MANCHESTER, NJ 08759	Ocean	Manchester Twp	113	1	GPS	518789	407143	3,567.16	100	12
PDF Document	E201009286	Irrigation	Yes	Permit	8/24/2010	16-A Ohio Drive	Ocean	Manchester Twp	113	1662	GPS	518695	407294	3,420.01	100	20
	P201009058	Irrigation	Yes	Permit	8/10/2010	20 ROOSEVELT CITY ROAD	Ocean	Manchester Twp	113	1.000	GPS	521112	408357	3,242.49	100	12
	P201009058	Irrigation	Yes	Record	8/25/2010	20 ROOSEVELT CITY ROAD	Ocean	Manchester Twp	113	1.000	GPS	521112	408357	3,242.49	82	12
PDF Document	E201007931	Irrigation	Yes	Record	8/1/2010	21 Pennsylvania Dr	Ocean	Manchester Twp	111	8.232	GPS	522575	409485	3,892.45	88	20
PDF Document	E201007931	Irrigation	Yes	Permit	7/22/2010	21 Pennsylvania Dr	Ocean	Manchester Twp	111	8.232	GPS	522575	409458	3,901.03	100	12
PDF Document	E201007579	Domestic Replacement	Yes	Record	8/4/2010	511 Highway 539	Ocean	Manchester Twp	79	50	GPS	522283	410820	3,404.81	110	
PDF Document	E201007579	Domestic Replacement	Yes	Record	8/4/2010	511 Highway 539	Ocean	Manchester Twp	79	50	GPS	522283	410820	3,404.81	110	20
PDF Document	E201007579	Domestic Replacement	Yes	Permit	7/14/2010	511 Highway 539	Ocean	Manchester Twp	79	50	GPS	522283	410820	3,404.81	120	20
	P201003806	Irrigation	Yes	Permit	4/20/2010	WASHINGTON LANE	Ocean	Manchester Twp	111	8	GPS	522382	408305	4,247.73	100	30
	P201003806	Irrigation	Yes	Record	7/5/2010	WASHINGTON LANE	Ocean	Manchester Twp	111	8	GPS	522386	408294	4,257.26	105	25
PDF Document	E201003219	Irrigation	Yes	Record	4/22/2010	#7A Wyoming Ave.	Ocean	Manchester Twp	113	1	GPS	519946	408160	2,762.93	71	
PDF Document	E201003219	Irrigation	Yes	Permit	4/9/2010	#7A Wyoming Ave.	Ocean	Manchester Twp	113	1	GPS	519946	408160	2,762.93	100	20
	P200912126	Irrigation	Yes	Permit	10/6/2009	46 MICHIGAN AVENUE	Ocean	Manchester Twp	1495	113	GPS	519476	408056	2,719.12	100	20
	P200912126	Irrigation	Yes	Record	10/15/2009	46 MICHIGAN AVENUE	Ocean	Manchester Twp	1495	113	GPS	519476	408056	2,719.12	72	0
	P200910855	Irrigation	Yes	Permit	9/9/2009	BEHIND # 87 / WOODVIEW DRIVE	Ocean	Manchester Twp	83.02	56	GPS	524728	410147	5,874.94	100	50
	P200910855	Irrigation	Yes	Record	9/30/2009	BEHIND # 87 / WOODVIEW DRIVE	Ocean	Manchester Twp	83.02	56	GPS	524728	410147	5,874.94	162	50
	P200907326	Irrigation	Yes	Permit	6/15/2009	2 LOUISIANA WAY	Ocean	Manchester Twp	113	1.000	GPS	520694	407221	3,931.51	100	20
	P200907326	Irrigation	Yes	Record	7/6/2009	2 LOUISIANA WAY	Ocean	Manchester Twp	113	1.000	GPS	520692	407220	3,931.47	95	20
	P200907062	Irrigation	Yes	Permit	6/10/2009	5B OREGON DRIVE	Ocean	Manchester Twp	113	1.000	Prop Loc - Dig Image	521087	406738	4,543.09	100	20
	P200907062	Irrigation	Yes	Record	7/8/2009	5B OREGON DRIVE	Ocean	Manchester Twp	113	1.000	GPS	521087	406738	4,543.09	80	20

		Public Noncommunity Without Permit	Yes	Virtual Permit	1/1/2010	1360 RT 70	Ocean	Manchester Twp			Approx. Addr. Match	519788	409577			
PDF Document	A1611018	Domestic	Yes	Decommissioning	12/9/2016	64 Cherry St	Ocean	Manchester Twp	107	3	GPS	524610	405843	7,517.37		
PDF Document	A1609065	Irrigation	Yes	Decommissioning	10/6/2016	48-A TEXAS BLVD, MANCHESTER, NJ	Ocean	Manchester Twp	113	1	GPS	518824	406405	4,304.36		
	3200010557	Irrigation	Yes	Permit	8/15/1984	23 GEORGIA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519364	406324	4,411.63	80	25
	3200010557	Irrigation	Yes	Record	8/28/1984	2 B GEORGIA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519364	406324	4,411.63	69	25
		Domestic	Yes	Decommissioning	8/4/2010	511 ROUTE 539	Ocean	Manchester Twp	79	50	Digital Image	522226	410883	3,350.52		
	3300046770	Irrigation	Yes	Permit	7/17/2008	1321 SPRAY AVE.	Ocean	Beachwood Boro	1141	5	Prop Loc - Dig Image	519582	406715	4,055.5	100	20
	3200030119	Irrigation	Yes	Record	7/29/2008	1-B KANSAS ST.	Ocean	Manchester Twp	11.3	1.254	GPS	519552	406714	4,051.12	73	0
	3200029973	Domestic Replacement	Yes	Permit	4/7/2008	1820 BROOKLYN AVE.	Ocean	Manchester Twp	99.104	4	Prop Loc - Hard Copy	525022	407981		100	10
	3200029973	Domestic Replacement	Yes	Record	4/11/2008	1820 BROOKLYN AVE.	Ocean	Manchester Twp	99.104	4	Prop Loc - Hard Copy	525022	407981		138	10
	3200029889	Irrigation	Yes	Permit	2/25/2008	451 OLD LACEY ROAD	Ocean	Manchester Twp	110	3.03	Prop Loc - Hard Copy	522917	409395		100	25
	3200029889	Irrigation	Yes	Record	4/19/2008	451 OLD LACEY ROAD	Ocean	Manchester Twp	110	3.03	Prop Loc - Hard Copy	522917	409395		100	20
	3200029788	Public Non-Community	Yes	Permit	11/19/2007	BLDG 9605 GRAND CONCOURSE	Ocean	Manchester Twp	1	118	Prop Loc - Hard Copy	512558	413431		250	30
	3200029788	Public Non-Community	Yes	Record	12/14/2007	BLDG 9605 GRAND CONCOURSE	Ocean	Manchester Twp	1	118	Prop Loc - Hard Copy	512558	413431		135	30
	3200029784	Irrigation	Yes	Permit	11/15/2007	2 IDAHO DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520893	409393		100	20
	3200029784	Irrigation	Yes	Record	12/7/2007	2 IDAHO DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520893	409393		72	0
	3200029775	Irrigation	Yes	Permit	11/14/2007	LACEY RD	Ocean	Manchester Twp	110	3.02	Prop Loc - Hard Copy	524007	409396		100	35
	3200029775	Irrigation	Yes	Record	12/18/2007	LACEY RD	Ocean	Manchester Twp	110	3.02	Prop Loc - Hard Copy	524007	409396		100	35
	3200029738	Public Non-Community Replacement	Yes	Permit	10/3/2007	RT 70	Ocean	Manchester Twp	118	1	Prop Loc - Hard Copy	516689	407972		200	30
	3200029738	Public Non-Community Replacement	Yes	Record	11/1/2007	RT 70	Ocean	Manchester Twp	118	1	Prop Loc - Hard Copy	516689	407972		154	30
	3200000209	Domestic	Yes	Record	9/27/1955	LAKEWOOD AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	524941	409465	6,187.69	71	0

	3200029689	Irrigation	Yes	Permit	8/27/2007	46 ROOSEVELT CITY ROAD	Ocean	Manchester Twp	113	1734	Prop Loc - Hard Copy	520898	405345		100	20
	3200029689	Irrigation	Yes	Record	9/11/2007	46 ROOSEVELT CITY ROAD	Ocean	Manchester Twp	113	1734	Prop Loc - Hard Copy	520898	405345		72	0
	3200029655	Domestic Replacement	Yes	Permit	8/1/2007	1421 NEWARK AVE	Ocean	Manchester Twp	99.197	7	Prop Loc - Hard Copy	525022	407981		100	10
	3200029655	Domestic Replacement	Yes	Record	8/1/2007	1421 NEWARK AVE	Ocean	Manchester Twp	99.197	7	Prop Loc - Hard Copy	525022	407981		78	10
	3200029556	Domestic Replacement	Yes	Permit	6/19/2007	851 MONROE AVE.	Ocean	Manchester Twp	99.49	1	Prop Loc - Hard Copy	525022	407981		100	25
	3200029556	Domestic Replacement	Yes	Record	6/21/2007	851 MONROE AVE.	Ocean	Manchester Twp	99.49	1	Prop Loc - Hard Copy	525022	407981		78	25
	3200029517	Irrigation	Yes	Permit	5/22/2007	15 GEORGIA WAY	Ocean	Manchester Twp	113	1152	Prop Loc - Hard Copy	521908	406662		100	20
	3200029517	Irrigation	Yes	Record	6/19/2007	15 GEORGIA WAY	Ocean	Manchester Twp	113	1152	Prop Loc - Hard Copy	521908	406662		80	20
	3200029468	Public Non-Community Replacement	Yes	Permit	4/20/2007	1330 RT. 70	Ocean	Manchester Twp	113	8	Prop Loc - Hard Copy	521905	409394		100	15
	3200029468	Public Non-Community Replacement	Yes	Record	4/20/2007	1330 RT. 70	Ocean	Manchester Twp	113	8	Prop Loc - Hard Copy	521905	409394		107	20
	3200029453	Domestic Replacement	Yes	Permit	4/12/2007	1921 DELAWARE AVE.	Ocean	Manchester Twp	99-80	5	Prop Loc - Hard Copy	521905	409394		100	20
	3200029453	Domestic Replacement	Yes	Record	4/12/2007	1921 DELAWARE AVE.	Ocean	Manchester Twp	99-80	5	Prop Loc - Hard Copy	521905	409394		86	20
	3200029276	Domestic Replacement	Yes	Permit	11/27/2006	451 OLD LACY RD	Ocean	Manchester Twp	11	83	Prop Loc - Hard Copy	524007	409396		100	10
	3200029276	Domestic Replacement	Yes	Record	11/28/2006	451 OLD LACY RD	Ocean	Manchester Twp	11	83	Prop Loc - Hard Copy	524007	409396		110	10
	3200029257	Domestic Replacement	Yes	Permit	11/8/2006	1880 PERTH AMBOY AVE.	Ocean	Manchester Twp	99.100	1	Prop Loc - Hard Copy	525022	407981		100	20
	3200029257	Domestic Replacement	Yes	Record	11/13/2006	1880 PERTH AMBOY AVE.	Ocean	Manchester Twp	99.100	1	Prop Loc - Hard Copy	525022	407981		65	20
	3200029236	Irrigation	Yes	Permit	10/18/2006	14 WYOMING AVENUE	Ocean	Manchester Twp	113	1000	Prop Loc - Hard Copy	521907	407977		100	20
	3200029236	Irrigation	Yes	Record	10/31/2006	14 WYOMING AVENUE	Ocean	Manchester Twp	113	1000	Prop Loc - Hard Copy	521907	407977		90	20
	3200029102	Irrigation	Yes	Permit	8/2/2006	16 MONTANA DR.	Ocean	Manchester Twp	113	25	Prop Loc - Hard Copy	520896	406661		75	20
	3200029102	Irrigation	Yes	Record	8/15/2006	16 MONTANA DR.	Ocean	Manchester Twp	113	25	Prop Loc - Hard Copy	520896	406661		72	0
	3200028894	Domestic Replacement	Yes	Permit	4/12/2006	1861 PERTH AMBOY AVE.	Ocean	Manchester Twp	99.101	9	Prop Loc - Hard Copy	525022	407981		100	10
	3200028894	Domestic Replacement	Yes	Record	4/13/2006	1861 PERTH AMBOY AVE.	Ocean	Manchester Twp	99.101	9	Prop Loc - Hard Copy	525022	407981		78	10
	3200028891	Irrigation	Yes	Permit	4/6/2006	13 RHODE ISLAND DR.	Ocean	Manchester Twp	113	1699	Prop Loc - Hard Copy	520896	406661		70	20
	3200028891	Irrigation	Yes	Record	5/10/2006	13 RHODE ISLAND DR.	Ocean	Manchester Twp	113	1699	Prop Loc - Hard Copy	520896	406661		72	0

	3200028884	Irrigation	Yes	Permit	4/3/2006	ROUTE 70 & ROUTE 539	Ocean	Manchester Twp	83	3.04	Prop Loc - Hard Copy	522917	409395		100	12
	3200028884	Irrigation	Yes	Record	4/25/2006	ROUTE 70 & ROUTE 539	Ocean	Manchester Twp	83	3.04	Prop Loc - Hard Copy	522917	409395		120	35
	3200028878	Irrigation	Yes	Permit	3/27/2006	RT 530 & 539	Ocean	Manchester Twp	109	1	Prop Loc - Hard Copy	525020	409398		120	50
	3200028878	Irrigation	Yes	Record	6/22/2006	RT 530 & 539	Ocean	Manchester Twp	109	1	Prop Loc - Hard Copy	525020	409398		120	50
	3200028744	Irrigation	Yes	Permit	11/23/2005	450 LACEY ROAD (RT 530)	Ocean	Manchester Twp	109	1.01	Prop Loc - Hard Copy	522916	410710		80	20
	3200028744	Irrigation	Yes	Record	7/18/2006	450 LACEY ROAD (RT 530)	Ocean	Manchester Twp	109	1.01	Prop Loc - Hard Copy	522916	410710		108	15
	3200028517	Irrigation	Yes	Permit	6/17/2005	4-B OHIO COURT	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520893	409393		100	20
	3200028517	Irrigation	Yes	Record	7/8/2005	4-B OHIO COURT	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520893	409393		70	0
	3200028437	Domestic Replacement	Yes	Permit	4/29/2005	1380 ELIZABETH AVENUE	Ocean	Manchester Twp	99.235	1	Prop Loc - Hard Copy	525020	409398		120	20
	3200028437	Domestic Replacement	Yes	Record	5/2/2005	1380 ELIZABETH AVENUE	Ocean	Manchester Twp	99.235	1	Prop Loc - Hard Copy	525020	409398		90	20
	3200028248	Domestic Replacement	Yes	Permit	11/22/2004	600 RT 70	Ocean	Manchester Twp	88	4	Prop Loc - Hard Copy	522916	410710		100	12
	3200028248	Domestic Replacement	Yes	Record	11/23/2004	600 RT 70	Ocean	Manchester Twp	88	4	Prop Loc - Hard Copy	522916	410710		70	12
	3200027880	Irrigation	Yes	Permit	6/2/2004	11 WYOMING AVE.	Ocean	Manchester Twp	113	1952	Prop Loc - Hard Copy	521907	407977		100	20
	3200027880	Irrigation	Yes	Record	6/22/2004	11 WYOMING AVE.	Ocean	Manchester Twp	113	1952	Prop Loc - Hard Copy	521907	407977		110	20
	3200027821	Domestic Replacement	Yes	Permit	5/7/2004	204 LOCUST ST.	Ocean	Manchester Twp	85.15	1	Prop Loc - Hard Copy	522919	407978		100	16
	3200027821	Domestic Replacement	Yes	Record	6/7/2004	204 LOCUST ST.	Ocean	Manchester Twp	85.15	1	Prop Loc - Hard Copy	522919	407978		110	26
	3200000073	Domestic	Yes	Permit	2/15/1952		Burlington	North Hanover Twp			Prop Loc - Hard Copy	513022	416771		300	40
	3200000356	Domestic	Yes	Permit	5/15/1959		Ocean	Manchester Twp			Prop Loc - Hard Copy	521361	408786		30	10
	3200000356	Domestic	Yes	Record	6/25/1959	131 HWY 539	Ocean	Manchester Twp	109	4	Prop Loc - Dig Image	522869	406764	5,610.45	31	0
	3200000356	Domestic	Yes	Record	6/25/1959	131 ROUTE 539	Ocean	Manchester Twp	109	4	Prop Loc - Dig Image	521831	406763	4,927.54	31	0
	3200000291	Domestic	Yes	Permit	5/8/1957		Ocean	Manchester Twp			Prop Loc - Hard Copy	524477	407373		60	6
	3200000420	Industrial	Yes	Permit	8/16/1961		Ocean	Manchester Twp			Prop Loc - Hard Copy	517159	406050		100	50
	3200000420	Industrial	Yes	Record	10/27/1961	ROUTE 70	Ocean	Manchester Twp			Prop Loc - Hard Copy	517159	406050		46	0
	3200000914	Domestic	Yes	Permit	11/9/1972		Ocean	Manchester Twp			Prop Loc - Hard Copy	521364	406054		60	15

	3200000914	Domestic	Yes	Record	11/13/1972	200 ROUTE 539	Ocean	Manchester Twp	112	3.01	Prop Loc - Hard Copy	521364	406054		79	0
	3200000872	Domestic	Yes	Record	10/22/1972	CHERRY ST	Ocean	Manchester Twp			Prop Loc - Dig Image	524945	406766	7,233.68	51	0
	3200000783	Domestic	Yes	Permit	12/27/1971		Ocean	Manchester Twp			Prop Loc - Hard Copy	522373	408787		60	8
	3200001468	Domestic	Yes	Permit	4/14/1975		Ocean	Manchester Twp	85-12	51-55	Prop Loc - Hard Copy	525486	410107		50	10
	3200001408	Domestic	Yes	Permit	1/14/1975		Ocean	Manchester Twp	E2	47	Prop Loc - Hard Copy	524475	408790		85	15
	3200001330	Domestic	Yes	Permit	7/9/1974		Ocean	Manchester Twp	852	30	Prop Loc - Hard Copy	525486	410107		70	8
	3200027706	Irrigation	Yes	Permit	3/25/2004	7A WYOMING AVE.	Ocean	Manchester Twp	113	1945	Prop Loc - Hard Copy	521908	406662		100	20
	3200027706	Irrigation	Yes	Record	4/23/2004	7A WYOMING AVE.	Ocean	Manchester Twp	113	1945	Prop Loc - Hard Copy	521908	406662		110	20
	3200002394	Domestic	Yes	Permit	10/7/1976		Ocean	Manchester Twp	107	13	Prop Loc - Hard Copy	522375	407371		28	8
	3200002379	Domestic	Yes	Permit	9/29/1976		Ocean	Manchester Twp	99-93	4	Prop Loc - Hard Copy	516144	408780		40	12
	3200002378	Domestic	Yes	Permit	9/29/1976		Ocean	Manchester Twp	99-87	2	Prop Loc - Hard Copy	516144	408780		45	8
	3200002286	Public Non-Community	Yes	Permit	9/15/1976		Ocean	Manchester Twp			Prop Loc - Hard Copy	525486	410107		130	69
	3200002286	Public Non-Community	Yes	Record	9/1/1976	MANCHESTER AVE	Ocean	Manchester Twp			Prop Loc - Hard Copy	525486	410107		126	69
	3200002180	Domestic	Yes	Permit	7/19/1976		Ocean	Manchester Twp	107	17	Prop Loc - Hard Copy	524479	406058		50	10
	3200002180	Domestic	Yes	Record	7/28/1976	46 CHERRY STREET	Ocean	Manchester Twp	107	17	Prop Loc - Dig Image	522871	405415	6,629.94	54	14.8
	3200002106	Domestic	Yes	Permit	6/30/1976		Ocean	Manchester Twp	99-87	4	Prop Loc - Hard Copy	525477	416784		60	10
	3200002072	Domestic	Yes	Permit	6/15/1976		Ocean	Manchester Twp	85-14	7,10,12,	Prop Loc - Hard Copy	524477	407373		50	5
	3200002072	Domestic	Yes	Record	6/22/1976	300 LACEY ROAD	Ocean	Manchester Twp	85-14	7	Prop Loc - Dig Image	523904	409464	5,176.15	53	5
	3200002056	Domestic	Yes	Permit	6/14/1976		Ocean	Manchester Twp	99-59	1	Prop Loc - Hard Copy	525491	406059		65	10
	3200001793	Domestic	Yes	Permit	2/10/1976		Ocean	Manchester Twp	110	1	Prop Loc - Hard Copy	525484	411422		50	5
	3300002857	Domestic	Yes	Permit	8/25/1975		Ocean	Lacey Twp			Prop Loc - Hard Copy	513022	416771		65	20
	3200002159	Domestic	Yes	Permit	7/12/1976		Ocean	Manchester Twp	85-16	12	Prop Loc - Hard Copy	524472	411421		50	10
	3200003883	Domestic	Yes	Permit	12/12/1977		Ocean	Manchester Twp	99-170	1	Prop Loc - Hard Copy	525488	408791		50	10
	3200003783	Irrigation	Yes	Permit	10/31/1977		Ocean	Manchester Twp			Prop Loc - Hard Copy	522371	410103		40	25

	3200003768	Domestic	Yes	Permit	10/19/1977		Ocean	Manchester Twp			Prop Loc - Hard Copy	522373	408787		150	30
	3200003768	Domestic	Yes	Record	10/24/1977	160 RT 530	Ocean	Manchester Twp	111	12	Prop Loc - Dig Image	521831	406763	4,927.54	95	0
	3200003766	Domestic	Yes	Permit	10/17/1977		Ocean	Manchester Twp	99-230	4	Prop Loc - Hard Copy	524477	407373		65	10
	3200003746	Irrigation	Yes	Permit	10/6/1977	PINE RIDGE	Ocean	Manchester Twp			Prop Loc - Hard Copy	523465	407372		40	25
	3200003733	Domestic	Yes	Permit	10/3/1977		Ocean	Manchester Twp	99-230	6	Prop Loc - Hard Copy	524477	407373		65	10
	3200003731	Irrigation	Yes	Permit	9/30/1977		Ocean	Manchester Twp			Prop Loc - Hard Copy	525486	410107		65	16
	3200003724	Domestic	Yes	Permit	9/29/1977		Ocean	Manchester Twp	99-252	17	Prop Loc - Hard Copy	524477	407373		65	10
	3200003723	Domestic	Yes	Permit	9/29/1977		Ocean	Manchester Twp	99-198	1	Prop Loc - Hard Copy	523463	408789		65	10
	3200003722	Domestic	Yes	Permit	9/29/1977		Ocean	Manchester Twp	99-231	3	Prop Loc - Hard Copy	521362	407370		65	10
	3200003719	Domestic	Yes	Record	10/10/1977	RT. 530 AT RT. 539	Ocean	Manchester Twp	111	7	Prop Loc - Dig Image	522866	409462	4,176.21	65	25
	3200003700	Domestic	Yes	Permit	9/23/1977		Ocean	Manchester Twp	99-230	8	Prop Loc - Hard Copy	524477	407373		65	10
	3200003520	Domestic	Yes	Permit	8/16/1977		Ocean	Manchester Twp	111	112	Prop Loc - Hard Copy	521366	404638		60	10
	3200003502	Domestic	Yes	Permit	8/10/1977		Ocean	Manchester Twp	99-251	3	Prop Loc - Hard Copy	524477	407373		65	10
	3200003432	Domestic	Yes	Permit	7/26/1977		Ocean	Manchester Twp	99-252	18	Prop Loc - Hard Copy	524477	407373		65	10
	3200003300	Domestic	Yes	Permit	6/27/1977		Ocean	Manchester Twp	99-251	16	Prop Loc - Hard Copy	524477	407373		65	10
	3200003208	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	E11	F	Prop Loc - Hard Copy	525488	408791		65	10
	3200003201	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	C18	F	Prop Loc - Hard Copy	524475	408790		65	10
	3200003200	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	C17	F	Prop Loc - Hard Copy	524477	407373		65	10
	3200003199	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	C14	F	Prop Loc - Hard Copy	523465	407372		65	10
	3200003198	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	H1	F	Prop Loc - Hard Copy	523463	408789		65	10
	3200003197	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	C16	F	Prop Loc - Hard Copy	524475	408790		65	10
	3200003196	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	C21	F	Prop Loc - Hard Copy	524477	407373		65	10
	3200003195	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	E18	F	Prop Loc - Hard Copy	524477	407373		65	10
	3200003194	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	G1	F	Prop Loc - Hard Copy	524477	407373		65	10

	3200003193	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	I8	F	Prop Loc - Hard Copy	524479	406058		65	10
	3200003192	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	G3	F	Prop Loc - Hard Copy	524477	407373		65	10
	3200003191	Domestic	Yes	Permit	6/9/1977		Ocean	Manchester Twp	E20	F	Prop Loc - Hard Copy	524477	407373		65	10
	3200003180	Irrigation	Yes	Record	10/19/1981	5 CENTRAL AVE	Ocean	Manchester Twp	102.24	40	Prop Loc - Dig Image	524947	405417	8,050.23	138	0
	3200003013	Domestic	Yes	Permit	4/29/1977		Ocean	Manchester Twp	99-218	3	Prop Loc - Hard Copy	523463	408789		50	10
	3200003012	Domestic	Yes	Permit	4/29/1977		Ocean	Manchester Twp	99-218	2	Prop Loc - Hard Copy	523462	410104		50	10
	3200003011	Domestic	Yes	Permit	4/29/1977		Ocean	Manchester Twp	99-218	1	Prop Loc - Hard Copy	523462	410104		50	10
	3200002960	Domestic	Yes	Permit	4/18/1977		Ocean	Manchester Twp	85-7	6	Prop Loc - Hard Copy	524475	408790		80	10
	3200002960	Domestic	Yes	Record	5/6/1977	76 CHERRY STREET	Ocean	Manchester Twp	107	1.03	Prop Loc - Dig Image	524945	406766	7,233.68	93	0
	3200002819	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-250	18	Prop Loc - Hard Copy	524479	406058		50	10
	3200002818	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-250	15	Prop Loc - Hard Copy	524472	411421		50	10
	3200002817	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-249	1	Prop Loc - Hard Copy	524472	411421		50	10
	3200002816	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-249	2	Prop Loc - Hard Copy	524474	410105		50	10
	3200002815	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-249	3	Prop Loc - Hard Copy	524474	410105		50	10
	3200002814	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-249	4	Prop Loc - Hard Copy	524472	411421		50	10
	3200002813	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-250	4	Prop Loc - Hard Copy	525484	411422		50	10
	3200002803	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-248	3	Prop Loc - Hard Copy	523460	411419		50	10
	3200002802	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-248	4	Prop Loc - Hard Copy	523460	411419		50	10
	3200002801	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-250	16	Prop Loc - Hard Copy	523460	411419		50	10
	3200002800	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-249	15	Prop Loc - Hard Copy	524472	411421		50	10
	3200002799	Domestic	Yes	Permit	3/17/1977		Ocean	Manchester Twp	99-249	16	Prop Loc - Hard Copy	523460	411419		50	10
	3200002771	Domestic	Yes	Permit	3/7/1977		Ocean	Manchester Twp	99-231	9	Prop Loc - Hard Copy	524470	412837		50	
	3200002669	Domestic	Yes	Permit	2/27/1977		Ocean	Manchester Twp	85-20	6	Prop Loc - Hard Copy	524474	410105		95	10
	3200002592	Domestic	Yes	Permit	1/3/1977		Ocean	Manchester Twp	99-100	2	Prop Loc - Hard Copy	524481	404642		70	10

	3200002591	Domestic	Yes	Permit	1/3/1977		Ocean	Manchester Twp	99-101	1	Prop Loc - Hard Copy	524481	404642		70	10
	3200005693	Domestic	Yes	Permit	6/1/1979		Ocean	Manchester Twp	99-126	3	Prop Loc - Hard Copy	524475	408790		85	10
	3200005616	Domestic	Yes	Permit	5/14/1979		Ocean	Manchester Twp	99-253	29	Prop Loc - Hard Copy	523463	408789		65	10
	3200005596	Domestic	Yes	Permit	5/7/1979		Ocean	Manchester Twp	99-179	4	Prop Loc - Hard Copy	525491	406059		65	10
	3200005594	Domestic	Yes	Permit	5/7/1979		Ocean	Manchester Twp	99-201	3	Prop Loc - Hard Copy	525491	406059		65	10
	3200005543	Irrigation	Yes	Permit	4/12/1979		Ocean	Manchester Twp			Prop Loc - Hard Copy	524479	406058		65	18
	3200005494	Domestic	Yes	Permit	4/3/1979		Ocean	Manchester Twp	99-156	9	Prop Loc - Hard Copy	523463	408789		70	10
	3200005493	Domestic	Yes	Permit	4/3/1979		Ocean	Manchester Twp	99-61	2	Prop Loc - Hard Copy	524477	407373		75	10
	3200005492	Domestic	Yes	Permit	4/3/1979		Ocean	Manchester Twp	99-178	8	Prop Loc - Hard Copy	524475	408790		75	10
	3200005491	Domestic	Yes	Permit	4/3/1979		Ocean	Manchester Twp	99-127	8	Prop Loc - Hard Copy	523463	408789		75	10
	3200005490	Domestic	Yes	Permit	4/3/1979		Ocean	Manchester Twp	99-128	9	Prop Loc - Hard Copy	525488	408791		75	10
	3200005370	Domestic	Yes	Permit	3/7/1979		Ocean	Manchester Twp	99-65	2	Prop Loc - Hard Copy	523467	406057		85	10
	3200005369	Domestic	Yes	Permit	3/7/1979		Ocean	Manchester Twp	99-103	3	Prop Loc - Hard Copy	525493	404643		85	10
	3200005299	Domestic	Yes	Permit	1/16/1979		Ocean	Manchester Twp	99-82	4	Prop Loc - Hard Copy	525488	408791		70	10
	3200005296	Domestic	Yes	Permit	1/16/1979		Ocean	Manchester Twp	99-127	7	Prop Loc - Hard Copy	525486	410107		80	10
	3200005169	Domestic	Yes	Permit	12/21/1978		Ocean	Manchester Twp	99-170	2	Prop Loc - Hard Copy	521361	408786		70	10
	3200005169	Domestic	Yes	Record	12/31/1978	ROUTE 539	Ocean	Manchester Twp	99-170	2	Prop Loc - Hard Copy	521361	408786		80	0
	3200005168	Domestic	Yes	Permit	12/21/1978		Ocean	Manchester Twp	99-169	9	Prop Loc - Hard Copy	521362	407370		70	10
	3200005168	Domestic	Yes	Record	12/31/1978	1560 ZEPPELIN AVE	Ocean	Manchester Twp	99.169	9	Prop Loc - Hard Copy	521362	407370		80	0
	3200005167	Domestic	Yes	Permit	12/21/1978		Ocean	Manchester Twp	99-169	7	Prop Loc - Hard Copy	521361	408786		70	10
	3200005167	Domestic	Yes	Record	12/31/1978	ROUTE 539	Ocean	Manchester Twp	99-169	7	Prop Loc - Hard Copy	521361	408786		80	0
	3200004741	Irrigation	Yes	Permit	8/3/1978		Ocean	Manchester Twp			Prop Loc - Hard Copy	524477	407373		70	21
	3200004677	Irrigation	Yes	Permit	7/25/1978		Ocean	Manchester Twp			Prop Loc - Hard Copy	524475	408790		90	20
	3200004677	Irrigation	Yes	Record	8/21/1978	51 FRANKLIN LANE	Ocean	Manchester Twp	75	72	Prop Loc - Hard Copy	524475	408790		85	0

	3200004577	Domestic	Yes	Permit	7/10/1978		Ocean	Manchester Twp	107	4	Prop Loc - Hard Copy	525493	404643		50	10
	3200004311	Domestic	Yes	Permit	4/25/1978		Ocean	Manchester Twp	99-134	9	Prop Loc - Hard Copy	522373	408787		65	10
	3200004311	Domestic	Yes	Record	7/31/1978	1761 BROOKLYN AVE	Ocean	Manchester Twp	99.134	9	Prop Loc - Hard Copy	522373	408787		66	0
	3200004310	Domestic	Yes	Permit	4/25/1978		Ocean	Manchester Twp	99-199	7	Prop Loc - Hard Copy	521359	410101		65	10
	3200004241	Domestic	Yes	Permit	3/23/1978		Ocean	Manchester Twp	99-252	1	Prop Loc - Hard Copy	524475	408790		65	10
	3200004241	Domestic	Yes	Record	1/31/1978	1250 PERSHING AVE	Ocean	Manchester Twp	99-252	1	Prop Loc - Hard Copy	524475	408790		64	0
	3200004101	Domestic	Yes	Permit	2/1/1978		Ocean	Manchester Twp	99-135	2	Prop Loc - Hard Copy	525491	406059		65	10
	3200005734	Domestic	Yes	Permit	6/27/1979		Ocean	Manchester Twp	99-62	5	Prop Loc - Hard Copy	524475	408790		85	10
	3200006757	Irrigation	Yes	Permit	11/5/1980		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523463	408789		85	25
	3200006757	Irrigation	Yes	Record	2/4/1981	10A BETSY ROSS LANE	Ocean	Manchester Twp	75	70	Prop Loc - Hard Copy	523463	408789		98	0
	3200006703	Irrigation	Yes	Permit	10/22/1980		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521366	404638		65	25
	3200006702	Irrigation	Yes	Permit	10/22/1980		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	520275	404636		65	25
	3200006682	Irrigation	Yes	Permit	10/15/1980		Ocean	Manchester Twp	102-20	42	Prop Loc - Hard Copy	523458	412836		65	10
	3200006681	Irrigation	Yes	Permit	10/15/1980	28 CHURCHILL ROAD	Ocean	Manchester Twp	102-20	41	Prop Loc - Hard Copy	523458	412836		65	10
	3200006652	Irrigation	Yes	Permit	10/1/1980		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		70	25
	3200006648	Irrigation	Yes	Permit	9/29/1980		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		65	25
	3200006627	Irrigation	Yes	Permit	9/24/1980		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		90	25
	3200006591	Irrigation	Yes	Permit	9/16/1980	22 HUDSON PKWY	Ocean	Manchester Twp	75	4	Prop Loc - Hard Copy	513029	408778		60	25
	3200006483	Domestic	Yes	Permit	7/28/1980		Ocean	Manchester Twp	99-105	6	Prop Loc - Hard Copy	523462	410104		80	10
	3200006337	Irrigation	Yes	Permit	6/17/1980		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521364	406054		80	25
	3200006337	Irrigation	Yes	Record	7/16/1980	40B FRANKLIN LANE	Ocean	Manchester Twp	75	95	Prop Loc - Hard Copy	521364	406054		94	0
	3200006333	Irrigation	Yes	Permit	6/17/1980		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521366	404638		75	25
	3200006161	Irrigation	Yes	Record	7/14/1980	57 TEXAS ROAD	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	518715	406759	3,953.39	30	0
	3200006074	Domestic	Yes	Permit	4/8/1980		Ocean	Manchester Twp	99-129	4	Prop Loc - Hard Copy	525486	410107		658	10

	3200006054	Domestic	Yes	Permit	3/19/1980		Ocean	Manchester Twp	99-128	8	Prop Loc - Hard Copy	524475	408790		70	10
	3200005833	Domestic	Yes	Permit	8/6/1979		Ocean	Manchester Twp	82-1	65	Prop Loc - Hard Copy	524469	414152		55	10
	3200008233	Irrigation	Yes	Permit	6/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		110	25
	3200008233	Irrigation	Yes	Record	8/4/1982	FALMOUTH AVE.	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	524947	405417	8,050.23	132	25
	3200008232	Irrigation	Yes	Permit	6/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		120	25
	3200008232	Irrigation	Yes	Record	7/30/1982	15 BRENTWOOD ST	Ocean	Manchester Twp	102.12	29	Prop Loc - Hard Copy	524475	408790		118	0
	3200008231	Irrigation	Yes	Permit	6/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		120	25
	3200008231	Irrigation	Yes	Record	7/30/1982	68A CHELSEA DRIVE	Ocean	Manchester Twp	102.17	9	Prop Loc - Hard Copy	524475	408790		118	0
	3200008229	Irrigation	Yes	Permit	6/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		100	25
	3200008229	Irrigation	Yes	Record	7/29/1982	8 HAMPSHIRE LANE	Ocean	Manchester Twp	10215	43	Prop Loc - Hard Copy	524475	408790		118	0
	3200008227	Irrigation	Yes	Permit	6/23/1982		Ocean	Manchester Twp	M/A	N/A	Prop Loc - Hard Copy	522378	404639		50	15
	3200008197	Irrigation	Yes	Permit	6/10/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		55	15
	3200008196	Irrigation	Yes	Permit	6/10/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525488	408791		55	15
	3200008190	Irrigation	Yes	Permit	6/7/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525493	404643		55	15
	3200008189	Irrigation	Yes	Permit	6/7/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523462	410104		55	15
	3200008186	Irrigation	Yes	Permit	6/2/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		55	15
	3200008183	Irrigation	Yes	Permit	6/2/1982		Ocean	Manchester Twp	75.111	36	Prop Loc - Hard Copy	522373	408787		55	15
	3200008179	Irrigation	Yes	Permit	6/2/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522375	407371		60	15
	3200008173	Irrigation	Yes	Permit	5/25/1982		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	524481	404642		70	15
	3200008172	Irrigation	Yes	Permit	5/25/1982		Ocean	Manchester Twp	75	70	Prop Loc - Hard Copy	524481	404642		70	15
	3200008171	Irrigation	Yes	Permit	5/25/1982	15B SALEM DRIVE	Ocean	Manchester Twp	75	70	Prop Loc - Hard Copy	524479	406058		75	15
	3200008169	Irrigation	Yes	Permit	5/25/1982	58 MILFORD AVE	Ocean	Manchester Twp	75-109	14	Prop Loc - Hard Copy	525491	406059		75	15
	3200008167	Irrigation	Yes	Permit	5/25/1982	72 MILFORD AVE	Ocean	Manchester Twp	75.112	39	Prop Loc - Hard Copy	522376	406055		70	15
	3200008166	Irrigation	Yes	Permit	5/25/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522371	410103		90	25

	3200008142	Irrigation	Yes	Permit	5/13/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523463	408789		55	15
	3200008141	Irrigation	Yes	Permit	5/13/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		55	15
	3200008140	Irrigation	Yes	Permit	5/13/1982	32B MAINE AVE	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524474	410105		55	15
	3200008139	Irrigation	Yes	Permit	5/13/1982	11 WYOMING AVE	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		55	15
	3200008134	Irrigation	Yes	Permit	5/11/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523465	407372		55	15
	3200008133	Irrigation	Yes	Permit	5/11/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		55	15
	3200008132	Irrigation	Yes	Permit	5/11/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		55	15
	3200008111	Irrigation	Yes	Permit	5/3/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		55	15
	3200008070	Irrigation	Yes	Permit	4/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522375	407371		55	15
	3200008069	Irrigation	Yes	Permit	4/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522378	404639		55	15
	3200008033	Irrigation	Yes	Permit	4/16/1982		Ocean	Manchester Twp	N/A	12-B	Prop Loc - Hard Copy	521362	407370		55	15
	3200008032	Irrigation	Yes	Permit	4/16/1982		Ocean	Manchester Twp	N/A	15-A	Prop Loc - Hard Copy	523465	407372		55	15
	3200008031	Irrigation	Yes	Permit	4/16/1982		Ocean	Manchester Twp	N/A	32-B	Prop Loc - Hard Copy	523467	406057		55	15
	3200008030	Irrigation	Yes	Permit	4/16/1982		Ocean	Manchester Twp	N/A	32-A	Prop Loc - Hard Copy	523465	407372		55	15
	3200008011	Irrigation	Yes	Permit	4/13/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	524477	407373		60	10
	3200007977	Irrigation	Yes	Permit	3/31/1982		Ocean	Manchester Twp	75-122	73	Prop Loc - Hard Copy	523467	406057		70	30
	3200007977	Irrigation	Yes	Record	5/2/1982	STONY BROOK RD	Ocean	Manchester Twp	75-122	73	Prop Loc - Hard Copy	523467	406057		115	0
	3200007952	Irrigation	Yes	Permit	3/22/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522378	404639		55	15
	3200007932	Irrigation	Yes	Permit	3/9/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		55	15
	3200007928	Irrigation	Yes	Permit	3/8/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519260	407367		60	25
	3200007928	Irrigation	Yes	Record	4/15/1982	46 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519260	407367		78	0
	3200007927	Irrigation	Yes	Permit	3/8/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519260	407367		80	25
	3200007927	Irrigation	Yes	Record	4/15/1982	36-A TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519260	407367		70	0
	3200007871	Irrigation	Yes	Permit	2/25/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		55	15

	3200007845	Irrigation	Yes	Permit	2/8/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		50	15
	3200007844	Irrigation	Yes	Permit	2/8/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		50	15
	3200007766	Irrigation	Yes	Permit	12/18/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521366	404638		70	25
	3200007715	Irrigation	Yes	Permit	11/30/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	519258	408784		140	25
	3200007715	Irrigation	Yes	Record	5/10/1982	9 BERRY HILL DR	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	524947	405417	8,050.23	151	25
	3200007676	Irrigation	Yes	Permit	11/10/1981		Ocean	Manchester Twp	75-117	109	Prop Loc - Hard Copy	513031	406046		50	15
	3200007613	Irrigation	Yes	Permit	10/19/1981	45 KEENE ST	Ocean	Manchester Twp	102-22	4	Prop Loc - Hard Copy	525491	406059		50	16
	3200007590	Domestic	Yes	Record	11/1/1981	1330 ROUTE 70 W	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520789	409460	2,281.54	72	0
	3200007586	Irrigation	Yes	Record	10/27/1981	12 CENTRAL AVE	Ocean	Manchester Twp	75	70	Prop Loc - Dig Image	524947	405417	8,050.23	82	25
	3200007560	Irrigation	Yes	Record	10/21/1981	11 BERRY HILL RD	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	524947	405417	8,050.23	138	0
	3200007515	Irrigation	Yes	Record	10/27/1981	25 BERRYHILL RD	Ocean	Manchester Twp	75	70	Prop Loc - Dig Image	524947	405417	8,050.23	70	0
	3200007512	Irrigation	Yes	Permit	9/8/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		50	15
	3200007510	Irrigation	Yes	Permit	9/8/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	520274	406053		50	15
	3200007496	Irrigation	Yes	Permit	8/24/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522376	406055		50	15
	3200007445	Irrigation	Yes	Permit	8/6/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522376	406055		55	15
	3200007425	Irrigation	Yes	Permit	8/3/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521366	404638		75	25
	3200007391	Irrigation	Yes	Permit	7/22/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521361	408786		55	15
	3200007312	Non-Public	Yes	Permit	6/19/1981		Ocean	Manchester Twp	11	2 & 3	Prop Loc - Hard Copy	519255	411414		120	10
	3200007293	Irrigation	Yes	Permit	6/8/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		70	25
	3200007234	Irrigation	Yes	Permit	5/26/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523463	408789		60	15
	3200007234	Irrigation	Yes	Record	7/15/1981	175D COLUMBINE AVE	Ocean	Manchester Twp	97	3	Prop Loc - Hard Copy	523463	408789		38	0
	3200007230	Irrigation	Yes	Permit	5/26/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		70	25
	3200007216	Irrigation	Yes	Permit	5/18/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		55	15
	3200007113	Irrigation	Yes	Permit	8/11/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522375	407371		55	15

	3200007113	Irrigation	Yes	Record	10/14/1981	975 CONSTITUTION BLVD	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522375	407371		85	0
	3200007089	Irrigation	Yes	Permit	3/31/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523465	407372		55	15
	3200007089	Irrigation	Yes	Record	10/16/1981	10 FLORIDA CT	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	521829	408112	3,929.7	52	0
	3200007080	Irrigation	Yes	Permit	3/27/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525482	412838		80	25
	3200006903	Irrigation	Yes	Permit	1/13/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		75	25
	3200006871	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521358	411417		45	15
	3200006871	Irrigation	Yes	Record	7/16/1981	46 MAINE AVE	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521358	411417		65	0
	3200006869	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524474	410105		45	15
	3200006869	Irrigation	Yes	Record	9/2/1981	2 HAWAII WAY	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	520789	409460	2,281.54	67	0
	3200006868	Irrigation	Yes	Record	8/16/1981	1 MICHIGAN AVENUE	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	520789	409460	2,281.54	65	0
	3200006867	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		45	15
	3200006867	Irrigation	Yes	Record	9/6/1981	MISSOURI DRIVE	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	520791	408111	3,225.32	50	0
	3200006865	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		45	15
	3200006865	Irrigation	Yes	Record	6/5/1981	4 ARKANSAS	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	519754	406760	4,044.34	65	0
	3200006864	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524474	410105		45	15
	3200006864	Irrigation	Yes	Record	8/12/1981	26 MAIN AVE	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	524943	408116	6,594.43	65	0
	3200006863	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522373	408787		45	15
	3200006863	Irrigation	Yes	Record	8/1/1981	13 ALASKA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522373	408787		65	0
	3200006861	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		45	15
	3200006860	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521361	408786		45	15
	3200006858	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525488	408791		45	15
	3200006855	Irrigation	Yes	Permit	1/5/1981		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		45	15
	3200006855	Irrigation	Yes	Record	6/21/1981	35 TEXAS BLVD	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		65	0
	3200006687	Domestic	Yes	Permit	7/30/1981		Ocean	Manchester Twp	109	4	Prop Loc - Hard Copy	522375	407371		70	30

	3200006687	Domestic	Yes	Record	10/30/1981	HWY 539	Ocean	Manchester Twp	109	4	Prop Loc - Hard Copy	522375	407371		81	0
	3200009258	Irrigation	Yes	Permit	6/20/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521908	406662		60	15
	3200009257	Irrigation	Yes	Permit	6/20/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521908	406662		60	15
	3200009238	Irrigation	Yes	Record	9/13/1983	10 ALABAMA LANE	Ocean	Manchester Twp			Prop Loc - Dig Image	521827	409461	3,200.79	55	0
	3200009223	Irrigation	Yes	Permit	6/20/1983		Ocean	Manchester Twp	68	25	Prop Loc - Hard Copy	522917	409395		50	10
	3200009222	Irrigation	Yes	Permit	6/20/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	513575	407969		60	10
	3200009221	Irrigation	Yes	Permit	6/20/1983		Ocean	Manchester Twp	111	L8	Prop Loc - Hard Copy	512562	407968		60	10
	3200009207	Irrigation	Yes	Permit	6/2/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	522922	405348		50	15
	3200009206	Irrigation	Yes	Permit	6/2/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	522922	405348		50	15
	3200009154	Irrigation	Yes	Permit	6/2/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200009154	Irrigation	Yes	Record	6/29/1983	11 SOUTH CAROLINA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520791	408111	3,225.32	79	0
	3200009133	Irrigation	Yes	Permit	5/20/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	521905	409394		100	25
	3200009105	Irrigation	Yes	Permit	4/30/1983		Ocean	Manchester Twp	75	15	Prop Loc - Hard Copy	525023	406666		70	10
	3200009098	Irrigation	Yes	Record	6/11/1983	9 TEXAS BLVD	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	50	20
	3200009097	Irrigation	Yes	Record	7/6/1983	19 NEW YORK DRIVE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	55	0
	3200009096	Irrigation	Yes	Record	7/12/1983	6B OHIO DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	68	0
	3200009080	Irrigation	Yes	Permit	4/30/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200009080	Irrigation	Yes	Record	5/25/1983	14B FLORIDA DRIVE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	78	0
	3200009079	Irrigation	Yes	Permit	4/30/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200009079	Irrigation	Yes	Record	5/25/1983	13A FLORIDA DRIVE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	78	0
	3200009061	Irrigation	Yes	Permit	4/30/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525022	407981		55	15
	3200009060	Irrigation	Yes	Permit	4/30/1983		Ocean	Manchester Twp	75.1	15	Prop Loc - Hard Copy	524011	406665		50	15
	3200009059	Irrigation	Yes	Permit	4/30/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	522916	410710		75	10
	3200009016	Irrigation	Yes	Permit	4/8/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25

	3200009016	Irrigation	Yes	Record	5/25/1983	13B FLORIDA DRIVE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	79	0
	3200008935	Irrigation	Yes	Permit	2/1/1983		Ocean	Manchester Twp	75.124	48	Prop Loc - Hard Copy	522921	406663		50	15
	3200008932	Irrigation	Yes	Record	4/5/1983	19B FLORIDA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	521829	408112	3,929.7	50	0
	3200008931	Irrigation	Yes	Record	7/7/1983	13 OHIO DR	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	68	0
	3200008925	Irrigation	Yes	Record	5/26/1983	14 OHIO DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	70	0
	3200008924	Irrigation	Yes	Record	5/3/1983	52 A MAIN AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518714	408108	2,606.08	70	20
	3200008922	Irrigation	Yes	Record	7/4/1983	4 NEW YORK	Ocean	Manchester Twp			Prop Loc - Dig Image	521829	408112	3,929.7	50	0
	3200008915	Irrigation	Yes	Record	5/2/1983	61 FALMOUTH AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	524947	405417	8,050.23	138	0
	3200008904	Irrigation	Yes	Record	4/12/1983	10A VIRGINIA AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	70	0
	3200008892	Irrigation	Yes	Permit	2/1/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525020	409398		55	15
	3200008891	Irrigation	Yes	Permit	2/1/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524006	410712		50	15
	3200008837	Irrigation	Yes	Record	4/8/1983	12A OHIO DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	65	20
	3200008827	Irrigation	Yes	Record	4/12/1983	5A CALIFORNIA ST	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	72	0
	3200008805	Irrigation	Yes	Record	4/6/1983	5-B CALIFORNIA AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	72	20
	3200008802	Irrigation	Yes	Permit	2/1/1983		Ocean	Manchester Twp	7512	38	Prop Loc - Hard Copy	524011	406665		55	15
	3200008800	Irrigation	Yes	Permit	2/1/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	522922	405348		55	15
	3200008799	Irrigation	Yes	Permit	2/1/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525022	407981		55	15
	3200008799	Irrigation	Yes	Record	4/20/1983	8A MONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	65	0
	3200008798	Irrigation	Yes	Record	6/2/1983	5 RHODE ISLAND DR.	Ocean	Manchester Twp			Prop Loc - Dig Image	520792	406761	4,386.4	58	0
	3200008797	Irrigation	Yes	Permit	2/1/1983		Ocean	Manchester Twp	7512	39	Prop Loc - Hard Copy	522921	406663		55	15
	3200008797	Irrigation	Yes	Record	4/21/1983	20A MEDFORD	Ocean	Manchester Twp	75.128	39	Prop Loc - Hard Copy	522921	406663		70	0
	3200008796	Irrigation	Yes	Record	4/9/1983	33 ROOSEVELT CITY DR	Ocean	Manchester Twp		CGL	Prop Loc - Dig Image	521829	408112	3,929.7	70	0
	3200008795	Irrigation	Yes	Record	3/29/1983	25 MICHIGAN AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	68	20
	3200008700	Irrigation	Yes	Permit	12/14/1982		Ocean	Manchester Twp			Prop Loc - Hard Copy	525490	407375		140	25

	3200008700	Irrigation	Yes	Record	2/2/1983	39 FALMOUTH AVE.	Ocean	Manchester Twp			Prop Loc - Dig Image	524947	405417	8,050.23	139	25
	3200008690	Irrigation	Yes	Permit	12/7/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524475	408790		50	15
	3200008687	Irrigation	Yes	Permit	12/2/1982	11 HUMMINGBIRD LANE	Ocean	Manchester Twp	120-25	8	Prop Loc - Hard Copy	521366	404638		115	16
	3200008661	Irrigation	Yes	Permit	11/17/1982	15 VIRGINIA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522376	406055		55	10
	3200008660	Irrigation	Yes	Permit	11/17/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522376	406055		55	10
	3200008653	Irrigation	Yes	Permit	11/15/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		50	15
	3200008651	Irrigation	Yes	Permit	11/15/1982		Ocean	Berkeley Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		50	15
	3200008630	Irrigation	Yes	Permit	11/5/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		150	25
	3200008621	Irrigation	Yes	Permit	11/4/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522375	407371		55	10
	3200008609	Irrigation	Yes	Permit	11/3/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		50	15
	3200008608	Irrigation	Yes	Permit	11/3/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523467	406057		50	15
	3200008587	Irrigation	Yes	Permit	10/25/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		55	15
	3200008586	Irrigation	Yes	Permit	10/25/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		50	15
	3200008585	Irrigation	Yes	Permit	10/25/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		55	15
	3200008573	Irrigation	Yes	Permit	10/20/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523462	410104		55	15
	3200008565	Irrigation	Yes	Permit	10/14/1982		Ocean	Manchester Twp	75.104	13	Prop Loc - Hard Copy	525490	407375		55	15
	3200008563	Irrigation	Yes	Permit	10/14/1982		Ocean	Manchester Twp	75.104	11	Prop Loc - Hard Copy	525486	410107		55	15
	3200008541	Irrigation	Yes	Permit	10/12/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		55	15
	3200008540	Irrigation	Yes	Permit	10/12/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		50	15
	3200008536	Irrigation	Yes	Permit	10/7/1982		Ocean	Manchester Twp	102.20	84	Prop Loc - Hard Copy	525490	407375		55	15
	3200008535	Irrigation	Yes	Permit	10/7/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525488	408791		55	15
	3200008519	Irrigation	Yes	Permit	9/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		85	25
	3200008515	Irrigation	Yes	Permit	9/27/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	520271	408785		75	25
	3200008511	Irrigation	Yes	Permit	9/27/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	520271	408785		75	25

	3200008500	Irrigation	Yes	Permit	9/24/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		95	25
	3200008500	Irrigation	Yes	Record	10/13/1982	66 FALMOUTH AVE	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	524947	405417	8,050.23	138	0
	3200008497	Irrigation	Yes	Permit	9/22/1982		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	525490	407375		70	10
	3200008496	Irrigation	Yes	Permit	9/22/1982		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	522376	406055		80	10
	3200008495	Irrigation	Yes	Permit	9/22/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	523467	406057		80	10
	3200008493	Irrigation	Yes	Permit	9/21/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523463	408789		55	15
	3200008486	Irrigation	Yes	Permit	9/17/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523460	411419		55	15
	3200008485	Irrigation	Yes	Permit	9/20/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522371	410103		55	15
	3200008484	Irrigation	Yes	Permit	9/20/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523463	408789		55	15
	3200008479	Irrigation	Yes	Permit	9/15/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	516145	407364		140	25
	3200008473	Irrigation	Yes	Permit	9/13/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523463	408789		55	15
	3200008472	Irrigation	Yes	Permit	9/13/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		55	15
	3200008466	Irrigation	Yes	Permit	9/10/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		55	15
	3200008465	Irrigation	Yes	Permit	9/10/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525488	408791		55	15
	3200008463	Domestic Replacement	Yes	Permit	9/10/1982		Ocean	Manchester Twp	99-136	2	Prop Loc - Hard Copy	525486	410107		70	10
	3200008461	Public Non-Community	Yes	Permit	9/8/1982		Ocean	Manchester Twp	85-1	4,12,22	Prop Loc - Hard Copy	525486	410107		120	65
	3200008456	Irrigation	Yes	Permit	9/2/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		55	15
	3200008455	Irrigation	Yes	Permit	9/2/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523467	406057		55	15
	3200008454	Irrigation	Yes	Permit	9/2/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522375	407371		55	15
	3200008453	Irrigation	Yes	Permit	9/2/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522375	407371		55	15
	3200008435	Irrigation	Yes	Permit	8/24/1982		Ocean	Manchester Twp	75-127	14	Prop Loc - Hard Copy	524479	406058		90	10
	3200008433	Irrigation	Yes	Permit	8/24/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		55	15
	3200008426	Irrigation	Yes	Permit	8/23/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522375	407371		55	15
	3200008424	Irrigation	Yes	Permit	8/23/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		55	15

	3200008418	Irrigation	Yes	Permit	8/19/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		120	25
	3200008409	Irrigation	Yes	Permit	8/18/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523465	407372		55	15
	3200008408	Irrigation	Yes	Permit	8/18/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525486	410107		55	15
	3200008407	Irrigation	Yes	Permit	8/18/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523467	406057		55	15
	3200008406	Irrigation	Yes	Permit	8/18/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522376	406055		55	15
	3200008405	Irrigation	Yes	Permit	8/18/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524479	406058		55	15
	3200008404	Irrigation	Yes	Permit	8/18/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524477	407373		55	15
	3200008402	Domestic Replacement	Yes	Permit	8/19/1982		Ocean	Manchester Twp	1	14	Prop Loc - Hard Copy	525490	407375		100	10
	3200008396	Irrigation	Yes	Permit	8/13/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523465	407372		55	15
	3200008373	Irrigation	Yes	Permit	8/10/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		140	25
	3200008373	Irrigation	Yes	Record	9/16/1982	17 BERRY HILL ROAD	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	524947	405417	8,050.23	157	25
	3200008340	Irrigation	Yes	Permit	8/5/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523465	407372		55	15
	3200008339	Irrigation	Yes	Permit	8/5/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		55	15
	3200008338	Domestic	Yes	Permit	8/5/1982		Ocean	Manchester Twp	99-1105	5	Prop Loc - Hard Copy	521358	411417		90	10
	3200008331	Irrigation	Yes	Permit	8/2/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	525491	406059		55	10
	3200008323	Irrigation	Yes	Permit	8/2/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		100	25
	3200008323	Irrigation	Yes	Record	8/18/1982	45 FALMOUTH AVE.	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	524947	405417	8,050.23	137	25
	3200008309	Irrigation	Yes	Permit	7/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523463	408789		55	15
	3200008308	Irrigation	Yes	Permit	7/28/1982		Ocean	Manchester Twp	75.105	3	Prop Loc - Hard Copy	524477	407373		55	15
	3200008307	Irrigation	Yes	Permit	7/28/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	522376	406055		55	15
	3200008301	Irrigation	Yes	Permit	7/26/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		100	25
	3200008300	Irrigation	Yes	Permit	7/26/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525490	407375		100	25
	3200008281	Irrigation	Yes	Permit	7/20/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	524481	404642		55	15
	3200008279	Irrigation	Yes	Permit	7/16/1982		Ocean	Manchester Twp	102	2	Prop Loc - Hard Copy	525491	406059		115	16

	3200008272	Irrigation	Yes	Permit	7/13/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	523468	404640		55	15
	3200008268	Irrigation	Yes	Permit	7/13/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		90	25
	3200008260	Irrigation	Yes	Permit	7/8/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	521366	404638		55	15
	3200008259	Irrigation	Yes	Permit	7/8/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525491	406059		55	15
	3200008258	Irrigation	Yes	Permit	7/8/1982		Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	525488	408791		120	25
	3200008258	Irrigation	Yes	Record	8/5/1982	57 FALMOUTH AVE	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Dig Image	524947	405417	8,050.23	138	25
	3200008246	Irrigation	Yes	Permit	7/2/1982		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519261	406052		70	25
	3200008246	Irrigation	Yes	Record	7/20/1982	19 ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	70	0
	3200010746	Irrigation	Yes	Permit	10/5/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200010746	Irrigation	Yes	Record	3/25/1985	9 B ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	70.5	25
	3200010745	Irrigation	Yes	Permit	10/5/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200010745	Irrigation	Yes	Record	3/25/1985	7 B ARKANSAS DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	78.5	25
	3200010694	Irrigation	Yes	Permit	9/15/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	524009	407980		50	15
	3200010694	Irrigation	Yes	Record	10/7/1984	10 B MANTANA DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	50	20
	3200010656	Irrigation	Yes	Record	9/30/1984	7-A ARKANSAS DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	65	0
	3200010617	Irrigation	Yes	Permit	8/25/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200010617	Irrigation	Yes	Record	9/11/1984	2 OHIO DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	68	25
	3200010616	Irrigation	Yes	Permit	8/25/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200010616	Irrigation	Yes	Record	9/12/1984	1 VERMONT WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	65	25
	3200010596	Irrigation	Yes	Permit	8/25/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	524006	410712		80	25
	3200010593	Irrigation	Yes	Record	10/16/1984	51 A MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	70	25
	3200010581	Irrigation	Yes	Permit	8/25/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200010581	Irrigation	Yes	Record	8/29/1984	17 A ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	69	25
	3200010549	Irrigation	Yes	Permit	8/5/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	524009	407980		50	15

	3200010504	Irrigation	Yes	Permit	8/5/1984		Ocean	Manchester Twp	7512	65	Prop Loc - Hard Copy	525025	405351		50	15
	3200010503	Irrigation	Yes	Permit	8/5/1984		Ocean	Manchester Twp	7512	97	Prop Loc - Hard Copy	524011	406665		50	15
	3200010502	Irrigation	Yes	Permit	8/5/1984		Ocean	Manchester Twp	7513	2	Prop Loc - Hard Copy	525025	405351		50	15
	3200010501	Irrigation	Yes	Permit	8/5/1984		Ocean	Manchester Twp	7513	16	Prop Loc - Hard Copy	525025	405351		50	15
	3200010499	Irrigation	Yes	Permit	8/5/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	525023	406666		50	15
	3200010499	Irrigation	Yes	Record	8/6/1984	CALIFORNIA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	70	20
	3200010498	Irrigation	Yes	Permit	8/5/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	525023	406666		50	15
	3200010391	Irrigation	Yes	Record	7/30/1984	21 ROOSEVELT CITY	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	50	0
	3200010388	Irrigation	Yes	Permit	7/20/1984		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		80	15
	3200010388	Irrigation	Yes	Record	8/21/1984	48 LOUISIANA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	79	0
	3200010387	Irrigation	Yes	Permit	7/20/1984		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521905	409394		80	15
	3200010387	Irrigation	Yes	Record	8/20/1984	4A OKLAHOMA WAY	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	93	0
	3200010386	Irrigation	Yes	Permit	7/20/1984		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521905	409394		80	15
	3200010386	Irrigation	Yes	Record	8/20/1984	4B OKLAHOMA WAY	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	93	0
	3200010369	Irrigation	Yes	Permit	7/20/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200010369	Irrigation	Yes	Record	7/31/1984	10 A ILLINOS DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520791	408111	3,225.32	99	25
	3200010326	Irrigation	Yes	Record	8/26/1984	39 A MAINE AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	65	0
	3200010301	Irrigation	Yes	Record	6/30/1984	31 B ARIZONA AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	50	20
	3200010273	Irrigation	Yes	Permit	6/10/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	525025	405351		50	15
	3200010272	Irrigation	Yes	Permit	6/10/1984		Ocean	Manchester Twp	75	3	Prop Loc - Hard Copy	525025	405351		50	15
	3200010271	Irrigation	Yes	Permit	6/10/1984		Ocean	Manchester Twp	102	11	Prop Loc - Hard Copy	525025	405351		50	15
	3200010270	Irrigation	Yes	Permit	6/10/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	525025	405351		50	15
	3200010262	Irrigation	Yes	Permit	6/10/1984		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		70	15
	3200010262	Irrigation	Yes	Record	7/6/1984	4 MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		86	0

	3200010261	Irrigation	Yes	Permit	6/10/1984		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		70	15
	3200010261	Irrigation	Yes	Record	8/12/1984	1B ARIZONA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	80	0
	3200010260	Irrigation	Yes	Permit	6/10/1984		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		65	15
	3200010260	Irrigation	Yes	Record	7/3/1984	26 TEXAS BLKVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	80	0
	3200010213	Irrigation	Yes	Record	6/3/1984	10 S CAROLINA WAY	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	80	25
	3200010212	Irrigation	Yes	Record	6/17/1984	13 INDIANA WAY	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	55	20
	3200010203	Irrigation	Yes	Permit	4/26/1984		Ocean	Manchester Twp	7512	75	Prop Loc - Hard Copy	524013	405349		50	15
	3200010202	Irrigation	Yes	Permit	4/26/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	524011	406665		50	15
	3200010199	Irrigation	Yes	Permit	4/26/1984		Ocean	Manchester Twp	1021	22	Prop Loc - Hard Copy	524011	406665		15	15
	3200010198	Irrigation	Yes	Permit	4/26/1984		Ocean	Manchester Twp	7512	1	Prop Loc - Hard Copy	524007	409396		50	15
	3200010194	Irrigation	Yes	Permit	4/26/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	522919	407978		80	25
	3200010194	Irrigation	Yes	Record	6/20/1984	2 GEORGIA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	70	30
	3200010193	Irrigation	Yes	Permit	4/26/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	520893	409393		80	25
	3200010193	Irrigation	Yes	Record	6/20/1984	12 SOUTH CAROLINA WAY	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	88	25
	3200010192	Irrigation	Yes	Permit	4/26/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200010192	Irrigation	Yes	Record	6/19/1984	9 NEVADA DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	75	25
	3200010138	Irrigation	Yes	Permit	4/26/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	525023	406666		50	15
	3200010083	Irrigation	Yes	Permit	4/6/1984		Ocean	Manchester Twp	75	52	Prop Loc - Hard Copy	525022	407981		50	15
	3200010082	Irrigation	Yes	Permit	4/6/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	525020	409398		50	15
	3200010080	Irrigation	Yes	Permit	4/6/1984		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		60	15
	3200010080	Irrigation	Yes	Record	5/21/1984	14 NEVADA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	78	0
	3200010079	Irrigation	Yes	Permit	4/6/1984		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		60	15
	3200010079	Irrigation	Yes	Record	8/21/1984	55 MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	78	0
	3200010031	Irrigation	Yes	Record	4/30/1984	2 BE	Ocean	Manchester Twp			Prop Loc - Dig Image	520789	409460	2,281.54	70	0

	3200010030	Irrigation	Yes	Record	5/14/1984	NEBRASKA DR	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	70	20
	3200010029	Irrigation	Yes	Permit	3/21/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	525025	405351		50	15
	3200010029	Irrigation	Yes	Record	5/11/1984	64 - A MAIN AVE.	Ocean	Manchester Twp		CGL	Prop Loc - Hard Copy	525025	405351		65	0
	3200010028	Irrigation	Yes	Permit	3/21/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	525022	407981		50	15
	3200010000	Irrigation	Yes	Permit	3/3/1984		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519804	407975		100	25
	3200009999	Irrigation	Yes	Permit	3/3/1984		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519804	407975		100	25
	3200009999	Irrigation	Yes	Record	4/17/1984	55 TEXAS BOULEVARD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	70	25
	3200009997	Irrigation	Yes	Permit	3/3/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	521908	406662		80	25
	3200009997	Irrigation	Yes	Record	6/8/1984	80 NORWALK AVE	Ocean	Manchester Twp	102.10	45	Prop Loc - Hard Copy	521908	406662		83	0
	3200009976	Irrigation	Yes	Permit	2/15/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	524009	407980		50	15
	3200009976	Irrigation	Yes	Record	6/2/1984	29-B HOMESTEAD DR	Ocean	Manchester Twp	75	70	Prop Loc - Hard Copy	524009	407980		55	0
	3200009974	Irrigation	Yes	Permit	2/15/1984		Ocean	Manchester Twp			Prop Loc - Hard Copy	524013	405349		50	15
	3200009974	Irrigation	Yes	Record	4/16/1984	385 FAIRWAY AVE	Ocean	Manchester Twp			Prop Loc - Hard Copy	524013	405349		40	0
	3200009973	Irrigation	Yes	Permit	2/15/1984		Ocean	Manchester Twp	7511	105	Prop Loc - Hard Copy	522921	406663		50	15
	3200009973	Irrigation	Yes	Record	6/3/1984	27 ARDMORE ST	Ocean	Manchester Twp	75.117	105	Prop Loc - Hard Copy	522921	406663		50	0
	3200009958	Irrigation	Yes	Record	6/19/1984	89 FAMOUTH AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	524947	405417	8,050.23	147.5	0
	3200009905	Irrigation	Yes	Record	4/11/1984	10 CENTRAL AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	524947	405417	8,050.23	138	0
	3200009865	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200009865	Irrigation	Yes	Record	5/9/1984	2 ARKAMANS DRIVE	Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		73	0
	3200009854	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525023	406666		55	15
	3200009854	Irrigation	Yes	Record	4/16/1984	OTTIO DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	60	20
	3200009853	Irrigation	Yes	Record	4/2/1984	35 MARY LAND DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	520792	406761	4,386.4	50	0
	3200009851	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524011	406665		55	15
	3200009850	Irrigation	Yes	Record	4/23/1984	6 B MARYLAND DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	520792	406761	4,386.4	50	0

	3200009849	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524013	405349		55	15
	3200009849	Irrigation	Yes	Record	3/28/1984	UTAH DRIVE	Ocean	Manchester Twp			Prop Loc - Hard Copy	524013	405349		70	0
	3200009848	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524009	407980		55	15
	3200009847	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525025	405351		55	15
	3200009846	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525022	407981		55	15
	3200009845	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524013	405349		55	15
	3200009844	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	522921	406663		55	15
	3200009844	Irrigation	Yes	Record	4/9/1984	44 MICHIGAN AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522921	406663		70	0
	3200009843	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524011	406665		55	15
	3200009842	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524011	406665		55	15
	3200009841	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525020	409398		55	15
	3200009841	Irrigation	Yes	Record	4/4/1984	4B TENNESSEE DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	65	20
	3200009807	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521908	406662		60	15
	3200009806	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		60	15
	320009790A	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	516614	405442		150	25
	320009790A	Irrigation	Yes	Record	2/23/1984	10 BERRY HILL ROAD	Ocean	Manchester Twp	102.28	24	Digital Image	525225	404659	8,767.07	116	25
	3200009780	Irrigation	Yes	Record	2/22/1984	51 FALMOUTH AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	524947	405417	8,050.23	138	0
	3200009778	Irrigation	Yes	Permit	12/5/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525022	407981		50	15
	3200009764	Irrigation	Yes	Permit	11/2/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	514667	405339		60	15
	3200009754	Irrigation	Yes	Permit	11/2/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521907	407977		60	15
	3200009747	Irrigation	Yes	Permit	11/2/1983		Ocean	Manchester Twp	75.1	53	Prop Loc - Hard Copy	524013	405349		55	15
	3200009712	Irrigation	Yes	Permit	11/2/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	515678	406655		60	15
	3200009686	Irrigation	Yes	Record	3/1/1984	7 KANSAS ST	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	42	20
	3200009683	Irrigation	Yes	Permit	10/18/1983		Ocean	Manchester Twp	75	39	Prop Loc - Hard Copy	522919	407978		55	15

	3200009682	Irrigation	Yes	Permit	10/18/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	514666	406654		60	15
	3200009655	Irrigation	Yes	Permit	10/18/1983		Ocean	Manchester Twp	102	11	Prop Loc - Hard Copy	525023	406666		55	15
	3200009653	Irrigation	Yes	Permit	10/18/1983		Ocean	Manchester Twp	75.1	95	Prop Loc - Hard Copy	524009	407980		50	15
	3200009653	Irrigation	Yes	Record	11/4/1983	13B GOLDEN CT	Ocean	Manchester Twp	75.123	95	Prop Loc - Hard Copy	524009	407980		50	0
	3200009628	Irrigation	Yes	Permit	9/30/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	514665	407970		60	15
	3200009627	Irrigation	Yes	Permit	9/30/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	514665	407970		60	15
	3200009614	Irrigation	Yes	Permit	9/30/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525023	406666		55	15
	3200009611	Irrigation	Yes	Record	9/2/1984	43B MAINE AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	70	25
	3200009610	Irrigation	Yes	Record	11/4/1983	6 MINNESOTA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	70	0
	3200009592	Irrigation	Yes	Record	2/29/1984	1 A KANSAS ST	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	65	20
	3200009590	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	102	60	Prop Loc - Hard Copy	525022	407981		55	15
	3200009589	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	102	7	Prop Loc - Hard Copy	525025	405351		55	15
	3200009589	Irrigation	Yes	Record	2/23/1984	9 KEENE ST	Ocean	Manchester Twp	102	7	Prop Loc - Hard Copy	525025	405351		80	0
	3200009586	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	75	72	Prop Loc - Hard Copy	524011	406665		55	15
	3200009584	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	102	82	Prop Loc - Hard Copy	521905	409394		55	15
	3200009576	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525020	409398		55	15
	3200009567	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	516691	406656		70	15
	3200009550	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	514667	405339		70	15
	3200009549	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	8	111	Prop Loc - Hard Copy	513576	406653		70	15
	3200009548	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	514665	407970		70	15
	3200009547	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	98	14	Prop Loc - Hard Copy	525022	407981		120	25
	3200009543	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524011	406665		55	15
	3200009538	Industrial	Yes	Record	9/23/1983	59 FALMOUTH AVE.	Ocean	Manchester Twp	102.	39	Prop Loc - Dig Image	524947	405417	8,050.23	80	25
	3200009534	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	522919	407978		55	15

	3200009533	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	522921	406663		55	15
	3200009532	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	102	38	Prop Loc - Hard Copy	524013	405349		55	15
	3200009531	Irrigation	Yes	Permit	9/12/1983		Ocean	Manchester Twp	75-1	31	Prop Loc - Hard Copy	524007	409396		55	15
	3200009519	Irrigation	Yes	Permit	8/31/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200009519	Irrigation	Yes	Record	10/17/1983	11 ILLINIOS DRIVE	Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		94	0
	3200009503	Irrigation	Yes	Permit	8/31/1983		Ocean	Manchester Twp	6D	4-41	Prop Loc - Hard Copy	521910	405347		70	15
	3200009480	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp	7511	117	Prop Loc - Hard Copy	524011	406665		55	15
	3200009479	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp	7512	84	Prop Loc - Hard Copy	525022	407981		55	15
	3200009479	Irrigation	Yes	Record	9/12/1983	8 GOLDEN CT	Ocean	Manchester Twp	75.123	84	Prop Loc - Hard Copy	525022	407981		50	0
	3200009478	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524009	407980		55	15
	3200009478	Irrigation	Yes	Record	9/27/1983	83A HUDSON PARKWAY	Ocean	Manchester Twp	75	85	Prop Loc - Hard Copy	524009	407980		70	0
	3200009474	Irrigation	Yes	Record	9/14/1983	2 RHODE ISLANE DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	520792	406761	4,386.4	50	0
	3200009439	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	524013	405349		100	25
	3200009439	Irrigation	Yes	Record	9/26/1983	42 KEENE ST	Ocean	Manchester Twp			Prop Loc - Hard Copy	524013	405349		145	0
	3200009422	Irrigation	Yes	Record	10/20/1983	15 GEROGIA WAY DR	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	60	20
	3200009418	Irrigation	Yes	Record	9/22/1983	55 MARYLAND DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	520792	406761	4,386.4	70	0
	3200009409	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp	30	48	Prop Loc - Hard Copy	525020	409398		70	15
	3200009408	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200009408	Irrigation	Yes	Record	9/15/1983	13 B GEORGIA WAY	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	77	0
	3200009407	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200009407	Irrigation	Yes	Record	9/8/1983	18 ALASKA AVENUE	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	71	0
	3200009406	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200009406	Irrigation	Yes	Record	9/9/1983	17B ALASKA AVENUE	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	72	0
	3200009405	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25

	3200009405	Irrigation	Yes	Record	9/13/1983	16A SOUTH CROLINA WAY	Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		89	0
	3200009404	Irrigation	Yes	Permit	8/8/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200009404	Irrigation	Yes	Record	9/14/1983	5 SOUTH CAROLINA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520896	406661		95	0
	3200009402	Domestic Replacement	Yes	Record	8/8/1983	60 CHERRY STREET	Ocean	Manchester Twp	107	2	Prop Loc - Dig Image	524947	405417	8,050.23	80	10
	3200009391	Irrigation	Yes	Record	10/16/1983	25 GEORGIA WAY	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	60	20
	3200009388	Irrigation	Yes	Record	8/5/1983	1 WISCONSIN AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519751	409459	1,523.79	68	20
	3200009387	Irrigation	Yes	Record	8/17/1983	17 MARYLAND DR	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	50	20
	3200009369	Irrigation	Yes	Record	9/24/1983	10 A KANASAS DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	521827	409461	3,200.79	50	0
	3200009354	Irrigation	Yes	Record	9/20/1983	31A MAINE STREET	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	50	20
	3200009323	Irrigation	Yes	Permit	7/10/1983		Ocean	Manchester Twp			Prop Loc - Hard Copy	525020	409398		55	15
	3300014041	Irrigation	Yes	Record	6/7/1984	8 KANSAS STREET	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	78	0
	3200011843	Irrigation	Yes	Permit	11/2/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200011843	Irrigation	Yes	Record	3/25/1986	4 A UTAH DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	76	0
	3200011804	Domestic Replacement	Yes	Permit	10/31/1985	467 MANCHESTER BLVD.	Ocean	Manchester Twp	83	3	Prop Loc - Hard Copy	525018	410713		85	10
	3200011804	Domestic Replacement	Yes	Record	11/4/1985	467 MANCHESTER BLVD.	Ocean	Manchester Twp	83	3	Prop Loc - Hard Copy	525018	410713		82	10
	3200011787	Irrigation	Yes	Record	11/13/1985	7 CENTRAL AVE	Ocean	Manchester Twp	102	41	Prop Loc - Dig Image	524941	409465	6,187.69	72	0
	3200011763	Domestic	Yes	Permit	10/7/1985	60 CHERRY STREET	Ocean	Manchester Twp	107	2.01	Prop Loc - Hard Copy	524009	407980		100	10
	3200011763	Domestic	Yes	Record	5/22/1987	60 CHERRY STREET	Ocean	Manchester Twp	107	2.01	Prop Loc - Hard Copy	524009	407980		100	10
	3200011691	Irrigation	Yes	Permit	9/20/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	525025	405351		70	25
	3200011241	Irrigation	Yes	Record	6/13/1985	5 ARIZONA AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	77.5	25
	3200011234	Irrigation	Yes	Record	6/12/1985	9A IDOHO DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	50	0
	3200011722	Irrigation	Yes	Record	10/25/1985	3-A RHODE ISLAND DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	50	0
	3200011720	Agric/Hort/Aqua Irrigation	Yes	Permit	10/22/1985		Ocean	Manchester Twp	54	99	Prop Loc - Hard Copy	524013	405349		100	15
	3200011720	Agric/Hort/Aqua Irrigation	Yes	Record			Ocean	Manchester Twp	54	99	Prop Loc - Hard Copy	524013	405349			

	3200011166	Irrigation	Yes	Record	6/7/1985	118 ARIZONA LANE	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	50	0
	3200011608	Irrigation	Yes	Permit	8/23/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200011608	Irrigation	Yes	Record	9/5/1985	7 UTAH DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518714	408108	2,606.08	74	25
	3200011118	Irrigation	Yes	Permit	5/5/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200011118	Irrigation	Yes	Record	5/20/1985	11 ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	69.5	25
	3200011097	Irrigation	Yes	Record	5/19/1985	13 IDAHO DR	Ocean	Manchester Twp			Prop Loc - Dig Image	520789	409460	2,281.54	70	20
	3200011076	Irrigation	Yes	Permit	3/15/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200011076	Irrigation	Yes	Record	5/20/1985	8A ARIZONA DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	69.5	25
	3200011540	Irrigation	Yes	Record	8/23/1985	14 CENTRAL AVE.	Ocean	Manchester Twp			Prop Loc - Dig Image	524947	405417	8,050.23	118	25
	3200010972	Irrigation	Yes	Permit	3/15/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200010972	Irrigation	Yes	Record	3/25/1985	15 A ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	67.5	25
	3200010958	Irrigation	Yes	Record	3/21/1985	8B WEST VIRGINIA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	68	25
	3200010861	Irrigation	Yes	Permit	1/15/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	521908	406662		80	25
	3200010861	Irrigation	Yes	Record	3/21/1985	10A WEST VIRGINIA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	69	0
	3200010860	Irrigation	Yes	Permit	1/15/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	521908	406662		80	25
	3200010860	Irrigation	Yes	Record	3/21/1985	10B WEST VIRGINIA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	69	0
	3200011413	Irrigation	Yes	Record	8/3/1985	19A MICHIGAN AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	50	0
	3200011402	Irrigation	Yes	Permit	7/8/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	523155	406056		85	25
	3200011399	Irrigation	Yes	Record	8/4/1985	7-A S. CAROLINA WAY	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	52	0
	3200011366	Irrigation	Yes	Permit	7/18/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200011366	Irrigation	Yes	Record	8/13/1985	28 B ARIZONA	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	72	25
	3200011357	Irrigation	Yes	Record	7/3/1985	15 NORTH CAROLINA AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	520792	406761	4,386.4	50	0
	3200011355	Irrigation	Yes	Record	7/13/1985	3A OHIO DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	50	15
	3200011337	Irrigation	Yes	Permit	7/18/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25

	3200011337	Irrigation	Yes	Record	7/17/1985	3A DELAWARE WAY	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521827	409461	3,200.79	87.5	25
	3200011336	Irrigation	Yes	Permit	7/18/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200011336	Irrigation	Yes	Record	6/28/1985	13 B WEST CIRGINIA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	85	0
	3200011335	Irrigation	Yes	Permit	7/18/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	521907	407977		80	25
	3200011335	Irrigation	Yes	Record	7/16/1985	9 NEW YORK DR	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521907	407977		88	25
	3200011334	Irrigation	Yes	Record	6/28/1985	WEST VIGINIA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	76	25
	3200011333	Irrigation	Yes	Permit	7/18/1985		Ocean	Manchester Twp			Prop Loc - Hard Copy	525025	405351		140	18
	3200011333	Irrigation	Yes	Record	8/13/1985	31 FALMOUTH AVE	Ocean	Manchester Twp			Prop Loc - Hard Copy	525025	405351		129	0
	3200011301	Irrigation	Yes	Record	6/28/1985	6 A WEST VIRGINIA DR	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	86	25
	3200011300	Irrigation	Yes	Record	6/28/1985	6B WEST VIRGINIA DR	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	74.5	25
	3200012492	Irrigation	Yes	Permit	6/26/1986		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		80	15
	3200012492	Irrigation	Yes	Record	8/5/1986	44 ARIZONA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	78	0
	3200012491	Irrigation	Yes	Permit	6/26/1986		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		80	15
	3200012491	Irrigation	Yes	Record	8/5/1986	5B MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		87	0
	3200012490	Irrigation	Yes	Permit	6/26/1986		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		80	15
	3200012490	Irrigation	Yes	Record	8/5/1986	39 A ROOSEVELT CITY ROAD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		83	0
	3200012489	Irrigation	Yes	Permit	6/26/1986		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		80	15
	3200012489	Irrigation	Yes	Record	8/6/1986	15 MARY POND AVENU	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		89	0
	3200012438	Irrigation	Yes	Permit	6/24/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200012438	Irrigation	Yes	Record	7/25/1986	6 ARIZONA ARNUE	Ocean	Manchester Twp			Prop Loc - Dig Image	519754	406760	4,044.34	78	0
	3200012437	Irrigation	Yes	Permit	6/24/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	521907	407977		90	25
	3200012437	Irrigation	Yes	Record	8/20/1986	5A OKLAHOMA WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521907	407977		88	25
	3200012436	Irrigation	Yes	Permit	6/24/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200012436	Irrigation	Yes	Record	7/28/1986	10 INDIANA WAY	Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		87.4	0

	3200012378	Irrigation	Yes	Record	7/10/1986	2A OAKLAHOMA WAY	Ocean	Manchester Twp			Prop Loc - Dig Image	521829	408112	3,929.7	94	25
	3200012377	Irrigation	Yes	Permit	6/11/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200012377	Irrigation	Yes	Record	7/11/1986	13 WISCONSIN LANE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519751	409459	1,523.79	78	25
	3200012341	Irrigation	Yes	Permit	5/21/1986		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520894	407976		80	15
	3200012341	Irrigation	Yes	Record	6/18/1986	9 B ROOSEVELT CIRTY ROAD	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	520789	409460	2,281.54	79	0
	3200012257	Irrigation	Yes	Permit	4/16/1986		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		80	15
	3200012257	Irrigation	Yes	Record	6/6/1986	19 MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	86	0
	3200012018	Non-Public	Yes	Permit	1/10/1986		Ocean	Manchester Twp	111	1	Prop Loc - Hard Copy	522916	410710		90	12
	3200012018	Non-Public	Yes	Record	9/25/1986	1220HWY 70 W	Ocean	Manchester Twp	111	1	Prop Loc - Dig Image	521827	409461	3,200.79	127	25
	3200013716	Domestic Replacement	Yes	Record	10/10/1987	50 CHERRY STREET	Ocean	Manchester Twp	107	8	Prop Loc - Dig Image	522871	405415	6,629.94	100	25
	3200013679	Irrigation	Yes	Record	9/30/1987	3 W VIRGINIA DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	50	0
	3200013675	Irrigation	Yes	Permit	6/17/1987		Ocean	Manchester Twp			Prop Loc - Hard Copy	523467	406057		75	25
	3200013672	Irrigation	Yes	Permit	6/16/1987		Ocean	Manchester Twp			Prop Loc - Hard Copy	521362	407370		80	25
	3200013672	Irrigation	Yes	Record	8/10/1987	49 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	78.5	0
	3200013615	Non-Public	Yes	Permit	6/2/1987		Ocean	Manchester Twp	86	2	Prop Loc - Hard Copy	525488	408791		80	16
	3200013615	Non-Public	Yes	Record	5/29/1987	STATION RD & RT 530	Ocean	Manchester Twp	86	2	Prop Loc - Hard Copy	525488	408791		117	32
	3200013612	Irrigation	Yes	Permit	5/22/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200013612	Irrigation	Yes	Record	7/29/1987	9 LOUISIANA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	79	0
	3200013516	Irrigation	Yes	Permit	5/5/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200013516	Irrigation	Yes	Record	6/15/1987	11 ONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	516638	406757	4,543.5	79	0
	3200013515	Irrigation	Yes	Permit	5/5/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200013515	Irrigation	Yes	Record	6/18/1987	17 TEAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		88	0
	3200013514	Irrigation	Yes	Permit	5/5/1987		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		80	15
	3200013514	Irrigation	Yes	Record	6/15/1987	15 B ROOSEVELT CIRTY ROAD	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		78	0

	3200013513	Irrigation	Yes	Permit	5/5/1987		Ocean	Manchester Twp			Prop Loc - Hard Copy	522378	404639		80	25
	3200013512	Irrigation	Yes	Permit	5/5/1987		Ocean	Manchester Twp			Prop Loc - Hard Copy	521366	404638		80	25
	3200013507	Irrigation	Yes	Permit	5/1/1987		Ocean	Manchester Twp			Prop Loc - Hard Copy	520274	406053		80	25
	3200013507	Irrigation	Yes	Record	7/10/1987	28 A ARIZONA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	82	25
	3200013468	Domestic	Yes	Permit	4/22/1987		Ocean	Manchester Twp	113	5	Prop Loc - Hard Copy	521908	406662		80	15
	3200013468	Domestic	Yes	Record	4/6/1988	60 ROOSEVELT CITY RD	Ocean	Manchester Twp	113	5	Prop Loc - Hard Copy	521908	406662		86	0
	3200013428	Domestic	Yes	Record	7/10/1987	39 B MAINE AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518714	408108	2,606.08	71.5	25
	3200013400	Irrigation	Yes	Record	6/14/1987	4 MICHIGAN AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	520789	409460	2,281.54	77	20
	3200013387	Irrigation	Yes	Record	6/13/1987	7B NEBRASKA DR	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	80	20
	3200013181	Irrigation	Yes	Permit	1/16/1987		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200013181	Irrigation	Yes	Record	6/8/1987	11 MICHIGAN AVENUE	Ocean	Manchester Twp			Prop Loc - Dig Image	519751	409459	1,523.79	75	0
	3200013069	Irrigation	Yes	Permit	11/26/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	521908	406662		80	25
	3200013069	Irrigation	Yes	Record	6/8/1987	4A 10 WA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	77	0
	3200013064	Irrigation	Yes	Record	6/5/1987	4B IOWA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	77	25
	3200012937	Domestic Replacement	Yes	Permit	10/27/1986	1881 NEW BRUNSWICK AVENUE	Ocean	Manchester Twp	99-100	10	Prop Loc - Hard Copy	525025	405351		100	10
	3200012921	Irrigation	Yes	Record	12/3/1986	10 VERMONT WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	70	20
	3200012904	Irrigation	Yes	Permit	10/15/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		80	25
	3200012904	Irrigation	Yes	Record	11/19/1986	17 PENNSYLVANIA DR	Ocean	Manchester Twp			Prop Loc - Dig Image	521827	409461	3,200.79	78	25
	3200012891	Domestic	Yes	Permit	10/8/1986		Ocean	Manchester Twp	113	12	Prop Loc - Hard Copy	521908	406662		100	10
	3200012891	Domestic	Yes	Record	12/8/1986	90 ROOSEVELT CITY DR	Ocean	Manchester Twp	113	12	Prop Loc - Hard Copy	521908	406662		90	10
	3200012890	Irrigation	Yes	Permit	10/8/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	521908	406662		80	25
	3200012890	Irrigation	Yes	Record	12/5/1986	16 CALIFORNIA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	88	0
	3200012882	Irrigation	Yes	Record	11/10/1986	15 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	516638	406757	4,543.5	88	0
	3200012864	Irrigation	Yes	Permit	9/26/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		85	25

	3200012864	Irrigation	Yes	Record	10/23/1986	9 MICHIGAN AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519751	409459	1,523.79	78	25
	3200012863	Irrigation	Yes	Permit	9/26/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	522921	406663		150	25
	3200012857	Irrigation	Yes	Permit	9/25/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	520894	407976		85	25
	3200012857	Irrigation	Yes	Record	10/27/1986	3A TENNESSEE DRIVE	Ocean	Manchester Twp			Prop Loc - Dig Image	518715	406759	3,953.39	68	0
	3200012774	Irrigation	Yes	Record	10/7/1986	1 UTAH DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518714	408108	2,606.08	60	20
	3200012761	Irrigation	Yes	Permit	8/27/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		90	25
	3200012761	Irrigation	Yes	Record	9/25/1986	5B NEW YORK DR	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	88	25
	3200012729	Domestic	Yes	Permit	8/18/1986		Ocean	Manchester Twp	99-126	6	Prop Loc - Hard Copy	522916	410710		100	25
	3200012729	Domestic	Yes	Record	11/18/1987	PENNSYLVANIA AVE	Ocean	Manchester Twp	99-126	6	Prop Loc - Dig Image	521827	409461	3,200.79	120	25
	3200012722	Irrigation	Yes	Permit	8/15/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	520896	406661		80	25
	3200012722	Irrigation	Yes	Record	9/6/1986	9 GEORGIA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	78	25
	3200012684	Irrigation	Yes	Permit	8/5/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	521907	407977		80	25
	3200012684	Irrigation	Yes	Record	8/29/1986	8 WISCONSINE LANE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	79	25
	3200012657	Irrigation	Yes	Permit	7/31/1986		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520894	407976		80	15
	3200012657	Irrigation	Yes	Record	9/25/1986	15A ROOSEVELT CITY ROAD	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520894	407976		78	0
	3200012654	Irrigation	Yes	Permit	7/31/1986		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		80	15
	3200012654	Irrigation	Yes	Record	9/25/1986	15A SO. CAROLINA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		88	0
	3200012653	Irrigation	Yes	Permit	7/31/1986		Ocean	Manchester Twp	75	95	Prop Loc - Hard Copy	520894	407976		80	15
	3200012652	Irrigation	Yes	Permit	7/31/1986		Ocean	Manchester Twp	75	95	Prop Loc - Hard Copy	520894	407976		80	15
	3200012572	Irrigation	Yes	Permit	7/16/1986		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		80	15
	3200012572	Irrigation	Yes	Record	9/8/1986	17 SO. CAROLINA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520894	407976		88	0
	3200012562	Irrigation	Yes	Permit	7/15/1986		Ocean	Manchester Twp			Prop Loc - Hard Copy	525025	405351		100	25
	3300020710	Irrigation	Yes	Record	10/14/1986	16A TEXAS BLVD.	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	50	20
	3300020709	Irrigation	Yes	Record	10/6/1986	2 ROOSEVELT CITY RD.	Ocean	Manchester Twp	LAKES	CEDAR GLEN	Prop Loc - Dig Image	520789	409460	2,281.54	50	20

	3300020708	Irrigation	Yes	Record	9/23/1986	4 ROOSEVELT CITY RD.	Ocean	Manchester Twp	LAKES	CEDAR GLEN	Prop Loc - Dig Image	520789	409460	2,281.54	55	20
	3300020707	Irrigation	Yes	Record	9/15/1986	19 ROOSEVELT CITY RD.	Ocean	Manchester Twp	LAKES	CEDAR GLEN	Prop Loc - Dig Image	520791	408111	3,225.32	50	20
	3200014105	Irrigation	Yes	Record	11/16/1987	4 ARIZONA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	77.5	25
	3200014103	Irrigation	Yes	Permit	10/7/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	25
	3200014103	Irrigation	Yes	Record	11/16/1987	22A MARYLAND AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	78	0
	3200014102	Irrigation	Yes	Permit	10/7/1987		Ocean	Manchester Twp	11	8	Prop Loc - Hard Copy	520269	410100		85	25
	3200014102	Irrigation	Yes	Record	12/16/1987	2A KANSAS DR	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	78.5	25
	3200014068	Domestic	Yes	Permit	10/7/1987		Ocean	Manchester Twp	99.01	7	Prop Loc - Hard Copy	525493	404643		80	16
	3200014041	Irrigation	Yes	Permit	9/18/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		90	25
	3200014041	Irrigation	Yes	Record	10/1/1987	16 HAWAII WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520789	409460	2,281.54	88.5	15
	3200013970	Irrigation	Yes	Record	11/17/1987	40-A MICHIGAN AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	520789	409460	2,281.54	70	0
	3200013969	Irrigation	Yes	Record	9/26/1987	18 ROOSEVELT CITY ROAD	Ocean	Manchester Twp			Prop Loc - Dig Image	520791	408111	3,225.32	50	0
	3200013968	Irrigation	Yes	Permit	8/31/1987		Ocean	Manchester Twp	102.32	14	Prop Loc - Hard Copy	524481	404642		80	25
	3200013936	Irrigation	Yes	Record	10/15/1987	3 VERMONT WAY	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	70	0
	3200013898	Irrigation	Yes	Permit	8/12/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200013898	Irrigation	Yes	Record	10/2/1987	27 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	79	0
	3200013896	Irrigation	Yes	Permit	8/12/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521362	407370		80	25
	3200013896	Irrigation	Yes	Record	9/10/1987	44 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	82	25
	3200013895	Irrigation	Yes	Permit	8/12/1987		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521361	408786		80	25
	3200013895	Irrigation	Yes	Record	9/9/1987	11 ALABAMA LANE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521827	409461	3,200.79	102.5	25
	3200013894	Irrigation	Yes	Permit	8/12/1987		Ocean	Manchester Twp	11	8	Prop Loc - Hard Copy	521361	408786		80	25
	3200013894	Irrigation	Yes	Record	9/8/1987	2A FLORIDA CT	Ocean	Manchester Twp	11	8	Prop Loc - Hard Copy	521361	408786		88.5	25
	3200013874	Irrigation	Yes	Permit	8/10/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200013874	Irrigation	Yes	Record	10/12/1987	6A MONTANA DRIVER	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	79	0

	3200013778	Domestic	Yes	Permit	7/8/1987		Ocean	Manchester Twp	99-90	3	Prop Loc - Hard Copy	525493	404643		100	25
	3200013769	Irrigation	Yes	Permit	7/6/1987		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200013769	Irrigation	Yes	Record	9/15/1987	20 COUTH CAROLINA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		88	0
	3200014848	Irrigation	Yes	Permit	6/30/1988		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		85	25
	3200014848	Irrigation	Yes	Record	7/12/1988	13A PENNSYLVANIA DR	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521827	409461	3,200.79	88	25
	3200014818	Irrigation	Yes	Permit	6/22/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		80	25
	3200014818	Irrigation	Yes	Record	7/14/1988	19 ARIZONA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519755	405411	5,369.82	82	25
	3200014794	Irrigation	Yes	Permit	6/20/1988		Ocean	Manchester Twp	102.9	6	Prop Loc - Hard Copy	523467	406057		80	25
	3200014753	Irrigation	Yes	Permit	6/6/1988		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		80	25
	3200014753	Irrigation	Yes	Record	7/6/1988	5A PENNSYLVANIA DR	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521827	409461	3,200.79	88	10
	3200014738	Irrigation	Yes	Permit	6/3/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200014738	Irrigation	Yes	Record	7/12/1988	19 B MICHIGAN AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	78	0
	3200014633	Irrigation	Yes	Permit	4/29/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200014633	Irrigation	Yes	Record	6/29/1988	4 B VERMONT WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	80	0
	3200014548	Irrigation	Yes	Permit	4/18/1988		Ocean	Manchester Twp	102.25	13	Prop Loc - Hard Copy	523465	407372		160	25
	3200014528	Irrigation	Yes	Permit	4/7/1988		Ocean	Manchester Twp	102-25	48	Prop Loc - Hard Copy	525490	407375		120	25
	3200014528	Irrigation	Yes	Record	6/1/1988	FALMOUTH AVE.	Ocean	Manchester Twp	102-25	48	Prop Loc - Dig Image	524947	405417	8,050.23	119	25
	3200014502	Irrigation	Yes	Permit	3/28/1988		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521359	410101		80	25
	3200014502	Irrigation	Yes	Record	6/2/1988	8 PENNSYLVANIA DR	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521359	410101		89	25
	3200014501	Irrigation	Yes	Record	5/10/1988	8A MINNESOTA AVENUE	Ocean	Manchester Twp			Prop Loc - Dig Image	519752	408109	2,742.09	85	0
	3200014483	Irrigation	Yes	Record	5/13/1988	MICHIGAN AVE	Ocean	Manchester Twp			Prop Loc - Dig Image	519751	409459	1,523.79	77	20
	3200014482	Irrigation	Yes	Record	4/26/1988	3 B HAWAII AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520789	409460	2,281.54	82	20
	3200014481	Irrigation	Yes	Record	5/10/1988	3A OAKLAHOMA WAY	Ocean	Manchester Twp	LAKES	CEDAR GL	Prop Loc - Dig Image	521829	408112	3,929.7	95	0
	3200014462	Domestic	Yes	Permit	3/9/1988		Ocean	Manchester Twp	111	4,5,6	Prop Loc - Hard Copy	520269	410100		100	10

	3200014462	Domestic	Yes	Record	3/17/1988	1200 HWY 70 WEST	Ocean	Manchester Twp	111	4,5,6	Prop Loc - Dig Image	521826	410810	2,947.56	95	45
	3200014392	Irrigation	Yes	Permit	2/19/1988	42 AUGUSTA ROAD	Ocean	Manchester Twp	102-8	161	Prop Loc - Hard Copy	525491	406059		105	25
	3200014392	Irrigation	Yes	Record	4/1/1988	42 AUGUSTA ROAD	Ocean	Manchester Twp	102-8	161	Prop Loc - Hard Copy	525491	406059		57	10
	3200014284	Domestic Replacement	Yes	Permit	1/5/1988		Ocean	Manchester Twp	99.92	9	Prop Loc - Hard Copy	521362	407370		100	10
	3200014284	Domestic Replacement	Yes	Record	1/7/1988		Ocean	Manchester Twp	99.92	9	Prop Loc - Hard Copy	521362	407370		99	0
	3200015494	Domestic	Yes	Permit	12/30/1988		Ocean	Manchester Twp	111	10	Prop Loc - Hard Copy	522373	408787		100	15
	3200015494	Domestic	Yes	Record	2/11/1989	59 ROOSEVELT CITY RD	Ocean	Manchester Twp	111	10.02	Prop Loc - Dig Image	521831	406763	4,927.54	107	12
	3200015490	Irrigation	Yes	Permit	12/27/1988		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521359	410101		85	25
	3200015490	Irrigation	Yes	Record	4/11/1989	12 PENNSYLVANIA DR	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	522866	409462	4,176.21	95.5	25
	3200015483	Irrigation	Yes	Permit	12/22/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522371	410103		85	25
	3200015483	Irrigation	Yes	Record	4/11/1989	3B TENNESSE DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	82	25
	3200015482	Irrigation	Yes	Permit	12/22/1988		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521359	410101		85	25
	3200015482	Irrigation	Yes	Record	4/12/1989	8B OKLAHOMA WAY	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	88	25
	3200015324	Irrigation	Yes	Permit	11/9/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200015324	Irrigation	Yes	Record	4/5/1989	10 A MINNESOTA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	80	0
	3200015317	Irrigation	Yes	Permit	11/3/1988		Ocean	Manchester Twp	102-12	24	Prop Loc - Hard Copy	523467	406057		90	25
	3200015294	Irrigation	Yes	Permit	10/25/1988		Ocean	Manchester Twp	102.25	53	Prop Loc - Hard Copy	524475	408790		90	15
	3200015293	Irrigation	Yes	Permit	10/25/1988		Ocean	Manchester Twp	102.14	26	Prop Loc - Hard Copy	524475	408790		90	15
	3200015281	Irrigation	Yes	Record	11/30/1988	2 MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520791	408111	3,225.32	97	20
	3200015254	Irrigation	Yes	Permit	9/30/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200015254	Irrigation	Yes	Record	12/9/1988	30 TENAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	79	0
	3200015189	Irrigation	Yes	Record	4/10/1989	32 ARIZONA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	84	25
	3200015169	Irrigation	Yes	Permit	9/6/1988		Ocean	Manchester Twp	102-24	58	Prop Loc - Hard Copy	525491	406059		130	25
	3200015166	Irrigation	Yes	Permit	9/6/1988	2 WESTPORT DR	Ocean	Manchester Twp	102-19	15	Prop Loc - Hard Copy	523463	408789		80	20

	3200015107	Irrigation	Yes	Permit	8/25/1988		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		80	15
	3200015107	Irrigation	Yes	Record	9/16/1988	13 ALABAMA LANE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	522866	409462	4,176.21	120	0
	3200015096	Domestic Replacement	Yes	Permit	8/23/1988	56 CHERRY STREET	Ocean	Manchester Twp	18	1.07	Prop Loc - Hard Copy	524477	407373		100	10
	3200015096	Domestic Replacement	Yes	Record	8/26/1988	56 CHERRY STREET	Ocean	Manchester Twp	1.07	18	Prop Loc - Dig Image	523909	405416	7,301.33	100	0
	3200015096	Domestic Replacement	Yes	Record	8/26/1988	56 CHERRY STREET	Ocean	Manchester Twp	18	1.07	Prop Loc - Hard Copy	524477	407373		100	10
	3200015032	Irrigation	Yes	Permit	8/11/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200015032	Irrigation	Yes	Record	10/4/1988	2 INDIANA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520789	409460	2,281.54	88	0
	3200015031	Irrigation	Yes	Permit	8/11/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200015031	Irrigation	Yes	Record	10/12/1988	12 ROOSEVELT CITY DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	521829	408112	3,929.7	79	0
	3200015030	Irrigation	Yes	Permit	8/11/1988		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		80	15
	3200015030	Irrigation	Yes	Record	9/16/1988	6 NEW YOR AVENUE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	79	0
	3200015023	Irrigation	Yes	Permit	8/10/1988		Ocean	Manchester Twp	102-23	50	Prop Loc - Hard Copy	525491	406059		90	25
	3200015011	Irrigation	Yes	Permit	8/5/1988		Ocean	Manchester Twp	52-23	29	Prop Loc - Hard Copy	524474	410105		85	15
	3200015010	Irrigation	Yes	Permit	8/5/1988		Ocean	Manchester Twp	52.17	7	Prop Loc - Hard Copy	523462	410104		90	15
	3200015009	Irrigation	Yes	Permit	8/5/1988		Ocean	Manchester Twp	52.13	30	Prop Loc - Hard Copy	523462	410104		90	15
	3200014954	Irrigation	Yes	Permit	8/3/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		88	25
	3200014954	Irrigation	Yes	Record	9/14/1988	1 ILLINOIS DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520791	408111	3,225.32	89	25
	3200014953	Irrigation	Yes	Permit	8/3/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	25
	3200014953	Irrigation	Yes	Record	9/2/1988	43A ARIZONA AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	85	0
	3200014910	Irrigation	Yes	Permit	7/21/1988		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200014910	Irrigation	Yes	Record	9/2/1988	14 IOWA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	79	0
	3200014883	Irrigation	Yes	Permit	7/13/1988		Ocean	Manchester Twp	102.24	7	Prop Loc - Hard Copy	523462	410104		120	25
	3200014880	Irrigation	Yes	Record	9/1/1988	10A TEXAS BLVD	Ocean	Berkeley Twp	113	1	Prop Loc - Dig Image	520791	408111	3,225.32	84	0
	3200015932	Irrigation	Yes	Permit	6/9/1989	412B HIGHLAND DRIVE	Ocean	Manchester Twp	90	10	Prop Loc - Hard Copy	524477	407373		80	15

	3200015931	Irrigation	Yes	Record	8/9/1989	38B MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518714	408108	2,606.08	73	20
	3200015885	Irrigation	Yes	Permit	5/18/1989		Ocean	Manchester Twp	75	70	Prop Loc - Hard Copy	525488	408791		80	15
	3200015884	Irrigation	Yes	Permit	5/18/1989		Ocean	Manchester Twp	90	10	Prop Loc - Hard Copy	523463	408789		80	15
	3200015881	Irrigation	Yes	Permit	5/18/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	524475	408790		80	15
	3200015881	Irrigation	Yes	Record	7/10/1989	2 UTAH DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	524475	408790		60	0
	3200015880	Irrigation	Yes	Permit	5/18/1989		Ocean	Manchester Twp	102-23	11	Prop Loc - Hard Copy	525491	406059		120	25
	3200015880	Irrigation	Yes	Record	7/28/1989	74 FALMOUTH AVE	Ocean	Manchester Twp	102-23	11	Prop Loc - Dig Image	524947	405417	8,050.23	117	25
	3200015864	Irrigation	Yes	Permit	5/9/1989		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521361	408786		85	25
	3200015864	Irrigation	Yes	Record	7/7/1989	1 B COLORADO WAY	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521827	409461	3,200.79	98	25
	3200015861	Irrigation	Yes	Permit	5/9/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	25
	3200015861	Irrigation	Yes	Record	7/7/1989	22A ARIZONA AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	84	0
	3200015818	Irrigation	Yes	Permit	4/24/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	524479	406058		60	15
	3200015817	Irrigation	Yes	Permit	4/24/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	25
	3200015817	Irrigation	Yes	Record	7/28/1989	3 B GEORGIA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	83	0
	3200015816	Irrigation	Yes	Permit	4/24/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		85	25
	3200015816	Irrigation	Yes	Record	7/10/1989	6A WISCONSIN LANE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	83	25
	3200015764	Irrigation	Yes	Permit	4/17/1989		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		80	15
	3200015764	Irrigation	Yes	Record	6/30/1989	5 NEW HAMPSHIRE LANE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521827	409461	3,200.79	78	0
	3200015763	Irrigation	Yes	Permit	4/14/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	523467	406057		50	15
	3200015763	Irrigation	Yes	Record	4/30/1989	12 MICHIGAN AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519751	409459	1,523.79	93	0
	3200015723	Irrigation	Yes	Permit	4/4/1989	4A BRISTOL ST	Ocean	Manchester Twp	75.133	50	Prop Loc - Hard Copy	524475	408790		50	15
	3200015723	Irrigation	Yes	Record	4/4/1989	4A BRISTOL ST	Ocean	Manchester Twp	75.133	50	Prop Loc - Hard Copy	524475	408790		55	20
	3200015722	Irrigation	Yes	Permit	4/4/1989	22 FALMOUTH AVE	Ocean	Manchester Twp	102.22	24	Prop Loc - Hard Copy	523463	408789		60	15
	3200015683	Irrigation	Yes	Permit	3/30/1989	5 MILL CT	Ocean	Manchester Twp	75.134	98	Prop Loc - Hard Copy	523467	406057		80	20

	3200015682	Irrigation	Yes	Permit	3/30/1989	41 NORWALK AVE	Ocean	Manchester Twp	102.08	64	Prop Loc - Hard Copy	525490	407375		120	20
	3200015669	Domestic	Yes	Permit	3/22/1989		Ocean	Manchester Twp	99-111	7	Prop Loc - Hard Copy	523467	406057		100	15
	3200015655	Irrigation	Yes	Permit	3/14/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	525493	404643		90	15
	3200015655	Irrigation	Yes	Record	4/17/1987	10 MICHIGAN AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519751	409459	1,523.79	93	20
	3200015640	Irrigation	Yes	Permit	3/10/1989		Ocean	Manchester Twp	102.14	17	Prop Loc - Hard Copy	525490	407375		90	15
	3200015630	Irrigation	Yes	Permit	3/2/1989		Ocean	Manchester Twp	102-24	13	Prop Loc - Hard Copy	522371	410103		120	25
	3200015627	Irrigation	Yes	Permit	3/1/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200015627	Irrigation	Yes	Record	4/5/1989	11 MARYLAND AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		90	0
	3200015625	Irrigation	Yes	Permit	2/28/1989		Ocean	Manchester Twp	90	10	Prop Loc - Hard Copy	524479	406058		70	15
	3200015623	Irrigation	Yes	Permit	2/28/1989		Ocean	Manchester Twp	75	70	Prop Loc - Hard Copy	525488	408791		70	15
	3200015622	Irrigation	Yes	Permit	2/28/1989		Ocean	Manchester Twp	75.119	56	Prop Loc - Hard Copy	525490	407375		90	15
	3200015511	Domestic Replacement	Yes	Permit	2/3/1989	205 CHERRY STREET	Ocean	Manchester Twp	85.02	56	Prop Loc - Hard Copy	524472	411421		110	10
	3200015511	Domestic Replacement	Yes	Record	2/5/1989	205 CHERRY STREET	Ocean	Manchester Twp	85.02	56	Prop Loc - Hard Copy	524472	411421		110	10
	3200016370	Irrigation	Yes	Permit	11/13/1989	ALASKA AVE	Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	522375	407371		80	15
	3200016370	Irrigation	Yes	Record	11/17/1989	20 A ALASKA AVE	Ocean	Manchester Twp	113	01	Prop Loc - Dig Image	518715	406759	3,953.39	80	20
	3200016341	Domestic Replacement	Yes	Permit	11/8/1989		Ocean	Jackson Twp	236	3	Prop Loc - Hard Copy	525491	406059		100	10
	3200016159	Irrigation	Yes	Permit	8/23/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		85	25
	3200016159	Irrigation	Yes	Record	9/21/1989	7B WISCONSIN LANE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	81	25
	3200016158	Irrigation	Yes	Permit	8/23/1989		Ocean	Beach Haven Boro	113	1	Prop Loc - Hard Copy	523463	408789		40	15
	3200016158	Irrigation	Yes	Record	9/14/1989	8-B DELAWARE WAY	Ocean	Beach Haven Boro	111	8	Prop Loc - Dig Image	521827	409461	3,200.79	93	20
	3200016148	Irrigation	Yes	Permit	8/15/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	523463	408789		80	15
	3200016148	Irrigation	Yes	Record	9/8/1989	42 A MICHIGAN AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	83	20
	3200016147	Irrigation	Yes	Permit	8/15/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	523465	407372		90	15
	3200016147	Irrigation	Yes	Record	9/14/1989	MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520791	408111	3,225.32	93	20

	3200016077	Irrigation	Yes	Permit	8/2/1989	1B HAMILTON LANE	Ocean	Manchester Twp	77	85	Prop Loc - Hard Copy	523463	408789		80	15
	3200016050	Irrigation	Yes	Permit	7/24/1989		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		85	25
	3200016050	Irrigation	Yes	Record	8/16/1989	8B SOUTH CAROLINA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520791	408111	3,225.32	88	25
	3200016035	Domestic Replacement	Yes	Permit	7/19/1989		Ocean	Manchester Twp	86-05	7	Prop Loc - Hard Copy	525488	408791		75	5
	3200015994	Domestic	Yes	Permit	7/6/1989		Ocean	Manchester Twp	99.102	3	Prop Loc - Hard Copy	524481	404642		100	15
	3200016945	Irrigation	Yes	Record	7/20/1990	4 B OHIO DRIVE	Ocean	Manchester Twp	113	01	Prop Loc - Dig Image	519754	406760	4,044.34	80	20
	3200016921	Irrigation	Yes	Permit	5/11/1990		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	524477	407373		80	15
	3200016921	Irrigation	Yes	Record	6/24/1990	PENNSYLVANIA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	521827	409461	3,200.79	80	20
	3200016920	Irrigation	Yes	Permit	5/11/1990		Ocean	Manchester Twp	75 -101	124	Prop Loc - Hard Copy	524477	407373		80	15
	3200016905	Irrigation	Yes	Permit	5/4/1990		Ocean	Manchester Twp	3	97	Prop Loc - Hard Copy	524479	406058		80	15
	3200016846	Irrigation	Yes	Permit	4/10/1990		Ocean	Manchester Twp	75-146	48	Prop Loc - Hard Copy	521361	408786		90	15
	3200016846	Irrigation	Yes	Record	4/10/1990		Ocean	Manchester Twp	75-146	48	Prop Loc - Hard Copy	521361	408786		55	20
	3200016838	Irrigation	Yes	Permit	4/3/1990		Ocean	Manchester Twp	85	5	Prop Loc - Hard Copy	525488	408791		120	30
	3200016832	Irrigation	Yes	Permit	4/2/1990		Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	520272	407368		85	24
	3200016832	Irrigation	Yes	Record	5/22/1990	3B WISCONSIN LANE	Ocean	Manchester Twp	113	01	Prop Loc - Dig Image	519751	409459	1,523.79	83.5	25
	3200016823	Domestic	Yes	Permit	3/27/1990		Ocean	Manchester Twp	99.93	5	Prop Loc - Hard Copy	523468	404640		140	12
	3200016770	Irrigation	Yes	Permit	3/22/1990		Ocean	Manchester Twp	03	97	Prop Loc - Hard Copy	523462	410104		80	15
	3200016770	Irrigation	Yes	Record	3/22/1990		Ocean	Manchester Twp	03	97	Prop Loc - Hard Copy	523462	410104		50	20
	3200016769	Irrigation	Yes	Permit	3/22/1990		Ocean	Manchester Twp	102.8	160	Prop Loc - Hard Copy	524481	404642		80	15
	3200016769	Irrigation	Yes	Record	5/27/1990	40 AUGUSTA RD	Ocean	Manchester Twp	102.08	160	Prop Loc - Hard Copy	524481	404642		98	20
	3200016768	Irrigation	Yes	Permit	3/22/1990		Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	522376	406055		80	15
	3200016768	Irrigation	Yes	Record	3/26/1990	40 B ARIZONA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	80	20
	3200016767	Irrigation	Yes	Permit	3/22/1990		Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	525491	406059		80	15
	3200016767	Irrigation	Yes	Record	4/2/1990	MICHIGAN AVE	Ocean	Manchester Twp	113	01	Prop Loc - Dig Image	520792	406761	4,386.4	80	20

	3200016766	Irrigation	Yes	Permit	3/22/1990		Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	522371	410103		80	15
	3200016766	Irrigation	Yes	Record	4/2/1990	NEBRASKA AVE	Ocean	Manchester Twp	113	01	Prop Loc - Dig Image	520791	408111	3,225.32	80	20
	3200016635	Irrigation	Yes	Permit	2/28/1990		Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	520272	407368		85	22
	3200016635	Irrigation	Yes	Record	3/28/1990	2 MINNESOTA AVE	Ocean	Manchester Twp	113	01	Prop Loc - Dig Image	519751	409459	1,523.79	89	25
	3200016623	Irrigation	Yes	Permit	2/22/1990	78 NORWALK AVE	Ocean	Manchester Twp	102.10	44	Prop Loc - Hard Copy	524481	404642		80	15
	3200016614	Irrigation	Yes	Permit	2/16/1990	11 C MILL ROAD	Ocean	Manchester Twp	75-143	17	Prop Loc - Hard Copy	522373	408787		80	15
	3200016604	Irrigation	Yes	Permit	2/8/1990		Ocean	Manchester Twp	77	85	Prop Loc - Hard Copy	524479	406058		80	15
	3200016597	Irrigation	Yes	Permit	2/1/1990	TEXAS BLVD	Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	523467	406057		80	15
	3200016597	Irrigation	Yes	Record	2/13/1990	32 ROOSEVELT CITY RD	Ocean	Manchester Twp	113	01	Prop Loc - Dig Image	521829	408112	3,929.7	90	0
	3200016586	Irrigation	Yes	Permit	1/25/1990	MAINE & MINNESOTA AVES	Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	523463	408789		90	15
	3200016586	Irrigation	Yes	Record	1/30/1990	1 VIRGINIA DR	Ocean	Manchester Twp	113	01	Prop Loc - Dig Image	519752	408109	2,742.09	85	20
	3200016568	Domestic	Yes	Permit	1/16/1990		Ocean	Manchester Twp	99.91	4	Prop Loc - Hard Copy	525493	404643		140	12
	3200017404	Irrigation	Yes	Permit	11/8/1990		Ocean	Manchester Twp	102.27	19	Prop Loc - Hard Copy	523462	410104		85	20
	3200017317	Domestic	Yes	Permit	10/12/1990		Ocean	Manchester Twp	99.90	1	Prop Loc - Hard Copy	525491	406059		110	12
	3200017307	Irrigation	Yes	Permit	10/9/1990		Ocean	Manchester Twp	102-31	24	Prop Loc - Hard Copy	523463	408789		75	22
	3200017241	Irrigation	Yes	Permit	8/16/1990		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		75	15
	3200017241	Irrigation	Yes	Record	10/16/1990	15 RHODE ISLAND DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	76	0
	3200017200	Domestic	Yes	Permit	8/10/1990		Ocean	Manchester Twp	99-133	1	Prop Loc - Hard Copy	523468	404640		100	25
	3200017097	Irrigation	Yes	Permit	7/11/1990		Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521361	408786		85	22
	3200017097	Irrigation	Yes	Record	7/27/1990	2A ALABAMA AVE	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521827	409461	3,200.79	88.5	25
	3200018033	Irrigation	Yes	Permit	10/17/1991		Ocean	Manchester Twp	102.26	21	Prop Loc - Hard Copy	525491	406059		80	20
	3200018023	Irrigation	Yes	Permit	10/8/1991		Ocean	Manchester Twp	102.10	55	Prop Loc - Hard Copy	524479	406058		85	20
	3200018008	Irrigation	Yes	Permit	10/1/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		70	15
	3200018008	Irrigation	Yes	Record	10/21/1991	2B KANSAS ST	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	68	20

	3200018007	Irrigation	Yes	Permit	10/1/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	20
	3200018007	Irrigation	Yes	Record	10/24/1991	24 B ARIZONA AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	83	0
	3200017991	Irrigation	Yes	Permit	9/20/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		80	15
	3200017991	Irrigation	Yes	Record	10/21/1991	50 MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518714	408108	2,606.08	78	20
	3200017988	Irrigation	Yes	Permit	9/19/1991		Ocean	Manchester Twp	102.10	6	Prop Loc - Hard Copy	525491	406059		60	20
	3200017983	Domestic Replacement	Yes	Record	9/18/1991	401 LAKEWOOD AVE	Ocean	Manchester Twp	85.17	1	Prop Loc - Dig Image	524941	409465	6,187.69	120	10
	3200017969	Irrigation	Yes	Permit	9/11/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		80	15
	3200017969	Irrigation	Yes	Record	10/10/1991	4A GEORGIA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	75	20
	3200017949	Domestic	Yes	Permit	8/28/1991		Ocean	Manchester Twp	99.65	4	Prop Loc - Hard Copy	525491	406059		110	15
	3200017939	Public Non-Community	Yes	Permit	8/16/1991		Ocean	Manchester Twp	116	26	Prop Loc - Hard Copy	522371	410103		80	15
	3200017916	Irrigation	Yes	Permit	8/13/1991		Ocean	Manchester Twp	102.31	25	Prop Loc - Hard Copy	524475	408790		60	18
	3200017824	Irrigation	Yes	Permit	7/17/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		90	15
	3200017824	Irrigation	Yes	Record	8/21/1991	7-B OKLAHOMA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		80	20
	3200017823	Irrigation	Yes	Permit	7/17/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		90	15
	3200017823	Irrigation	Yes	Record	8/20/1991	7A OKLAHOMA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	521829	408112	3,929.7	80	20
	3200017822	Irrigation	Yes	Permit	7/17/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		90	15
	3200017822	Irrigation	Yes	Record	8/20/1991	9 DERMONT AWAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	80	0
	3200017821	Irrigation	Yes	Permit	7/17/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		90	15
	3200017821	Irrigation	Yes	Record	8/20/1991	2 WYOMNG AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	85	0
	3200017742	Irrigation	Yes	Permit	6/18/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		90	15
	3200017742	Irrigation	Yes	Record	7/24/1991	4A KENTUCKY WAY	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	70	20
	3200017739	Irrigation	Yes	Permit	6/13/1991		Ocean	Manchester Twp	102.27	17	Prop Loc - Hard Copy	522371	410103		85	20
	3200017738	Irrigation	Yes	Permit	6/13/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	20
	3200017738	Irrigation	Yes	Record	7/11/1991	52 B MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	84	0

	3200017719	Irrigation	Yes	Permit	6/10/1991		Ocean	Manchester Twp	102.08	158	Prop Loc - Hard Copy	523468	404640		80	15
	3200017718	Irrigation	Yes	Permit	6/10/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		100	15
	3200017718	Irrigation	Yes	Record	7/24/1991	27 A ROOSEVELT BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		75	0
	3200017671	Irrigation	Yes	Permit	5/14/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	20
	3200017671	Irrigation	Yes	Record	6/17/1991	54 A MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	83.5	0
	3200017628	Irrigation	Yes	Permit	4/19/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520274	406053		80	15
	3200017628	Irrigation	Yes	Record	5/30/1991	MICHIGAN AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	100	20
	3200017627	Irrigation	Yes	Permit	4/19/1991		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520274	406053		80	15
	3200017627	Irrigation	Yes	Record	5/30/1991	14 RHODES ISLAND DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	100	20
	3200017607	Domestic	Yes	Permit	4/11/1991		Ocean	Manchester Twp	116	26	Prop Loc - Hard Copy	521358	411417		80	15
	3200017588	Irrigation	Yes	Permit	3/26/1991		Ocean	Manchester Twp	102.32	19	Prop Loc - Hard Copy	523467	406057		80	20
	3200017546	Irrigation	Yes	Permit	2/14/1991		Ocean	Manchester Twp	102.27	16	Prop Loc - Hard Copy	522371	410103		65	20
	3200018424	Irrigation	Yes	Permit	4/28/1992		Ocean	Manchester Twp	90	13	Prop Loc - Hard Copy	525488	408791		60	15
	3200018423	Irrigation	Yes	Permit	4/28/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		60	15
	3200018423	Irrigation	Yes	Record	6/16/1992	15 MONTANA DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	55	20
	3200018412	Irrigation	Yes	Permit	4/23/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	18
	3200018412	Irrigation	Yes	Record	6/3/1992	26 ARIZONA AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	84	0
	3200018409	Irrigation	Yes	Permit	4/22/1992		Ocean	Manchester Twp	102.21	23	Prop Loc - Hard Copy	523465	407372		60	15
	3200018409	Irrigation	Yes	Record	6/21/1992	44 WESTPORT DR	Ocean	Manchester Twp	102.21	23	Prop Loc - Dig Image	520792	406761	4,386.4	60	20
	3200018408	Irrigation	Yes	Permit	4/22/1992		Ocean	Manchester Twp	97	2	Prop Loc - Hard Copy	525486	410107		60	15
	3200018401	Irrigation	Yes	Permit	4/14/1992		Ocean	Manchester Twp	102.08	15	Prop Loc - Hard Copy	524479	406058		60	15
	3200018342	Irrigation	Yes	Permit	3/31/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520274	406053		80	18
	3200018342	Irrigation	Yes	Record	5/7/1992	29 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	83	25
	3200018323	Irrigation	Yes	Permit	3/20/1992		Ocean	Manchester Twp	107	15	Prop Loc - Hard Copy	525488	408791		60	20

	3200018320	Irrigation	Yes	Permit	3/19/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		60	15
	3200018320	Irrigation	Yes	Record	4/13/1992	3B OKLAHOMA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	521829	408112	3,929.7	65	20
	3200018289	Domestic Replacement	Yes	Permit	3/4/1992		Ocean	Manchester Twp	107	5	Prop Loc - Hard Copy	522370	411418		100	10
	3200018289	Domestic Replacement	Yes	Record	3/5/1992	800 FT N OF CTY RT 12 E RR AVE	Ocean	Manchester Twp	107	5	Prop Loc - Dig Image	523908	406765	6,389.83	105	10
	3200018278	Irrigation	Yes	Permit	2/26/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		80	15
	3200018278	Irrigation	Yes	Record	3/25/1992	40A TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	75	20
	3200018275	Irrigation	Yes	Permit	2/25/1992		Ocean	Manchester Twp	90	10	Prop Loc - Hard Copy	524479	406058		60	15
	3200018274	Irrigation	Yes	Permit	2/25/1992		Ocean	Manchester Twp	90	10	Prop Loc - Hard Copy	524479	406058		60	15
	3200018273	Irrigation	Yes	Permit	2/25/1992		Ocean	Manchester Twp	90	10	Prop Loc - Hard Copy	524479	406058		60	15
	3200018247	Irrigation	Yes	Permit	2/11/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		80	15
	3200018247	Irrigation	Yes	Record	3/6/1992	10A IKLAHOMA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	521829	408112	3,929.7	80	20
	3200018242	Domestic Replacement	Yes	Permit	2/10/1992		Ocean	Manchester Twp	107	7	Prop Loc - Hard Copy	523460	411419		100	10
	3200018242	Domestic Replacement	Yes	Record	2/10/1992	179 HIGHWAY 539	Ocean	Manchester Twp	107	7	Prop Loc - Dig Image	522869	406764	5,610.45	101	10
	3200018241	Irrigation	Yes	Permit	2/7/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200018241	Irrigation	Yes	Record	3/5/1992	14B MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	0
	3200018535	Irrigation	Yes	Permit	6/22/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		70	15
	3200018535	Irrigation	Yes	Record	8/8/1992	42B MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518714	408108	2,606.08	70	20
	3200018519	Irrigation	Yes	Permit	6/17/1992		Ocean	Manchester Twp	3	97	Prop Loc - Hard Copy	525490	407375		60	15
	3200018511	Irrigation	Yes	Permit	6/11/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		85	18
	3200018511	Irrigation	Yes	Record	7/7/1992	2 MICHIGAN AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		88.5	25
	3200018491	Irrigation	Yes	Permit	6/2/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	18
	3200018491	Irrigation	Yes	Record	7/7/1992	150 WYOMING AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	89	0
	3200018490	Irrigation	Yes	Permit	6/2/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		85	18
	3200018490	Irrigation	Yes	Record	7/8/1992	35 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	521829	408112	3,929.7	87.5	10

	3200018480	Irrigation	Yes	Record	7/9/1992	WEST VIRGINIA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518714	408108	2,606.08	84.5	25
	3200018456	Irrigation	Yes	Permit	5/14/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		60	15
	3200018456	Irrigation	Yes	Record	7/1/1992	10B KENTUCKY WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		55	20
	3200018449	Irrigation	Yes	Record	7/8/1992	4 MONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	86	25
	3200018448	Irrigation	Yes	Permit	5/12/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	18
	3200018448	Irrigation	Yes	Record	6/29/1992	9B WISCONSIN LANE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	85.4	0
	3200018444	Irrigation	Yes	Permit	5/8/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		60	15
	3200018444	Irrigation	Yes	Record	6/16/1992	6 VIRGINIA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519752	408109	2,742.09	75	20
	3200018884	Public Non-Community	Yes	Permit	11/16/1992		Ocean	Manchester Twp	116	26	Prop Loc - Hard Copy	521361	408786		80	15
	3200018878	Irrigation	Yes	Permit	11/10/1992	30 FALMOUTH AVE	Ocean	Manchester Twp	102.23	38	Prop Loc - Hard Copy	520271	408785		80	15
	3200018878	Irrigation	Yes	Record	4/16/1993	30 FALMOUTH AVE	Ocean	Manchester Twp	102.23	38	Prop Loc - Hard Copy	520271	408785		103	20
	3200018811	Irrigation	Yes	Permit	10/9/1992	MICHIGAN AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	15
	3200018811	Irrigation	Yes	Record	11/4/1992	MICHIGAN AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		70	20
	3200018619	Irrigation	Yes	Permit	7/27/1992		Ocean	Manchester Twp	98	14.68	Prop Loc - Hard Copy	524475	408790		60	15
	3200018602	Irrigation	Yes	Permit	7/16/1992		Ocean	Manchester Twp	98	14.64	Prop Loc - Hard Copy	524475	408790		60	15
	3200018601	Irrigation	Yes	Permit	7/16/1992		Ocean	Manchester Twp	98	14.69	Prop Loc - Hard Copy	524475	408790		60	15
	3200018589	Irrigation	Yes	Permit	7/13/1992		Ocean	Manchester Twp	102.20	15	Prop Loc - Hard Copy	523465	407372		70	15
	3200018588	Irrigation	Yes	Permit	7/10/1992		Ocean	Manchester Twp	98	14.54	Prop Loc - Hard Copy	524479	406058		60	15
	3200018587	Irrigation	Yes	Permit	7/10/1992		Ocean	Manchester Twp	98	14.65	Prop Loc - Hard Copy	524479	406058		60	15
	3200018582	Irrigation	Yes	Permit	7/9/1992		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	18
	3200018582	Irrigation	Yes	Record	8/6/1992	7 INDIANA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520791	408111	3,225.32	86	10
	3200018569	Irrigation	Yes	Permit	7/7/1992		Ocean	Manchester Twp	98	14	Prop Loc - Hard Copy	523463	408789		60	15
	3200019516	Domestic Replacement	Yes	Permit	10/4/1993	2101 LAKE ROAD	Ocean	Manchester Twp	102	3	Prop Loc - Hard Copy	522371	410103		100	25
	3200019516	Domestic Replacement	Yes	Record	10/2/1993	2101 LAKE ROAD	Ocean	Manchester Twp	102	3	Prop Loc - Hard Copy	522371	410103		105	25

	3200019496	Irrigation	Yes	Permit	9/22/1993	177B COLUMBINE AVENUE	Ocean	Manchester Twp	90	10.52	Prop Loc - Hard Copy	525486	410107		60	15
	3200019496	Irrigation	Yes	Record	10/8/1993	177B COLUMBINE AVENUE	Ocean	Manchester Twp	90	10.52	Prop Loc - Hard Copy	525486	410107		60	20
	3200019495	Irrigation	Yes	Permit	9/22/1993	403A HIGHLAND DRIVE	Ocean	Manchester Twp	90	13.47	Prop Loc - Hard Copy	524481	404642		70	15
	3200019495	Irrigation	Yes	Record	10/5/1993	403A HIGHLAND DRIVE	Ocean	Manchester Twp	90	13.47	Prop Loc - Hard Copy	524481	404642		70	20
	3200019494	Irrigation	Yes	Permit	9/22/1993	403-B HIGHLAND DR	Ocean	Manchester Twp	90	13.48	Prop Loc - Hard Copy	524481	404642		70	15
	3200019494	Irrigation	Yes	Record	10/5/1993	403-B HIGHLAND DR	Ocean	Manchester Twp	90	13.48	Prop Loc - Hard Copy	524481	404642		70	20
	3200019486	Domestic Replacement	Yes	Permit	9/20/1993	1340 ELIZABETH AVENUE	Ocean	Manchester Twp	99.235	3	Prop Loc - Hard Copy	523468	404640		100	10
	3200019486	Domestic Replacement	Yes	Record	9/22/1993	1340 ELIZABETH AVENUE	Ocean	Manchester Twp	99.235	3	Prop Loc - Hard Copy	523468	404640		122	10
	3200019452	Irrigation	Yes	Permit	8/30/1993	10-A NEBRASKA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019452	Irrigation	Yes	Record	10/1/1993	10-A NEBRASKA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	20
	3200019451	Irrigation	Yes	Permit	8/30/1993	4 HAWAII WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019451	Irrigation	Yes	Record	10/1/1993	4 HAWAII WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		85	20
	3200019449	Irrigation	Yes	Permit	8/26/1993	51-A TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		70	15
	3200019449	Irrigation	Yes	Record	10/8/1993	51-A TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		70	20
	3200019428	Irrigation	Yes	Permit	8/17/1993	7-B MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		80	15
	3200019428	Irrigation	Yes	Record	9/29/1993	7-B MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		85	20
	3200019410	Irrigation	Yes	Permit	8/6/1993	47 BOWIE DRIVE	Ocean	Manchester Twp	97	1.52	Prop Loc - Hard Copy	525488	408791		60	15
	3200019410	Irrigation	Yes	Record	9/8/1993	47 BOWIE DRIVE	Ocean	Manchester Twp	97	1.52	Prop Loc - Hard Copy	525488	408791		70	20
	3200019399	Irrigation	Yes	Permit	8/3/1993	4B LENAPE DRIVE	Ocean	Manchester Twp	75	70.658	Prop Loc - Hard Copy	525486	410107		80	15
	3200019399	Irrigation	Yes	Record	10/7/1993	4B LENAPE DRIVE	Ocean	Manchester Twp	75	70.658	Prop Loc - Hard Copy	525486	410107		70	20
	3200019373	Irrigation	Yes	Permit	7/26/1993	12-B MONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		80	15
	3200019373	Irrigation	Yes	Record	8/30/1993	12-B MONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		70	20
	3200019372	Irrigation	Yes	Permit	7/26/1993	12-A MONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019372	Irrigation	Yes	Record	8/30/1993	12-A MONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		70	20

	3200019363	Irrigation	Yes	Permit	7/21/1993		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		80	15
	3200019362	Irrigation	Yes	Permit	7/21/1993	25 CHELSEA DRIVE	Ocean	Manchester Twp	102.11	11	Prop Loc - Hard Copy	523467	406057		80	15
	3200019362	Irrigation	Yes	Record	8/25/1993	25 CHELSEA DRIVE	Ocean	Manchester Twp	102.11	11	Prop Loc - Hard Copy	523467	406057		85	20
	3200019347	Irrigation	Yes	Permit	7/13/1993	21 ATTLEBORO LANE	Ocean	Manchester Twp	102-8	143	Prop Loc - Hard Copy	522375	407371		80	18
	3200019347	Irrigation	Yes	Record	8/2/1993	21 ATTLEBORO LANE	Ocean	Manchester Twp	102-8	143	Prop Loc - Hard Copy	522375	407371		58	25
	3200019346	Domestic Replacement	Yes	Permit	7/13/1993	8 NEBRASKA DR	Ocean	Manchester Twp	105	6	Prop Loc - Hard Copy	524475	408790		100	10
	3200019346	Domestic Replacement	Yes	Record	7/14/1993	8 NEBRASKA DR	Ocean	Manchester Twp	105	6	Prop Loc - Hard Copy	524475	408790		103	18
	3200019345	Irrigation	Yes	Permit	7/12/1993	8 NEBRASKA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521362	407370		60	15
	3200019345	Irrigation	Yes	Record	8/16/1993	8 NEBRASKA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521362	407370		73	20
	3200019319	Irrigation	Yes	Permit	6/30/1993	13 MONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		80	15
	3200019319	Irrigation	Yes	Record	8/16/1993	13 MONTANA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		70	20
	3200019309	Irrigation	Yes	Permit	6/22/1993	2 TENNESEE DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	18
	3200019309	Irrigation	Yes	Record	7/21/1993	2 TENNESEE DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		82	25
	3200019308	Irrigation	Yes	Permit	6/22/1993	31 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	18
	3200019308	Irrigation	Yes	Record	7/22/1993	31 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		83	25
	3200019304	Irrigation	Yes	Permit	6/16/1993		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		80	15
	3200019303	Irrigation	Yes	Permit	6/16/1993	10-B TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		60	15
	3200019303	Irrigation	Yes	Record	7/29/1993	10-B TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		70	20
	3200019292	Irrigation	Yes	Permit	6/10/1993	7 A WISCONSIN LANE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		80	18
	3200019292	Irrigation	Yes	Record	7/15/1993	7 A WISCONSIN LANE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		84	25
	3200019290	Irrigation	Yes	Permit	6/9/1993	40-B ROOSEVELT CITY DR	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		80	15
	3200019290	Irrigation	Yes	Record	7/13/1993	40-B ROOSEVELT CITY DR	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		80	20
	3200019256	Irrigation	Yes	Permit	5/27/1993	2 ATTLEBORO LANE	Ocean	Manchester Twp	102.32	15	Prop Loc - Hard Copy	523465	407372		80	15
	3200019256	Irrigation	Yes	Record	6/17/1993	2 ATTLEBORO LANE	Ocean	Manchester Twp	102.32	15	Prop Loc - Hard Copy	523465	407372		70	20

	3200019221	Irrigation	Yes	Permit	5/11/1993	1A OKLAHOMA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019221	Irrigation	Yes	Record	6/2/1993	1A OKLAHOMA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		90	20
	3200019207	Irrigation	Yes	Permit	4/29/1993	86 MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		80	18
	3200019207	Irrigation	Yes	Record	6/4/1993	86 MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		82	10
	3200019203	Irrigation	Yes	Permit	4/28/1993	MICHIGAN AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		80	15
	3200019203	Irrigation	Yes	Record	6/3/1993	MICHIGAN AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		80	20
	3200019174	Irrigation	Yes	Permit	4/7/1993	4 CONCORD DRIVE	Ocean	Manchester Twp	75	95.09	Prop Loc - Hard Copy	525486	410107		60	15
	3200019174	Irrigation	Yes	Record	5/7/1993	4 CONCORD DRIVE	Ocean	Manchester Twp	75	95.09	Prop Loc - Hard Copy	525486	410107		70	20
	3200019136	Irrigation	Yes	Permit	3/9/1993	33-A CROCUS LANE	Ocean	Manchester Twp	98	14174	Prop Loc - Hard Copy	523465	407372		60	15
	3200019136	Irrigation	Yes	Record	4/12/1993	33-A CROCUS LANE	Ocean	Manchester Twp	98	14174	Prop Loc - Hard Copy	523465	407372		72	20
	3200019065	Irrigation	Yes	Permit	2/8/1993	15 B PENNSYLVANIA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		70	15
	3200019065	Irrigation	Yes	Record	4/11/1993	15 B PENNSYLVANIA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	20
	3200019029	Public Non-Community	Yes	Permit	1/6/1993	ROUTES 539-RT. 70	Ocean	Manchester Twp	116	26	Prop Loc - Hard Copy	521358	411417		100	15
	3200019029	Public Non-Community	Yes	Record	2/8/1993	ROUTES 539-RT. 70	Ocean	Manchester Twp	116	26	Prop Loc - Hard Copy	521358	411417		82	12
	3200019954	Irrigation	Yes	Permit	6/28/1994	28 AUGUSTA ROAD	Ocean	Manchester Twp	102.08	153	Prop Loc - Hard Copy	520271	408785		80	15
	3200019954	Irrigation	Yes	Record	8/11/1994	28 AUGUSTA ROAD	Ocean	Manchester Twp	102.08	153	Prop Loc - Hard Copy	520271	408785		70	20
	3200019909	Irrigation	Yes	Permit	6/7/1994	164-A COLUMBINE AVENUE	Ocean	Manchester Twp	97	3.15	Prop Loc - Hard Copy	525486	410107		60	15
	3200019909	Irrigation	Yes	Record	6/28/1994	164-A COLUMBINE AVENUE	Ocean	Manchester Twp	97	3.15	Prop Loc - Hard Copy	525486	410107		60	20
	3200019887	Irrigation	Yes	Permit	5/26/1994	21-B ARIZONA MICHIGAN AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		60	15
	3200019887	Irrigation	Yes	Record	7/11/1994	21-B ARIZONA MICHIGAN AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		50	20
	3200019870	Irrigation	Yes	Permit	5/11/1994	18 SO. CHESTNUT AVENUE	Ocean	Manchester Twp	102.13	9	Prop Loc - Hard Copy	523465	407372		60	15
	3200019870	Irrigation	Yes	Record	6/14/1994	18 SO. CHESTNUT AVENUE	Ocean	Manchester Twp	102.13	9	Prop Loc - Hard Copy	523465	407372		85	25

	3200019860	Irrigation	Yes	Permit	5/5/1994		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019817	Irrigation	Yes	Permit	4/20/1994	8A OAKLAHOMA WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521362	407370		88	16
	3200019817	Irrigation	Yes	Record	5/25/1994	8A OAKLAHOMA WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521362	407370		83	10
	3200019816	Irrigation	Yes	Permit	4/20/1994	9A RHODE ISLAND DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019816	Irrigation	Yes	Record	6/6/1994	9A RHODE ISLAND DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		60	20
	3200019815	Irrigation	Yes	Permit	4/20/1994	9B RHODE ISLAND DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019815	Irrigation	Yes	Record	6/6/1994	9B RHODE ISLAND DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		50	20
	3200019814	Irrigation	Yes	Permit	4/20/1994	2B NEW YORK DRIVE	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		80	15
	3200019814	Irrigation	Yes	Record	5/4/1994	2B NEW YORK DRIVE	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		55	20
	3200019807	Irrigation	Yes	Permit	4/15/1994	15-B FLORIDA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		80	15
	3200019807	Irrigation	Yes	Record	6/28/1994	15-B FLORIDA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		55	20
	3200019803	Irrigation	Yes	Permit	4/12/1994	12 B. MINNESOTA AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521362	407370		88	16
	3200019803	Irrigation	Yes	Record	5/18/1994	12 B. MINNESOTA AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521362	407370		88	25
	3200019788	Irrigation	Yes	Permit	4/5/1994	19 PENNSYLVANIA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019788	Irrigation	Yes	Record	6/1/1994	19 PENNSYLVANIA DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		55	20
	3200019787	Irrigation	Yes	Permit	4/5/1994	37 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019787	Irrigation	Yes	Record	6/1/1994	37 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		55	20
	3200019745	Irrigation	Yes	Permit	3/21/1994	3 OHIO COURT	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		80	16
	3200019745	Irrigation	Yes	Record	5/20/1994	3 OHIO COURT	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		82	25
	3200019725	Domestic Replacement	Yes	Permit	2/28/1994	109 SCHOOL LANE	Ocean	Manchester Twp	86-04	106.02	Prop Loc - Hard Copy	522371	410103		100	10
	3200019725	Domestic Replacement	Yes	Record	2/28/1994	109 SCHOOL LANE	Ocean	Manchester Twp	86-04	106.02	Prop Loc - Hard Copy	522371	410103		88	18
	3200019721	Irrigation	Yes	Permit	2/24/1994	19 CHURCHILL ROAD'	Ocean	Manchester Twp	102.21	11	Prop Loc - Hard Copy	525491	406059		120	15
	3200019721	Irrigation	Yes	Record	3/30/1994	19 CHURCHILL ROAD'	Ocean	Manchester Twp	102.21	11	Prop Loc - Hard Copy	525491	406059		112	10
	3200020208	Irrigation	Yes	Permit	10/11/1994		Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520274	406053		80	15

	3200020046	Domestic	Yes	Permit	8/5/1994		Ocean	Manchester Twp	99.112	2	Prop Loc - Hard Copy	523468	404640		100	10
	3200020026	Irrigation	Yes	Permit	8/2/1994	MICHIGAN AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		70	15
	3200020026	Irrigation	Yes	Record	10/17/1994	MICHIGAN AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	20
	3200020024	Irrigation	Yes	Permit	7/29/1994	11 A HAWAII WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		80	16
	3200020024	Irrigation	Yes	Record	8/10/1994	11 A HAWAII WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		87	25
	3200020023	Irrigation	Yes	Permit	7/29/1994	11 A HAWAII WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521359	410101		88	16
	3200020023	Irrigation	Yes	Record	8/11/1994	11 A HAWAII WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521359	410101		87	25
	3200020753	Irrigation	Yes	Permit	6/12/1995	4B IDAHO DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	15
	3200020753	Irrigation	Yes	Record	7/2/1995	4B IDAHO DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		72	20
	3200020727	Domestic Replacement	Yes	Permit	5/25/1995	2081 BAYONNE AVE.	Ocean	Manchester Twp	99-52	4	Prop Loc - Hard Copy	525490	407375		100	25
	3200020727	Domestic Replacement	Yes	Record	5/26/1995	2081 BAYONNE AVE.	Ocean	Manchester Twp	99-52	4	Prop Loc - Hard Copy	525490	407375		95	20
	3200020688	Irrigation	Yes	Permit	5/2/1995	18 WESTPORT DRIVE	Ocean	Manchester Twp	102-21	36	Prop Loc - Hard Copy	525490	407375		80	16
	3200020688	Irrigation	Yes	Record	6/20/1995	18 WESTPORT DRIVE	Ocean	Manchester Twp	102-21	36	Prop Loc - Hard Copy	525490	407375		66	12
	3200020684	Irrigation	Yes	Permit	5/1/1995	22 MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	20
	3200020684	Irrigation	Yes	Record	7/7/1995	22 MAINE AVENUE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		76	20
	3200020666	Domestic Replacement	Yes	Permit	4/26/1995	701 CHILVERS AVENUE	Ocean	Manchester Twp	99.101	6	Prop Loc - Hard Copy	524474	410105		100	10
	3200020666	Domestic Replacement	Yes	Record	4/27/1995	701 CHILVERS AVENUE	Ocean	Manchester Twp	99.101	6	Prop Loc - Hard Copy	524474	410105		123	25
	3200020209	Irrigation	Yes	Permit	10/11/1994	11 NEVADA	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200020209	Irrigation	Yes	Record	11/19/1994	11 NEVADA	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		79	20
	3200019888	Irrigation	Yes	Permit	5/26/1994	37 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200019888	Irrigation	Yes	Record	2/6/1995	37 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	55	0
	3200019888	Irrigation	Yes	Record	2/6/1995	37 TEXAS BLVD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		55	20
	3200019389	Irrigation	Yes	Permit	7/29/1993	118 CHELSEA DR.	Ocean	Manchester Twp	102.15	51	Prop Loc - Hard Copy	525490	407375		80	18
	3200019389	Irrigation	Yes	Record	8/27/1993	118 CHELSEA DR.	Ocean	Manchester Twp	102.15	51	Prop Loc - Hard Copy	525490	407375		117	25

	3200018675	Irrigation	Yes	Permit	8/6/1992	12 ATTLEBORO LANE	Ocean	Manchester Twp	102-8	133	Prop Loc - Hard Copy	522376	406055		75	18
	3200018675	Irrigation	Yes	Record	8/27/1992	12 ATTLEBORO LANE	Ocean	Manchester Twp	102-8	133	Prop Loc - Hard Copy	522376	406055		68	25
	3200018664	Irrigation	Yes	Permit	8/4/1992	1 A COLORADO WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521359	410101		80	18
	3200018664	Irrigation	Yes	Record		1 A COLORADO WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521359	410101		96	25
	3200021018	Domestic	Yes	Permit	9/25/1995	ELIZABETHG & BLOOMFIELD	Ocean	Manchester Twp	99.61	3	Prop Loc - Hard Copy	525491	406059		100	27
	3200021018	Domestic	Yes	Record	11/13/1995	ELIZABETHG & BLOOMFIELD	Ocean	Manchester Twp	99.61	3	Prop Loc - Hard Copy	525491	406059		110	27
	3200021004	Domestic Replacement	Yes	Permit	9/22/1995	111 SCHOOL LANE	Ocean	Manchester Twp	86.04	7	Prop Loc - Hard Copy	522371	410103		100	10
	3200021004	Domestic Replacement	Yes	Record	9/25/1995	111 SCHOOL LANE	Ocean	Manchester Twp	86.04	7	Prop Loc - Hard Copy	522371	410103		88	10
	3200020991	Irrigation	Yes	Permit	9/20/1995	21 AUGUSTA ROAD	Ocean	Manchester Twp	102.31	16	Prop Loc - Hard Copy	522373	408787		80	15
	3200020991	Irrigation	Yes	Record	10/19/1995	21 AUGUSTA ROAD	Ocean	Manchester Twp	102.31	16	Prop Loc - Hard Copy	522373	408787		70	20
	3200020990	Domestic Replacement	Yes	Permit	9/20/1995	1701 CHESTER AVENUE	Ocean	Manchester Twp	99.125	6	Prop Loc - Hard Copy	525491	406059		90	15
	3200020990	Domestic Replacement	Yes	Record	10/18/1995	1701 CHESTER AVENUE	Ocean	Manchester Twp	99.125	6	Prop Loc - Hard Copy	525491	406059		100	20
	3200020915	Domestic Replacement	Yes	Permit	8/23/1995	1980 NEW BRUNSWICK AVENUE	Ocean	Manchester Twp	99.93	1	Prop Loc - Hard Copy	524475	408790		80	15
	3200020915	Domestic Replacement	Yes	Record	8/22/1995	1980 NEW BRUNSWICK AVENUE	Ocean	Manchester Twp	99.93	1	Prop Loc - Hard Copy	524475	408790		80	20
	3200020899	Irrigation	Yes	Permit	8/18/1995	30-A CROCUS LANE	Ocean	Manchester Twp	98	14.66	Prop Loc - Hard Copy	522375	407371		70	15
	3200020899	Irrigation	Yes	Record	10/2/1995	30-A CROCUS LANE	Ocean	Manchester Twp	98	14.66	Prop Loc - Hard Copy	522375	407371		60	20
	3200020844	Irrigation	Yes	Permit	7/31/1995	178 CONSTITUTION BLVD	Ocean	Manchester Twp	75	95.25	Prop Loc - Hard Copy	525486	410107		80	15
	3200020844	Irrigation	Yes	Record	8/25/1995	178 CONSTITUTION BLVD	Ocean	Manchester Twp	75	95.25	Prop Loc - Hard Copy	525486	410107		60	20
	3200020815	Domestic Replacement	Yes	Permit	7/17/1995	1561 ZEPPLIN AVENUE	Ocean	Manchester Twp	99-110	2	Prop Loc - Hard Copy	525493	404643		100	18
	3200020815	Domestic Replacement	Yes	Record	7/19/1995	1561 ZEPPLIN AVENUE	Ocean	Manchester Twp	99-110	2	Prop Loc - Hard Copy	525493	404643		90	10
	3200021026	Irrigation	Yes	Permit	9/28/1995	23 NEW YORK AVENUE	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		68	20
	3200021026	Irrigation	Yes	Record	12/15/1995	23 NEW YORK AVENUE	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		80	20
	3200021008	Irrigation	Yes	Permit	9/25/1995	50A HUDSON PARKWAY	Ocean	Manchester Twp	75.85	429	Prop Loc - Hard Copy	520271	408785		60	20

	3200021008	Irrigation	Yes	Record	12/10/1995	50A HUDSON PARKWAY	Ocean	Manchester Twp	75.85	429	Prop Loc - Hard Copy	520271	408785		65	20
	3200020946	Irrigation	Yes	Permit	9/5/1995	76 NORWALK AVENUE	Ocean	Manchester Twp	102.10	43	Prop Loc - Hard Copy	522375	407371		60	15
	3200020946	Irrigation	Yes	Record	10/18/1995	76 NORWALK AVENUE	Ocean	Manchester Twp	102.10	43	Prop Loc - Hard Copy	522375	407371		70	20
	3200020851	Domestic	Yes	Permit	8/2/1995	MONROE AVE.	Ocean	Manchester Twp	99.48	1	Prop Loc - Hard Copy	525491	406059		100	16
	3200020851	Domestic	Yes	Record	4/18/1996	MONROE AVE.	Ocean	Manchester Twp	99.48	1	Prop Loc - Hard Copy	525491	406059		100	13
	3200020698	Domestic	Yes	Permit	5/9/1995	1701 TUCKERTON AVE.	Ocean	Manchester Twp	99.156	10	Prop Loc - Hard Copy	524479	406058		100	10
	3200020698	Domestic	Yes	Record	3/17/1997	1701 TUCKERTON AVE.	Ocean	Manchester Twp	99.156	10	Prop Loc - Hard Copy	524479	406058		105	10
	3200016891	Irrigation	Yes	Permit	4/26/1990	13A W. VIRGINIA AVE.	Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	518246	408783		80	20
	3200016891	Irrigation	Yes	Record	7/3/1990	13A W. VIRGINIA AVE.	Ocean	Manchester Twp	113	01	Prop Loc - Hard Copy	518246	408783		70	0
	3200021494	Irrigation	Yes	Permit	5/28/1996	28 WASHINGTON LANE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		80	16
	3200021494	Irrigation	Yes	Record	6/18/1996	28 WASHINGTON LANE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		87	26
	3200021493	Irrigation	Yes	Permit	5/28/1996	9A OKLAHOMA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522371	410103		80	16
	3200021493	Irrigation	Yes	Record	6/18/1996	9A OKLAHOMA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522371	410103		81	26
	3200021481	Irrigation Replacement	Yes	Permit	5/21/1996	14 HAWAII WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		100	15
	3200021481	Irrigation Replacement	Yes	Record	6/7/1996	14 HAWAII WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		71	20
	3200021472	Domestic	Yes	Permit	5/15/1996	NEW YORK AVE.	Ocean	Manchester Twp	99.131	1	Prop Loc - Hard Copy	524481	404642		100	16
	3200021472	Domestic	Yes	Record	9/24/1996	NEW YORK AVE.	Ocean	Manchester Twp	99.131	1	Prop Loc - Hard Copy	524481	404642		80	26
	3200021225	Domestic Replacement	Yes	Permit	1/12/1996	1947 TRENTON AVE.	Ocean	Manchester Twp	99.86	8	Prop Loc - Hard Copy	525493	404643		100	10
	3200021225	Domestic Replacement	Yes	Record	1/17/1996	1947 TRENTON AVE.	Ocean	Manchester Twp	99.86	8	Prop Loc - Hard Copy	525493	404643		90	10
	3200021641	Irrigation	Yes	Permit	7/22/1996	7A VIRGINIA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		85	25
	3200021641	Irrigation	Yes	Record	8/16/1996	7A VIRGINIA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521361	408786		83	25
	3200021596	Irrigation	Yes	Permit	7/3/1996	6B FLORIDA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		85	16
	3200021596	Irrigation	Yes	Record	7/29/1996	6B FLORIDA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		63	26
	3200022481	Irrigation	Yes	Permit	10/17/1997	3 OREGON DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522375	407371		80	16

	3200022481	Irrigation	Yes	Record	10/31/1997	3 OREGON DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	522375	407371		70	26
	3200022523	Irrigation	Yes	Record	11/13/1997	42B MICHIGAN AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519751	409459	1,523.79	65	26
	3200022411	Irrigation	Yes	Permit	9/10/1997	2 TEXAS BLVD.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520274	406053		80	20
	3200022411	Irrigation	Yes	Record	10/5/1997	2 TEXAS BLVD.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520274	406053		25	25
	3200022468	Irrigation	Yes	Permit	10/6/1997	1 ROOSEVELT CITY RD	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		80	20
	3200022468	Irrigation	Yes	Record	11/25/1997	1 ROOSEVELT CITY RD	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		80	15
	3200022457	Irrigation	Yes	Permit	9/29/1997	41 TEXAS BLVD.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	16
	3200022457	Irrigation	Yes	Record	10/21/1997	41 TEXAS BLVD.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		65	26
	3200022442	Irrigation	Yes	Permit	9/18/1997	42A MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		75	20
	3200022442	Irrigation	Yes	Record	10/3/1997	42A MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		67	15
	3200022316	Irrigation Replacement	Yes	Permit	7/29/1997	10 B KENTUCKY WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521361	408786		80	16
	3200022316	Irrigation Replacement	Yes	Record	8/15/1997	10 B KENTUCKY WAY	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521361	408786		75	26
	3200022294	Irrigation	Yes	Permit	7/16/1997	11A IDAHO DR	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	20
	3200022294	Irrigation	Yes	Record	8/12/1997	11A IDAHO DR	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		95	25
	3200022313	Irrigation	Yes	Permit	7/28/1997	2A KANSAS DR	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		75	15
	3200022313	Irrigation	Yes	Record	8/12/1997	2A KANSAS DR	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	519754	406760	4,044.34	71	15
	3200022290	Irrigation	Yes	Permit	7/15/1997	10B ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519260	407367		80	16
	3200022290	Irrigation	Yes	Record	7/31/1997	10B ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	518715	406759	3,953.39	65	0
	3200022311	Irrigation	Yes	Permit	7/28/1997	36 ROOSEVELT CITY RD	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	20
	3200022311	Irrigation	Yes	Record	8/14/1997	36 ROOSEVELT CITY RD	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	521831	406763	4,927.54	69	25
	3200022287	Irrigation	Yes	Permit	7/14/1997	60 CHERRY ST.	Ocean	Manchester Twp	107	2.01	Prop Loc - Hard Copy	523462	410104		100	30
	3200022287	Irrigation	Yes	Record	7/17/1997	60 CHERRY ST.	Ocean	Manchester Twp	107	2.01	Prop Loc - Hard Copy	523462	410104		65	26
	3200022284	Domestic Replacement	Yes	Permit	7/10/1997	46 CHERRY ST.	Ocean	Manchester Twp	107	17	Prop Loc - Hard Copy	523463	408789		80	16
	3200022284	Domestic Replacement	Yes	Record	7/11/1997	46 CHERRY ST.	Ocean	Manchester Twp	107	17	Prop Loc - Hard Copy	523463	408789		70	26

	3200022376	Irrigation	Yes	Permit	8/27/1997	45B MAINE AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	518246	408783		100	16
	3200022376	Irrigation	Yes	Record	9/18/1997	45B MAINE AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	518246	408783		65	26
	3200022404	Irrigation	Yes	Permit	9/10/1997	40B MAINE AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	518245	410098		100	16
	3200022404	Irrigation	Yes	Record	9/26/1997	40B MAINE AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	518245	410098		70	26
	3200022348	Irrigation	Yes	Permit	8/12/1997	39 B MARYLAND AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519260	407367		70	16
	3200022348	Irrigation	Yes	Record	9/10/1997	39 B MARYLAND AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519260	407367		75	26
	3200022359	Irrigation	Yes	Permit	8/18/1997	35 FRANKLIN LANE	Ocean	Manchester Twp	75	95	Prop Loc - Hard Copy	521366	404638		80	25
	3200022359	Irrigation	Yes	Record	9/19/1997	35 FRANKLIN LANE	Ocean	Manchester Twp	75	95	Prop Loc - Hard Copy	521366	404638		60	25
	3200022232	Irrigation	Yes	Permit	6/11/1997	8 KANSAS DR	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	521361	408786		80	15
	3200022232	Irrigation	Yes	Record	6/27/1997	8 KANSAS DR	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	519754	406760	4,044.34	88	12
	3200022231	Irrigation	Yes	Permit	6/11/1997	4A OHIO DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	15
	3200022231	Irrigation	Yes	Record	7/11/1997	4A OHIO DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		70	20
	3200022226	Irrigation	Yes	Permit	6/10/1997	9B VIRGINIA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519257	410099		80	16
	3200022226	Irrigation	Yes	Record	7/17/1997	9B VIRGINIA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519257	410099		70	26
	3200022225	Irrigation	Yes	Permit	6/10/1997	70 MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519257	410099		80	16
	3200022225	Irrigation	Yes	Record	7/9/1997	70 MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519257	410099		63	26
	3200022216	Irrigation	Yes	Permit	6/6/1997	15B ALASKA AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	518246	408783		80	16
	3200022216	Irrigation	Yes	Record	6/25/1997	15B ALASKA AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	518246	408783		63	26
	3200022170	Domestic Replacement	Yes	Permit	5/19/1997	1461 NEWARK AVE.	Ocean	Manchester Twp	99-197	9	Prop Loc - Hard Copy	521359	410101		100	10
	3200022170	Domestic Replacement	Yes	Record	5/19/1997	1461 NEWARK AVE.	Ocean	Manchester Twp	99-197	9	Prop Loc - Hard Copy	521359	410101		105	10
	3200022127	Irrigation	Yes	Permit	4/30/1997	5B VIRGINIA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	15
	3200022127	Irrigation	Yes	Record	5/12/1997	5B VIRGINIA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		78	20
	3200022124	Irrigation	Yes	Permit	4/29/1997	17B FLORIDA DR.	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		80	15
	3200022124	Irrigation	Yes	Record	5/15/1997	17B FLORIDA DR.	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		73	25

	3200022123	Irrigation	Yes	Permit	4/29/1997	8B FLORIDA COURT	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		80	15
	3200022123	Irrigation	Yes	Record	5/20/1997	8B FLORIDA COURT	Ocean	Manchester Twp	111	8	Prop Loc - Dig Image	521829	408112	3,929.7	76	20
	3200022123	Irrigation	Yes	Record	5/20/1997	8B FLORIDA COURT	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520269	410100		76	20
	3200022122	Irrigation	Yes	Permit	4/29/1997	53-B MAINE AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	15
	3200022122	Irrigation	Yes	Record	5/24/1997	53-B MAINE AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		78	20
	3200022121	Irrigation	Yes	Permit	4/29/1997	16-B S. CAROLINA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	15
	3200022121	Irrigation	Yes	Record	6/5/1997	16-B S. CAROLINA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		78	20
	3200022094	Domestic	Yes	Permit	4/2/1997	NEWARK & MONROE AVES	Ocean	Manchester Twp	99.64	6	Prop Loc - Hard Copy	524477	407373		100	10
	3200022094	Domestic	Yes	Record	4/1/1998	NEWARK & MONROE AVES	Ocean	Manchester Twp	99.64	6	Prop Loc - Hard Copy	524477	407373		100	22
	3200023080	Domestic	Yes	Permit	5/29/1998	BALTIMORE AVE.	Ocean	Manchester Twp	99.111	9	Prop Loc - Hard Copy	522375	407371		100	16
	3200023080	Domestic	Yes	Record	12/12/1998	BALTIMORE AVE.	Ocean	Manchester Twp	99.111	9	Prop Loc - Hard Copy	522375	407371		65	26
	3200023076	Domestic	Yes	Permit	5/27/1998	CAMDEN AVE.	Ocean	Manchester Twp	99.106	5	Prop Loc - Hard Copy	522375	407371		100	16
	3200023076	Domestic	Yes	Record	5/25/1999	CAMDEN AVE.	Ocean	Manchester Twp	99.106	5	Prop Loc - Hard Copy	522375	407371		90	26
	3200023064	Domestic	Yes	Permit	5/19/1998	1250 PERSHING AVE.	Ocean	Manchester Twp	99.252	1	Prop Loc - Hard Copy	525493	404643		80	15
	3200023064	Domestic	Yes	Record	7/30/1998	1250 PERSHING AVE.	Ocean	Manchester Twp	99.252	1	Prop Loc - Hard Copy	525493	404643		80	20
	3200023011	Irrigation	Yes	Permit	4/29/1998	9 OREGON DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		80	16
	3200023011	Irrigation	Yes	Record	6/2/1998	9 OREGON DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Dig Image	520792	406761	4,386.4	75	26
	3200023011	Irrigation	Yes	Record	6/2/1998	9 OREGON DRIVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		75	26
	3200022989	Irrigation	Yes	Permit	4/20/1998	1013 MINNESOTA AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		75	15
	3200022989	Irrigation	Yes	Record	7/10/1998	1013 MINNESOTA AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		74	15
	3200022965	Irrigation	Yes	Permit	4/6/1998	6A IOWA DR	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		75	15
	3200022965	Irrigation	Yes	Record	7/1/1998	6A IOWA DR	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		79	15
	3200022953	Irrigation	Yes	Permit	3/31/1998	11 MISSOURI DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		75	15
	3200022953	Irrigation	Yes	Record	7/1/1998	11 MISSOURI DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		79	15

	3200022929	Irrigation	Yes	Permit	3/25/1998	65 MARYLAND AVE.	Ocean	Manchester Twp	113	1.445	Prop Loc - Hard Copy	520269	410100		80	25
	3200022929	Irrigation	Yes	Record	7/9/1998	65 MARYLAND AVE.	Ocean	Manchester Twp	113	1.445	Prop Loc - Hard Copy	520269	410100		81	20
	3200022928	Irrigation	Yes	Permit	3/25/1998	22 SOUTH CAROLINA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		70	15
	3200022928	Irrigation	Yes	Record	6/30/1998	22 SOUTH CAROLINA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		81	20
	3200022903	Domestic	Yes	Permit	3/18/1998	NEW YORK AVE.	Ocean	Manchester Twp	99.83	7	Prop Loc - Hard Copy	522375	407371		80	16
	3200022903	Domestic	Yes	Record	8/8/1998	NEW YORK AVE.	Ocean	Manchester Twp	99.83	7	Prop Loc - Hard Copy	522375	407371		65	26
	3200023562	Domestic	Yes	Permit	12/14/1998	LINCOLN BLVD/COLLIDGE AVE	Ocean	Manchester Twp	99.78	1	Prop Loc - Hard Copy	523467	406057		100	16
	3200023562	Domestic	Yes	Record	5/14/1999	LINCOLN BLVD/COLLIDGE AVE	Ocean	Manchester Twp	99.78	1	Prop Loc - Hard Copy	523467	406057		70	26
	3200023455	Domestic	Yes	Permit	11/2/1998	BROOKLYN AVE	Ocean	Manchester Twp	99.135	4	Prop Loc - Hard Copy	522378	404639		120	12
	3200023455	Domestic	Yes	Record	6/5/1999	BROOKLYN AVE	Ocean	Manchester Twp	99.135	4	Prop Loc - Hard Copy	522378	404639		117	12
	3200023311	Domestic	Yes	Permit	8/18/1998	CHESTER AVE.	Ocean	Manchester Twp	99.173	8	Prop Loc - Hard Copy	522376	406055		100	16
	3200023311	Domestic	Yes	Record	12/23/1998	CHESTER AVE.	Ocean	Manchester Twp	99.173	8	Prop Loc - Hard Copy	522376	406055		70	26
	3200023302	Domestic	Yes	Permit	8/13/1998	NEW BRUNSWICK AVE.	Ocean	Manchester Twp	99.93	7	Prop Loc - Hard Copy	523467	406057		100	16
	3200023297	Irrigation	Yes	Permit	8/12/1998	37 MARYLAND DR.	Ocean	Manchester Twp	113	1.422	Prop Loc - Hard Copy	522370	411418		60	20
	3200023297	Irrigation	Yes	Record	9/30/1998	37 MARYLAND DR.	Ocean	Manchester Twp	113	1.422	Prop Loc - Hard Copy	522370	411418		66	20
	3200023162	Irrigation	Yes	Permit	7/14/1998	8-A ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	25
	3200023162	Irrigation	Yes	Record	9/13/1998	8-A ALASKA AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		79	15
	3200023089	Irrigation	Yes	Permit	6/2/1998	2-B FLORIDA CT.	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		75	15
	3200023089	Irrigation	Yes	Record	10/1/1998	2-B FLORIDA CT.	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	520271	408785		88	15
	3200023022	Irrigation	Yes	Permit	6/2/1998	6 WASHINGTON LA.	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	522373	408787		80	16
	3200023022	Irrigation	Yes	Record	6/29/1998	6 WASHINGTON LA.	Ocean	Manchester Twp	111	8	Prop Loc - Hard Copy	522373	408787		95	26
	3200023791	Irrigation	Yes	Permit	3/23/1999	7 ARIZONA AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		75	15
	3200023791	Irrigation	Yes	Record	6/11/1999	7 ARIZONA AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		79	15
	3200023643	Domestic	Yes	Permit	1/22/1999	BAYONNE AVE.	Ocean	Manchester Twp	99.58	2	Prop Loc - Hard Copy	525490	407375		100	16

	3200023643	Domestic	Yes	Record	1/10/2000	BAYONNE AVE.	Ocean	Manchester Twp	99.58	2	Prop Loc - Hard Copy	525490	407375		70	26
	3200023928	Irrigation	Yes	Permit	5/26/1999	12B W. VIRGINIA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		75	15
	3200023928	Irrigation	Yes	Record	6/25/1999	12B W. VIRGINIA DR.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520272	407368		80	15
	3200023905	Domestic Replacement	Yes	Permit	5/17/1999	1301 HARRISON AVE.	Ocean	Manchester Twp	99-132	26	Prop Loc - Hard Copy	523468	404640		100	25
	3200023905	Domestic Replacement	Yes	Record	5/17/1999	1301 HARRISON AVE.	Ocean	Manchester Twp	99-132	26	Prop Loc - Hard Copy	523468	404640		101	25
	3200023896	Domestic Replacement	Yes	Permit	5/13/1999	1960 ELIZABETH AVENUE	Ocean	Manchester Twp	99.91	2	Prop Loc - Hard Copy	525491	406059		100	20
	3200023896	Domestic Replacement	Yes	Record	5/14/1999	1960 ELIZABETH AVENUE	Ocean	Manchester Twp	99.91	2	Prop Loc - Hard Copy	525491	406059		104	12
	3200023854	Domestic	Yes	Permit	4/27/1999	BROOKLYN AVE	Ocean	Manchester Twp	99.104	3	Prop Loc - Hard Copy	522371	410103		100	16
	3200023854	Domestic	Yes	Record	9/20/1999	BROOKLYN AVE	Ocean	Manchester Twp	99.104	3	Prop Loc - Hard Copy	522371	410103		70	26
	3200023848	Irrigation	Yes	Permit	4/26/1999	38A CRESTWOOD COURT	Ocean	Manchester Twp	90	10.147	Prop Loc - Hard Copy	525488	408791		80	20
	3200023848	Irrigation	Yes	Record	5/21/1999	38A CRESTWOOD COURT	Ocean	Manchester Twp	90	10.147	Prop Loc - Hard Copy	525488	408791		60	25
	3200023840	Irrigation	Yes	Permit	4/19/1999	13 NEW YORK AVE.	Ocean	Manchester Twp	111	8.177	Prop Loc - Hard Copy	520271	408785		80	20
	3200023840	Irrigation	Yes	Record	5/28/1999	13 NEW YORK AVE.	Ocean	Manchester Twp	111	8.177	Prop Loc - Hard Copy	520271	408785		80	20
	3200023839	Irrigation	Yes	Permit	4/19/1999	14 KANSAS DR.	Ocean	Manchester Twp	111	8.113	Prop Loc - Hard Copy	520271	408785		80	20
	3200023839	Irrigation	Yes	Record	5/27/1999	14 KANSAS DR.	Ocean	Manchester Twp	111	8.113	Prop Loc - Hard Copy	520271	408785		80	20
	3200023824	Domestic	Yes	Permit	4/13/1999	PHILADELPHIA AVE.	Ocean	Manchester Twp	99.83	4	Prop Loc - Hard Copy	521364	406054		100	16
	3200023824	Domestic	Yes	Record	2/3/2000	PHILADELPHIA AVE.	Ocean	Manchester Twp	99.83	4	Prop Loc - Hard Copy	521364	406054		75	26
	3200023785	Domestic Replacement	Yes	Permit	3/19/1999	2000 TRENTON AVE.	Ocean	Manchester Twp	99.65	3	Prop Loc - Hard Copy	525493	404643		100	10
	3200023785	Domestic Replacement	Yes	Record	3/22/1999	2000 TRENTON AVE.	Ocean	Manchester Twp	99.65	3	Prop Loc - Hard Copy	525493	404643		140	10
	3200023781	Irrigation	Yes	Permit	3/16/1999	9B ARIZONA AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		75	15
	3200023781	Irrigation	Yes	Record	6/4/1999	9B ARIZONA AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		80	15
	3200023768	Irrigation	Yes	Permit	3/10/1999	21B MICHIGAN AVE.	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519257	410099		60	12
	3200023748	Domestic Replacement	Yes	Permit	3/2/1999	2000 TRENTON AVE	Ocean	Manchester Twp	99.65	3	Prop Loc - Hard Copy	525493	404643		100	10
	3200023748	Domestic Replacement	Yes	Record	3/3/1999	2000 TRENTON AVE	Ocean	Manchester Twp	99.65	3	Prop Loc - Hard Copy	525493	404643		90	10

	3200023676	Domestic Replacement	Yes	Permit	2/4/1999	107 CHERRY ST	Ocean	Manchester Twp	85.20	10	Prop Loc - Hard Copy	525484	411422		100	20
	3200023676	Domestic Replacement	Yes	Record	2/4/1999	107 CHERRY ST	Ocean	Manchester Twp	85.20	10	Prop Loc - Hard Copy	525484	411422		117	20
	3200023683	Domestic	Yes	Permit	2/9/1999	NEW BRUNSWICK AVE	Ocean	Manchester Twp	99.92	7	Prop Loc - Hard Copy	523467	406057		100	16
	3200023683	Domestic	Yes	Record	2/3/1999	NEW BRUNSWICK AVE	Ocean	Manchester Twp	99.92	7	Prop Loc - Hard Copy	523467	406057		65	26
	3200023937	Domestic Replacement	Yes	Permit	6/3/1999	300 CHERRY ST.	Ocean	Manchester Twp	85.08	1	Prop Loc - Hard Copy	525484	411422		100	20
	3200023937	Domestic Replacement	Yes	Record	6/4/1999	300 CHERRY ST.	Ocean	Manchester Twp	85.08	1	Prop Loc - Hard Copy	525484	411422		100	25
	3200024088	Domestic Replacement	Yes	Permit	8/2/1999	801 MONROE AVENUE	Ocean	Manchester Twp	99.49	2	Prop Loc - Hard Copy	523463	408789		120	10
	3200024088	Domestic Replacement	Yes	Record	8/10/1999	801 MONROE AVENUE	Ocean	Manchester Twp	99.49	2	Prop Loc - Hard Copy	523463	408789		105	20
	3200024075	Public Non-Community Replacement	Yes	Permit	7/27/1999	180 RT. 539	Ocean	Manchester Twp	111	12	Prop Loc - Hard Copy	522370	411418		100	25
	3200024075	Public Non-Community Replacement	Yes	Record	7/29/1999	180 RT. 539	Ocean	Manchester Twp	111	12	Prop Loc - Hard Copy	522370	411418		125	25
	3200024160	Irrigation	Yes	Permit	9/8/1999	30-B MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		75	15
	3200024160	Irrigation	Yes	Record	10/21/1999	30-B MAINE AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520269	410100		68	15
	3200024159	Irrigation	Yes	Permit	9/8/1999	1 FALMOUTH AVE	Ocean	Manchester Twp	10224	2	Prop Loc - Hard Copy	524475	408790		75	15
	3200024159	Irrigation	Yes	Record	9/20/1999	1 FALMOUTH AVE	Ocean	Manchester Twp	10224	2	Prop Loc - Hard Copy	524475	408790		77	25
	3200024259	Domestic	Yes	Permit	10/28/1999	1821 TRENTON AVENUE	Ocean	Manchester Twp	99.106	7	Prop Loc - Hard Copy	523463	408789		100	10
	3200024259	Domestic	Yes	Record	5/26/2000	1821 TRENTON AVENUE	Ocean	Manchester Twp	99.106	7	Prop Loc - Hard Copy	523463	408789		100	12
	3200024112	Domestic	Yes	Permit	8/11/1999	PERTH AMBOY AVE.	Ocean	Manchester Twp	99.92	4	Prop Loc - Hard Copy	522378	404639		120	12
	3200024112	Domestic	Yes	Record	4/5/2000	PERTH AMBOY AVE.	Ocean	Manchester Twp	99.92	4	Prop Loc - Hard Copy	522378	404639		125	22
	3200024007	Irrigation	Yes	Permit	6/22/1999	10-A ROOSEVELT CITY RD.	Ocean	Manchester Twp	113	1.078	Prop Loc - Hard Copy	520269	410100		80	16
	3200023999	Irrigation	Yes	Permit	6/21/1999	5 INDIANA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		75	15
	3200023999	Irrigation	Yes	Record	7/29/1999	5 INDIANA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	521359	410101		75	15
	3200024683	Domestic	Yes	Permit	6/13/2000	1940 CAMDEN AVE	Ocean	Manchester Twp	99.86	3	Prop Loc - Hard Copy	523463	408789		120	20
	3200024683	Domestic	Yes	Record	9/3/2000	1940 CAMDEN AVE	Ocean	Manchester Twp	99.86	3	Prop Loc - Hard Copy	523463	408789		110	25
	3200024454	Domestic	Yes	Permit	3/1/2000	2080 PERTH AMBOY AVE.	Ocean	Manchester Twp	99.51	1	Prop Loc - Hard Copy	524477	407373		50	10

	3200024454	Domestic	Yes	Record	3/15/2000	2080 PERTH AMBOY AVE.	Ocean	Manchester Twp	99.51	1	Prop Loc - Hard Copy	524477	407373		120	10
	3200025245	Domestic Replacement	Yes	Permit	9/25/2000	1880 BROOKLYN AVE	Ocean	Manchester Twp	99.104	1	Prop Loc - Hard Copy	525493	404643		100	10
	3200025245	Domestic Replacement	Yes	Record	9/27/2000	1880 BROOKLYN AVE	Ocean	Manchester Twp	99.104	1	Prop Loc - Hard Copy	525493	404643		122	10
	3200025206	Domestic Replacement	Yes	Permit	9/5/2000	1361 TRENTON AVE.	Ocean	Manchester Twp	99.230	9	Prop Loc - Hard Copy	523463	408789		100	20
	3200025206	Domestic Replacement	Yes	Record	9/5/2000	1361 TRENTON AVE.	Ocean	Manchester Twp	99.230	9	Prop Loc - Hard Copy	523463	408789		105	20
	3200025159	Domestic Replacement	Yes	Permit	8/15/2000	1620 PENNSYLVANIA AVENUE	Ocean	Manchester Twp	99.156	4	Prop Loc - Hard Copy	523465	407372		120	20
	3200025159	Domestic Replacement	Yes	Record	9/15/2000	1620 PENNSYLVANIA AVENUE	Ocean	Manchester Twp	99.156	4	Prop Loc - Hard Copy	523465	407372		100	20
	3200025155	Irrigation	Yes	Permit	8/10/2000	9A INDIANA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		100	20
	3200025155	Irrigation	Yes	Record	11/7/2000	9A INDIANA WAY	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	520271	408785		80	25
	3200026181	Non-Public	Yes	Permit	3/18/2002	ROUTE 70	Ocean	Manchester Twp	113	9	Prop Loc - Hard Copy	519257	410099		120	10
	3200026181	Non-Public	Yes	Record	5/7/2002	ROUTE 70	Ocean	Manchester Twp	113	9	Prop Loc - Hard Copy	519257	410099		95	22
	3200026075	Domestic	Yes	Permit	1/18/2002	TRENTON AVE	Ocean	Manchester Twp	99.66	6	Prop Loc - Hard Copy	525493	404643		100	20
	3200026075	Domestic	Yes	Record	5/7/2003	TRENTON AVE	Ocean	Manchester Twp	99.66	6	Prop Loc - Hard Copy	525493	404643		109	10
	3200026059	Domestic	Yes	Permit	1/14/2002	200 NEW YORK AVE.	Ocean	Manchester Twp	99.68	2	Prop Loc - Hard Copy	524477	407373		100	10
	3200026059	Domestic	Yes	Record	10/4/2002	200 NEW YORK AVE.	Ocean	Manchester Twp	99.68	2	Prop Loc - Hard Copy	524477	407373		95	20
	3200026241	Irrigation	Yes	Permit	4/15/2002	18 ARDMORE ST	Ocean	Manchester Twp	75-124	45	Prop Loc - Hard Copy	522375	407371		100	20
	3200026777	Domestic	Yes	Permit	11/27/2002	1881 PATERSON AVE	Ocean	Manchester Twp	99.103	10	Prop Loc - Hard Copy	524475	408790		120	20
	3200026777	Domestic	Yes	Record	5/14/2003	1881 PATERSON AVE	Ocean	Manchester Twp	99.103	10	Prop Loc - Hard Copy	524475	408790		120	20
	3200026743	Non-Public	Yes	Permit	11/13/2002	11 BLEAKER ST	Ocean	Manchester Twp	99-18	5	Prop Loc - Hard Copy	523463	408789		100	20
	3200026743	Non-Public	Yes	Record	11/18/2002	11 BLEAKER ST	Ocean	Manchester Twp	99-18	5	Prop Loc - Hard Copy	523463	408789		135	10
	3200026699	Domestic	Yes	Permit	10/16/2002	RT 70	Ocean	Manchester Twp	79	41	Prop Loc - Hard Copy	519254	412831		150	20
	3200026699	Domestic	Yes	Record	11/7/2003	RT 70	Ocean	Manchester Twp	79	41	Prop Loc - Hard Copy	519254	412831		92	20
	3200026676	Domestic Replacement	Yes	Permit	9/24/2002	202 MANCHESTER BLVD.	Ocean	Manchester Twp	85.02	6	Prop Loc - Hard Copy	525486	410107		100	10

	3200026676	Domestic Replacement	Yes	Record	9/24/2002	202 MANCHESTER BLVD.	Ocean	Manchester Twp	85.02	6	Prop Loc - Hard Copy	525486	410107		90	20
	3200026617	Domestic Replacement	Yes	Permit	9/5/2002	1881 PERTH AMBOY AVE	Ocean	Manchester Twp	99.101	10	Prop Loc - Hard Copy	525491	406059		100	10
	3200026617	Domestic Replacement	Yes	Record	9/17/2002	1881 PERTH AMBOY AVE	Ocean	Manchester Twp	99.101	10	Prop Loc - Hard Copy	525491	406059		149	10
	3200026618	Domestic	Yes	Permit	9/6/2002	59 ROOSEVELT CITY RD	Ocean	Manchester Twp	111	10.02	Prop Loc - Hard Copy	520271	408785		100	10
	3200026618	Domestic	Yes	Record	12/23/2002	59 ROOSEVELT CITY RD	Ocean	Manchester Twp	111	10.02	Prop Loc - Hard Copy	520271	408785		100	22
	3200026432	Irrigation	Yes	Permit	6/28/2002	62 CHERRY ST	Ocean	Manchester Twp	107	2.01	Prop Loc - Hard Copy	523463	408789		100	25
	3200026432	Irrigation	Yes	Record	7/24/2002	62 CHERRY ST	Ocean	Manchester Twp	107	2.01	Prop Loc - Hard Copy	523463	408789		120	45
	3200026402	Irrigation	Yes	Permit	6/11/2002	15 MICHIGAN AVE	Ocean	Manchester Twp	113	1.464	Prop Loc - Hard Copy	522370	411418		120	20
	3200026402	Irrigation	Yes	Record	7/17/2002	15 MICHIGAN AVE	Ocean	Manchester Twp	113	1.464	Prop Loc - Hard Copy	522370	411418		72	12
	3200026401	Irrigation	Yes	Permit	6/11/2002	8A VIRGINIA DR	Ocean	Manchester Twp	113	1.889	Prop Loc - Hard Copy	522370	411418		120	20
	3200026401	Irrigation	Yes	Record	7/18/2002	8A VIRGINIA DR	Ocean	Manchester Twp	113	1.889	Prop Loc - Hard Copy	522370	411418		68	12
	3200026844	Domestic Replacement	Yes	Permit	1/24/2003	1461 TRENTON AVE	Ocean	Manchester Twp	99.199	9	Prop Loc - Hard Copy	525493	404643		100	10
	3200026844	Domestic Replacement	Yes	Record	1/20/2003	1461 TRENTON AVE	Ocean	Manchester Twp	99.199	9	Prop Loc - Hard Copy	525493	404643		122	10
	3200026254	Irrigation	Yes	Permit	4/19/2002	10A WYOMING AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519257	410099		80	20
	3200026254	Irrigation	Yes	Record	6/5/2002	10A WYOMING AVE	Ocean	Manchester Twp	113	1	Prop Loc - Hard Copy	519257	410099		70	20
	3200025928	Domestic Replacement	Yes	Permit	10/9/2001	MANCHESTER BLVD	Ocean	Manchester Twp	85.01	4,12,22	Prop Loc - Hard Copy	525486	410107		100	10
	3200025928	Domestic Replacement	Yes	Record	10/10/2001	MANCHESTER BLVD	Ocean	Manchester Twp	85.01	4,12,22	Prop Loc - Hard Copy	525486	410107		120	20
	3200025885	Irrigation	Yes	Permit	9/19/2001	14 ARDMORE ST	Ocean	Manchester Twp	75.124	48	Prop Loc - Hard Copy	522375	407371		100	20
	3200025885	Irrigation	Yes	Record	10/30/2001	14 ARDMORE ST	Ocean	Manchester Twp	75.124	48	Prop Loc - Hard Copy	522375	407371		75	10
	3200027197	Domestic Replacement	Yes	Permit	8/7/2003	512 RT. 539	Ocean	Manchester Twp	116	25	Prop Loc - Hard Copy	521904	410709		100	10
	3200027197	Domestic Replacement	Yes	Record	8/8/2003	512 RT. 539	Ocean	Manchester Twp	116	25	Prop Loc - Hard Copy	521904	410709		100	12
	3200027169	Domestic Replacement	Yes	Permit	7/25/2003	1280 NEWARK AVE.	Ocean	Manchester Twp	99.249	1	Prop Loc - Hard Copy	525022	407981		100	10
	3200027169	Domestic Replacement	Yes	Record	7/29/2003	1280 NEWARK AVE.	Ocean	Manchester Twp	99.249	1	Prop Loc - Hard Copy	525022	407981		90	10
	3200027126	Domestic Replacement	Yes	Permit	7/8/2003	1960 LAKE RD	Ocean	Manchester Twp	99.95	2	Prop Loc - Hard Copy	524007	409396		120	10

	3200027126	Domestic Replacement	Yes	Record	7/9/2003	1960 LAKE RD	Ocean	Manchester Twp	99.95	2	Prop Loc - Hard Copy	524007	409396		110	12
	3200027020	Domestic Replacement	Yes	Permit	4/24/2003	2020 PERTH AMBOY AVE	Ocean	Manchester Twp	99.60	2	Prop Loc - Hard Copy	525022	407981		100	10
	3200027020	Domestic Replacement	Yes	Record	4/24/2003	2020 PERTH AMBOY AVE	Ocean	Manchester Twp	99.60	2	Prop Loc - Hard Copy	525022	407981		136	10
	5200022441	Non-Public	Yes	Permit	9/18/1997	BUILDING #9668	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	517157	407365		0	20
	5200022441	Non-Public	Yes	Record	9/24/1997	BUILDING #9668	Ocean	Manchester Twp	N/A	N/A	Prop Loc - Hard Copy	517157	407365			20
	3200008882	Irrigation	Yes	Permit	2/1/1983		Ocean	Manchester Twp	3859	1	Prop Loc - Hard Copy	524011	406665		80	60
REDACTED	3200000826	Public Community	Yes	Permit	4/18/1972	REDACTED	Ocean	Manchester Twp		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	175	700
REDACTED	3200000629	Public Community	Yes	Permit	10/27/1969	REDACTED	Ocean	Manchester Twp		REDACTED	Prop Loc - Hard Copy	0	0	REDACTED	180	700

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E201711484

WELL RECORD

PROPERTY OWNER: MANCHESTER TOWNSHIP MANCHESTER TOWNSHIP

Company/Organization: Public Works

Address: 1360 Hwy 70 Manchester Twp, New Jersey 08759

WELL LOCATION: Manchester Public Works

Address: 1360 Highway 70

County: Ocean Municipality: Manchester Twp Lot: 9 Block: 113

Easting (X): 519808 Northing (Y): 409484
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: October 13, 2017

DATE WELL COMPLETED: October 13, 2017

WELL USE: IRRIGATION

Other Use(s):

Local ID: Irrigation Well 1

WELL CONSTRUCTION

Total Depth Drilled (ft.): 70 Finished Well Depth (ft.): 70 Well Surface: 1 ft. Above Grade

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	70	8		
Casing	0	60	4	PVC	#40
Screen	60	70	4	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	58	8	4	300	0	180
Gravel Pack	58	70	8	4	#1 gritt		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Mud Rotary

RECORD OF TEST
Test Date: October 13, 2017
Pump Equipment: air
Well Yield: 20 gpm
Static Water Level: 20 ft. below land surface
Pumping Water Level: 25 ft. below land surface

ATTACHMENTS

PUMPING EQUIPMENT
Installed: Installed by Others
Installer's Name: ,
Pump Type:
Depth to Pump: _ ft. below land surface
Pump Capacity: _ gpm
Total Design Head: _ ft.
Pump Horsepower: _ hp
If pump tested Discharge Rate: _ gpm
Duration of Test: _ hours

GEOLOGIC LOG
0 - 15: yellow SC - Clayey sands, sand-clay mixtures
15 - 24: yellow SW - Well-graded sands and gravelly sands, little or no fines
24 - 27: yellow SC - Clayey sands, sand-clay mixtures
27 - 46: yellow CL - Inorganic clays of low to medium plasticity, gravelly/sandy/silty/lean clays
46 - 58: yellow SC - Clayey sands, sand-clay mixtures
58 - 70: yellow SW - Well-graded sands and gravelly sands, little or no fines

ADDITIONAL INFORMATION:

Driller of Record: Raymond L Smith, MASTER LICENSE # 545435 Company: RAYMOND SMITH III

Annual Drinking Water Quality Report

2021 (2020 Data)

Manchester Township Water Utility—Western Service Area

PWSID# NJ1518004

MANCHESTER TOWNSHIP
OCEAN COUNTY, NEW JERSEY

Manchester Township Water Utility's goal is to provide you with water that meets or surpasses all the standards for safe drinking water. The Western Service Area (NJ1518004) delivers water to the Whiting section of the Township lying southeast of Manchester Boulevard, northwest of Lake Road and along Station Road. Water is also sold to the Lacey Road water system (NJ1518011).

These health and safety standards are set by the United States Environmental Protection Agency (EPA) and the New Jersey Department of Environmental Protection (NJDEP). We're at work 24 hours a day, 365 days a year to provide you and your family with top quality water. We regularly test water samples to be sure that your water meets the safety standards. All the test results are on file with the NJDEP, the agency that monitors and regulates drinking water quality in our state. Both the EPA and the NJDEP require water suppliers to send a Consumer Confidence Report (CCR) to customers on an annual basis.

This CCR provides important information about your drinking water. It shows how your drinking water measured up to government standards during 2019. Please read it carefully and feel free to call the Manchester Township Water Utility at 732-657-8121 or the EPA Safe Drinking Water Hotline at 800.426.4791 with any questions. If you have specific questions about water as it relates to your personal health we suggest that you contact your health care provider.

Where does your water come from?

Manchester Township Water Utility-Western, herein after "Western" obtains our water from seven active wells drilled between 90 and 1225 feet into two underground sources of water called the Cohansey and the Potomac-Raritan-Magothy (PRM) Aquifers. The Township controls the property around these wells and restricts any activity that could contaminate them. All of our water is treated at one of five treatment facilities located at or near the wells.

The treatment facilities include treatment for iron removal, corrosion control, and disinfection.

To comply with state and federal regulations, Manchester Township Water Utility-Western issues an annual Consumer Confidence Report describing the quality of the drinking water supplied to Lacey Road customers.

If you have any questions about the drinking water that Western supplies, please call 732-657-8121. The water quality report for Western can be found at **http://www.manchestertwp.com/departments/public-works-and-utilities/**

Contact Information

Please contact Manchester Township Water Utility at 732-657-8121 regarding the content of this report. We encourage public participation at our regular meeting which is held every second and fourth Monday of each month at 6:00pm. Meetings are located at the Municipal Building, 1 Colonial Drive, Manchester, NJ.

Lead Notice

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Manchester Water Utility is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water is available from the Safe Drinking Water Hotline or at

http://www.epa.gov/safewater/lead.

People with Special Health Concerns

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemo-therapy, persons who have undergone organ transplants, people with HIV / AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA / CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Waived Requirements

The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos, volatile organic chemicals, and synthetic organic chemicals. Our system has been granted a waiver for synthetic organic chemicals.

MANCHESTER TOWNSHIP
OCEAN COUNTY, NEW JERSEY

How do drinking water sources become polluted?

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the **EPA's Safe Drinking Water Hotline (800-426-4791)**.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

Source Water Assessments

The NJDEP has completed and issued the Source Water Assessment Report and Summary for this public water system, which is available at **http://www.state.nj.us/dep/swap** or by contacting the NJDEP's Bureau of Safe Drinking Water at **609-292-5550**.

The source water assessment table for Western is provided below. The table provides the number of wells that have either a high (H), medium (M), or low (L) susceptibility rating for each of eight contaminant categories.

If a water system is rated highly susceptible for a contaminant category, it does not mean a customer is or will be consuming contaminated drinking water. The rating reflects the potential for contamination of source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels. As a result of the assessments, the DEP may change existing monitoring schedules based upon susceptibility ratings.

Pathogens: Disease-causing organisms such as bacteria and viruses. Common sources are animal and human fecal wastes.

Nutrients: Compounds, minerals and elements (both naturally occurring and man-made) that aid plant growth. Examples include nitrogen and phosphorus.

Pesticides: Man-made chemicals used to control pests, weeds and fungus. Common sources include land application and manufacturing of pesticides. Examples include herbicides such as atrazine, and insecticides such as chlorodane.

Radionuclides: Radioactive substances that are both naturally occurring and man-made. Examples include radium and uranium.

Volatile Organic Compounds: Man-made chemicals used as solvents, degreasers, and gasoline components. Examples include benzene, methyl tertiary butyl ether (MTBE), and vinyl chloride.

Inorganics: Mineral-based compounds that are both naturally occurring and man-made. Examples include arsenic, asbestos, copper, lead, and nitrate.

Radon: Colorless, odorless, cancer-causing gas that occurs naturally in the environment. For more information go to http://www.nj.gov/dep/rpp/radon/index.htm or call 800-648-0394.

Disinfection Byproduct Precursors: A common source is naturally occurring organic matter in surface water. Dis-infection byproducts are formed when the disinfectants used to kill pathogens (usually chlorine) react with dissolved organic material (leaves, etc.) in surface water.

	Pathogens			Nutrients			Pesticides			Volatile-Organic Compounds			Inorganics			Radio nuclides			Radon			Disinfection Byproduct Precursors		
Sources	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
7 Wells	0	2	5	7	0	0	0	0	7	7	0	0	6	1	0	7	0	0	0	5	2	0	7	0

2020 Water Quality Results					
Radioactive Contaminants	**MCLG**	**MCL**	**Level Detected**	**Violation**	**Likely Source**
Combined Radium - 228 & 226 Test Results Year 2020	0 pCi/L	5 pCi/L	Range: 1.1-3.8 Highest: 3.8	N	Erosion of natural deposits
Radium-226 Test Results Year 2020	0 pCi/L	5 pCi/L	Range: 0-1.58 Highest: 1.58 LRAA	N	Erosion of natural deposits
Radium-228 Test Results Year 2020	0 pCi/L	5 pCi/L	Range: 1.1-2.2 Highest: 2.2	N	Erosion of natural deposits
Gross Alpha Emitters Test Results Year 2020	0 pCi/L	15 pCi/L	Range: 3.6-11.5 Highest: 11.5	N	Erosion of natural deposits
Inorganic Chemicals	**MCLG**	**MCL**	**Level Detected**	**Violation**	**Likely Source**
Nickel Test Results Year 2020	10 ppm	10 ppm	Range: ND-0.0022 Highest: 0.0022	N	Runoff from fertilizer, leaching from septic tanks, sewage, and erosion of natural deposits
Nitrate (as Nitrogen) Test Results Year 2020	10 ppm	10 ppm	Range: ND-1.32 Highest: 1.32	N	Corrosion of household plumbing systems and erosion of natural deposits
Fluoride Test Results Year 2020	4 ppm	4 ppm	Range: ND Highest: ND	N	Erosion of natural deposits
Copper & Lead	**MCLG**	**AL**	**Level Detected**	**Violation**	**Likely Source**
Copper Test Results Year 2018	1.3 ppm	1.3 ppm	90th Percentile: 0 Samples > AL: 0	N	Corrosion of household plumbing systems and erosion of natural deposits
Lead Test Results Year 2018	0 ppb	15 ppb	90th Percentile: 4 Samples > AL: 1	N	Corrosion of household plumbing systems and erosion of natural deposits
Regulated Disinfectants	**MRDLG**	**MRDL**	**Level Detected**	**Violation**	**Likely Source**
Chlorine Test Results Year 2020	4.0 ppm	4.0 ppm	Range: 0.6-1.0 Average: 0.92	**Y**	Treatment process
Volatile Organic Compounds / Disinfection By-products	**MCLG**	**MCL**	**Level Detected**	**Violation**	**Likely Source**
HAA5 Haloaecetic Acids Test Results Year 2020	n/a	60 ppb	Range: ND-1.1 Highest: 0.275 LRAA	N	Byproduct of drinking water disinfection
TTHM Total Trihalomethanes Test Results Year 2020	n/a	80 ppb	Range: 1-13 Highest: 8.225 LRAA	N	Byproduct of drinking water disinfection
Methyl Tertiary-Butyl Ether (MTBE) Test Results Year 2020	70 ppb	70 ppb	Range: 0-3 Highest: 3	N	Byproduct of drinking water disinfection
Secondary Contaminants		**RUL**	**Level Found**	**Violation**	**Likely Source**
Iron [+] Test Results Year 2020		0.3 ppm	Range: ND-0.824 Highest: 0.824	Y*	Erosion of natural deposits
Manganese Test Results Year 2020		0.05 ppm	Range: ND-0.02 Highest: 0.02	N	Erosion of natural deposits
Chloride Test Results Year 2020		250 ppm	Range: ND-35 Highest: 35	N	Erosion of natural deposits
Sodium Test Results Year 2020		50 ppm	Range: 4.68-17.7 Highest: 17.7	N	Naturally present in the environment
pH Test Results Year 2020		6.5-8.5 Units	Range: 7.48-8.95 Highest: 8.95	N	Naturally present in the environment
Sulfate Test Results Year 2020		250 ppm	Range: ND-9.85 Highest: 9.85	N	Erosion from natural deposits; Industrial wastes
Hardness, Carbonate Test Results Year 2020		250 ppm	Range: 46.4-63.1 Highest: 63.1	N	Naturally present in the environment
Total Dissolved Solids (TDS) Test Results Year 2020		500 ppm	Range: 110-146 Highest: 146	N	Erosion from natural deposits

2020 Water Quality Results

Secondary Contaminants	RUL	Level Found	Violation	Likely Source
Aluminum Test Year 2020	0.2 ppm	Range: ND-0.31 Highest: 0.31	N	Erosion of natural deposits
Color Test Results Year 2020	10 CU	Range: ND Highest: ND	N	Naturally present in the environment

[+] The recommended upper limit for iron is based on unpleasant taste of the water and staining of laundry. Iron is an essential nutrient, but some people who drink water with iron levels well above the recommended upper limit could develop deposits of iron in a number of organs of the body.

[++] The recommended upper limit for manganese is based on staining of laundry. manganese is an essential nutrient, and toxicity is not expected from high levels which would not be encountered in drinking water.

* Note on Recommended Upper Limit Exceedances: Secondary standards are non-mandatory guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health.

Microbiologicals-Revised Total Coliform Rule (RTCR)	Number Required	Number Completed	Corrective Actions Required	Corrective Actions Completed
Level 1 Assessment - Total Coliform	0	0	0	0

Total coliform bacteria are generally not harmful themselves. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present.

Unregulated Substances for which the EPA requires monitoring	Reference Concentration	Level Detected	Violation	
Bromide Test Results Year 2018	N/A	Range: ND-36 ppb Highest: 36 ppb	N	
HAA6Br Test Results Year 2018	N/A	Range: 0.361-0.825 ppb Highest: 0.825 ppb	N	
HAA9 Test Results Year 2018	N/A	Range: 0.654-1.348 ppb Highest: 1.348 ppb	N	
Chlorate Test Results Year 2014	210 ppb	Range: 27-1700 Highest: 1700	N	
Chlorodifluoromethane Test Results Year 2014	N/A	Range: ND-110 ppb Highest: 110 ppb	N	
Chromium Test Results Year 2014	100 ppb	Range: ND-0.35 Highest: 0.35	N	
Cobalt Test Results Year 2014	70 ppb	Range: ND-1.7 Highest: 1.7	N	
Hexavalent Cromium (dissolved) Test Results Year 2014	N/A	Range: 0.054-0.16 ppb Highest: 0.16 ppb	N	
Strontium Test Results Year 2014	1500 ppb	Range: ND-560 Highest: 560	N	
Vanadium Test Results Year 2014	21 ppb	Range: ND-0.28 Highest: 0.28	N	

Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA and DEP in determining the occurrence of unregulated contaminants in drinking water and whether regulation is warranted.

Additional information about unregulated contaminants can be found at the following link, courtesy of the EPA: https://www.epa.gov/sites/production/files/ 2015-10/documents/ucmr3_factsheet_general.pdf and https://www.epa.gov/sites/production/files/2017-03/documents/ucmr4-fact-sheet-general.pdf

Definitions

ppm **Parts Per Million**: equivalent of one second in 12 days

ppb **Parts Per Billion**: equivalent of one second in 32 years

ppt **Parts Per Trillion:** equivalent of one second in 32,000 years

NA **Not Applicable**

RUL **Recommended Upper Limit**

ND **Not Detected**

RAA **Running Annual Average**

LRAA **Locational Running Annual Average**

TT **Treatment Technique**: A required process intended to reduce the level of a contaminant in drinking water.

MCL **Maximum Contaminant Level**: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG **Maximum Contaminant Level Goal**: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

AL **Action Level** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

CU **Color Unit**

pCi/L **Picocuries Per Liter**: equivalent of one second in 32 million years

MRDL **Maximum Residual Disinfection Level** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG **Maximum Residual Disinfection Level Goal** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefit of the use of disinfectants to control microbial contamination.

Primary Standards: Federal drinking water regulations for substances that are health-related. Water suppliers must meet all primary drinking water standards.

Secondary Standards: Federal drinking water measurements for substances that do not have an impact on health. These reflect aesthetic qualities such as taste, odor and appearance. Secondary standards are recommenda-

PWSID:	NJ1518328	Water System Type:	Nontransient noncommunity (NTNC)
Water System Name:	MANCHESTER PUBLIC WORKS	System Status:	A

Sample #:	Sample Pt ID:	Laboratory Name (NJ Lab ID):
380517177.2	TP001001	GARDEN STATE LABORATORIES INC (20044)

Contaminant Results

Analyte Name	Result*	Collection Date	Analytical Method	Analysis Date	Date Received
1,1,1-TRICHLOROETHANE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
1,1,2,2-TETRACHLOROETHANE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
1,1,2-TRICHLOROETHANE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
1,1-DICHLOROETHANE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
1,1-DICHLOROETHYLENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
1,2,4-TRICHLOROBENZENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
1,2-DICHLOROETHANE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
1,2-DICHLOROPROPANE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
BENZENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
CARBON TETRACHLORIDE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
CHLOROBENZENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
CIS-1,2-DICHLOROETHYLENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
DICHLOROMETHANE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
ETHYLBENZENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
M-DICHLOROBENZENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
METHYL TERT-BUTYL ETHER	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
NAPHTHALENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
O-DICHLOROBENZENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
P-DICHLOROBENZENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
STYRENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
TETRACHLOROETHYLENE		05/17/2018	524.2	05/21/2018	06/05/2018

Analyte Name	Result*	Collection Date	Analytical Method	Analysis Date	Date Received
	<0.5 UG/L				
TOLUENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
TRANS-1,2-DICHLOROETHYLENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
TRICHLOROETHYLENE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
VINYL CHLORIDE	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018
XYLENES, TOTAL	<0.5 UG/L	05/17/2018	524.2	05/21/2018	06/05/2018

****The contaminant concentration was above the regulatory detection level of 0.50 µg/L.**

***MG/L=milligrams of contaminant per liter of water, equivalent to ppm (parts per million).**
µg/L=micrograms of contaminant per liter of water, equivalent to ppb (parts per billion).
pCi/L=picocuries of contaminant per liter of water--a curie is a measurement of the rate at which a radioactive material decays.
"<" (less than) means the contaminant cannot be accurately detected below the limit specified; the result can be considered zero.

PWSID:	NJ1518328	Water System Type:	Nontransient noncommunity (NTNC)
Water System Name:	MANCHESTER PUBLIC WORKS	System Status:	A

Sample #: 370609098.2	Sample Pt ID: TP001001	Laboratory Name (NJ Lab ID): GARDEN STATE LABORATORIES INC (20044)

Contaminant Results

Analyte Name	Result*	Collection Date	Analytical Method	Analysis Date	Date Received
1,1,1-TRICHLOROETHANE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
1,1,2,2-TETRACHLOROETHANE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
1,1,2-TRICHLOROETHANE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
1,1-DICHLOROETHANE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
1,1-DICHLOROETHYLENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
1,2,4-TRICHLOROBENZENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
1,2-DICHLOROETHANE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
1,2-DICHLOROPROPANE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
BENZENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
CARBON TETRACHLORIDE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
CHLOROBENZENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
CIS-1,2-DICHLOROETHYLENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
DICHLOROMETHANE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
ETHYLBENZENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
M-DICHLOROBENZENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
METHYL TERT-BUTYL ETHER	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
NAPHTHALENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
O-DICHLOROBENZENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
P-DICHLOROBENZENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
STYRENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
TETRACHLOROETHYLENE		06/08/2017	524.2	06/15/2017	07/07/2017

Analyte Name	Result*	Collection Date	Analytical Method	Analysis Date	Date Received
	<0.5 UG/L				
TOLUENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
TRANS-1,2-DICHLOROETHYLENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
TRICHLOROETHYLENE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
VINYL CHLORIDE	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017
XYLENES, TOTAL	<0.5 UG/L	06/08/2017	524.2	06/15/2017	07/07/2017

****The contaminant concentration was above the regulatory detection level of 0.50 µg/L.**

***MG/L=milligrams of contaminant per liter of water, equivalent to ppm (parts per million).**
µg/L=micrograms of contaminant per liter of water, equivalent to ppb (parts per billion).
pCi/L=picocuries of contaminant per liter of water--a curie is a measurement of the rate at which a radioactive material decays.
"<" (less than) means the contaminant cannot be accurately detected below the limit specified; the result can be considered zero.

PWSID:	NJ1518328	Water System Type:	Nontransient noncommunity (NTNC)
Water System Name:	MANCHESTER PUBLIC WORKS	System Status:	A

Sample #:	Sample Pt ID:	Laboratory Name (NJ Lab ID):
360518020.2	TP001001	GARDEN STATE LABORATORIES INC (20044)

Contaminant Results

Analyte Name	Result*	Collection Date	Analytical Method	Analysis Date	Date Received
1,1,1-TRICHLOROETHANE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
1,1,2,2-TETRACHLOROETHANE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
1,1,2-TRICHLOROETHANE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
1,1-DICHLOROETHANE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
1,1-DICHLOROETHYLENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
1,2,4-TRICHLOROBENZENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
1,2-DICHLOROETHANE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
1,2-DICHLOROPROPANE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
BENZENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
CARBON TETRACHLORIDE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
CHLOROBENZENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
CIS-1,2-DICHLOROETHYLENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
DICHLOROMETHANE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
ETHYLBENZENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
M-DICHLOROBENZENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
METHYL TERT-BUTYL ETHER	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
NAPHTHALENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
O-DICHLOROBENZENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
P-DICHLOROBENZENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
STYRENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
TETRACHLOROETHYLENE		05/18/2016	524.2	05/23/2016	06/02/2016

Analyte Name	Result*	Collection Date	Analytical Method	Analysis Date	Date Received
	<0.5 UG/L				
TOLUENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
TRANS-1,2-DICHLOROETHYLENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
TRICHLOROETHYLENE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
VINYL CHLORIDE	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016
XYLENES, TOTAL	<0.5 UG/L	05/18/2016	524.2	05/23/2016	06/02/2016

****The contaminant concentration was above the regulatory detection level of 0.50 µg/L.**

***MG/L=milligrams of contaminant per liter of water, equivalent to ppm (parts per million).**
µg/L=micrograms of contaminant per liter of water, equivalent to ppb (parts per billion).
pCi/L=picocuries of contaminant per liter of water--a curie is a measurement of the rate at which a radioactive material decays.
"<" (less than) means the contaminant cannot be accurately detected below the limit specified; the result can be considered zero.

PWSID:	NJ1518328	Water System Type:	Nontransient noncommunity (NTNC)
Water System Name:	MANCHESTER PUBLIC WORKS	System Status:	A

Sample Results for PERFLUOROCTANE SULFONIC ACID (PFOS)						
Result*	**Collection Date**	**Sample #**	**Analytical Method**	**Analysis Date**	**Lab Name (NJ Lab ID)**	**Date Received**
TP001001 (Active)						
<2 NG/L	11/05/2019 / 09:35	4476477	EPA 537.1	11/13/2019 / 05:37	EUROFINS EATON ANALYTICAL, INC (IN598)	11/27/2019
<2 NG/L	07/24/2019 / 12:47	4365620	EPA 537	08/03/2019 / 20:06	EUROFINS EATON ANALYTICAL, INC (IN598)	09/12/2019
<2 NG/L	05/21/2019 / 11:07	4303512	EPA 537	06/05/2019 / 17:51	EUROFINS EATON ANALYTICAL, INC (IN598)	06/24/2019
<2 NG/L	01/10/2019 / 10:24	4171013	EPA 537	01/16/2019 / 23:23	EUROFINS EATON ANALYTICAL, INC (IN598)	01/28/2019

***MG/L=milligrams of contaminant per liter of water, equivalent to ppm (parts per million).**
µg/L=micrograms of contaminant per liter of water, equivalent to ppb (parts per billion).
pCi/L=picocuries of contaminant per liter of water--a curie is a measurement of the rate at which a radioactive material decays.
"<" (less than) means the contaminant cannot be accurately detected below the limit specified; the result can be considered zero.

PWSID:	NJ1518328	Water System Type:	Nontransient noncommunity (NTNC)
Water System Name:	MANCHESTER PUBLIC WORKS	System Status:	A

Sample Results for PERFLUOROCTANOIC ACID (PFOA)						
Result*	**Collection Date**	**Sample #**	**Analytical Method**	**Analysis Date**	**Lab Name (NJ Lab ID)**	**Date Received**
TP001001 (Active)						
<2 NG/L	11/05/2019 / 09:35	4476477	EPA 537.1	11/13/2019 / 05:37	EUROFINS EATON ANALYTICAL, INC (IN598)	11/27/2019
<2 NG/L	07/24/2019 / 12:47	4365620	EPA 537	08/03/2019 / 20:06	EUROFINS EATON ANALYTICAL, INC (IN598)	09/12/2019
<2 NG/L	05/21/2019 / 11:07	4303512	EPA 537	06/05/2019 / 17:51	EUROFINS EATON ANALYTICAL, INC (IN598)	06/24/2019
<2 NG/L	01/10/2019 / 10:24	4171013	EPA 537	01/16/2019 / 23:23	EUROFINS EATON ANALYTICAL, INC (IN598)	01/28/2019

***MG/L=milligrams of contaminant per liter of water, equivalent to ppm (parts per million).**
µg/L=micrograms of contaminant per liter of water, equivalent to ppb (parts per billion).
pCi/L=picocuries of contaminant per liter of water--a curie is a measurement of the rate at which a radioactive material decays.
"<" (less than) means the contaminant cannot be accurately detected below the limit specified; the result can be considered zero.

PWSID:	NJ1518328	Water System Type:	Nontransient noncommunity (NTNC)
Water System Name:	MANCHESTER PUBLIC WORKS	System Status:	A

Sample Results for PERFLUORONONANOIC ACID (PFNA)						
Result*	**Collection Date**	**Sample #**	**Analytical Method**	**Analysis Date**	**Lab Name (NJ Lab ID)**	**Date Received**
TP001001 (Active)						
<2 NG/L	11/05/2019 / 09:35	4476477	EPA 537.1	11/13/2019 / 05:37	EUROFINS EATON ANALYTICAL, INC (IN598)	11/27/2019
<2 NG/L	07/24/2019 / 12:47	4365620	EPA 537	08/03/2019 / 20:06	EUROFINS EATON ANALYTICAL, INC (IN598)	09/12/2019
<2 NG/L	05/21/2019 / 11:07	4303512	EPA 537	06/05/2019 / 17:51	EUROFINS EATON ANALYTICAL, INC (IN598)	06/24/2019
<2 NG/L	01/10/2019 / 10:24	4171013	EPA 537	01/16/2019 / 23:23	EUROFINS EATON ANALYTICAL, INC (IN598)	01/28/2019

***MG/L=milligrams of contaminant per liter of water, equivalent to ppm (parts per million).**
µg/L=micrograms of contaminant per liter of water, equivalent to ppb (parts per billion).
pCi/L=picocuries of contaminant per liter of water--a curie is a measurement of the rate at which a radioactive material decays.
"<" (less than) means the contaminant cannot be accurately detected below the limit specified; the result can be considered zero.

J. R. HENDERSON LABS, INC

123 SEAMAN AVENUE
BEACHWOOD, NEW JERSEY 08722-2817
Drinking Water Analysis—Volatile Organics

WATER SYSTEM NAME: Cedar Glen Lakes
PWS ID# NJ1518002 TP002004
FILE # A33514 SAMPLE DATE: 06/10/21

ANALYTE NAME	MRL	RESULTS**	ANALYTICAL METHOD	ANALYSIS DATE	ANALYSIS TIME	SDWIS ANALYTE CODE
1,1,1-TRICHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2981
1,1,2,2-TETRACHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2988
1,1,2-TRICHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2985
1,1-DICHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2978
1,1-DICHLOROETHYLENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2977
1,2,4-TRICHLOROBENZENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2378
1,2-DICHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2980
1,2-DICHLOROPROPANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2983
BENZENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2990
CARBON TETRACHLORIDE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2982
CIS-1,2-DICHLOROETHYLENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2380
DICHLOROMETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2964
ETHYLBENZENE	<0 50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2992
M-DICHLOROBENZENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2967
METHYL TERT-BUTYL ETHER (MTBE)	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2251
MONOCHLOROBENZENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2989
NAPHTHALENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2248
O-DICHLOROBENZENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2968
P-DICHLOROBENZENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2969
STYRENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2996
TETRACHLOROETHYLENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2987
TOLUENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2991
TRANS-1,2-DICHLOROETHYLENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2979
TRICHLOROETHYLENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2984
VINYL CHLORIDE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2976
XYLENES	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	02:27	2955

UG/L=micrograms of contaminant per liter of water, equivalent to ppb (parts per billion).

****ALL SAMPLES WERE RUN UNDILUTED (DILUTION FACTOR 1) UNLESS OTHERWISE NOTED.****

Notes:

J. R. HENDERSON LABS, INC

123 SEAMAN AVENUE
BEACHWOOD, NEW JERSEY 08722-2817
Drinking Water Analysis—Volatile Organics

WATER SYSTEM NAME: Cedar Glen Lakes
PWS ID# NJ1518002 TP001001
FILE # A33513 SAMPLE DATE: 06/10/21

ANALYTE NAME	MRL	RESULTS**	ANALYTICAL METHOD	ANALYSIS DATE	ANALYSIS TIME	SDWIS ANALYTE CODE
1,1,1-TRICHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2981
1,1,2,2-TETRACHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2988
1,1,2-TRICHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2985
1,1-DICHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2978
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1,2-DICHLOROETHANE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2980
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O-DICHLOROBENZENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2968
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STYRENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2996
TETRACHLOROETHYLENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2987
TOLUENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2991
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TRICHLOROETHYLENE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2984
VINYL CHLORIDE	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2976
XYLENES	<0.50 UG/L	<0.50 UG/L	524.2	06/12/21	01:44	2955

UG/L=micrograms of contaminant per liter of water, equivalent to ppb (parts per billion).

****ALL SAMPLES WERE RUN UNDILUTED (DILUTION FACTOR 1) UNLESS OTHERWISE NOTED.****

Notes:

Attachment B
(drawings provided separately)

Attachment C

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DIVISION 31 – EARTHWORK

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Section 31 23 19 Dewatering and Stormwater Control

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SECTION 00 31 19
EXISTING CONDITIONS

PART 1 GENERAL

1.01 SUMMARY

A. The Manchester Township Landfill (Site) is an existing unlined municipal landfill facility located at 110 Sam Pitts Road in Manchester Township, New Jersey.

B. The Site is owned by the Manchester Township (Township) and portions of the Site are leased to NextGrid Manchester, LLC, Inc. (DEVELOPER) for redevelopment as a solar energy system.

C. CONTRACTOR is the firm retained by the DEVELOPER to construct the prescribed design in accordance with the Construction Documents. CONTRACTOR may retain the services of specialty subcontractors and suppliers.

D. CQA Consultant is a party, independent from the Township, DEVELOPER, and CONTRACTOR or its construction subcontractors and is responsible for observing and documenting activities related to the performance of the various components of the design, as described in the Construction Quality Assurance Plan.

E. The CONTRACTOR's access to the Site shall be limited to the areas indicated on the Drawings or as otherwise approved in writing by the Developer.

1.02 SITE CONDITIONS

A. The Site is bounded on the north, east, and west by forest and to the south by a John Davison Rockefeller Memorial Highway (also referred to as New Jersey State Route 70 or SR-70). The Site may be accessed at a single location from SR-70. CONTRACTOR shall coordinate with the DEVELOPER to establish an access and egress point, temporary haul routes, and laydown areas.

B. Wetland areas have been delineated on the Site as shown on the Drawings. Disturbance of the wetland areas shall not be permitted. Wetland areas shall be protected by the CONTRACTOR. Any damage to wetland areas caused by CONTRACTOR shall be restored to the satisfaction of the CQA CONSULTANT and at no cost to the Township or DEVELOPER. Any monetary or other penalties which are a result of CONTRACTOR's Work shall be the sole responsibility of the CONTRACTOR.

C. Environmental monitoring wells are located throughout the Site, including within the limits of disturbance for the Work. These monitoring wells shall not be disturbed except as described in the Construction Documents. Any damage to environmental monitoring wells caused by CONTRACTOR shall be restored to the satisfaction of the Township, DEVELOPER, and the New Jersey Department of Environmental Protection (NJDEP) at no cost to the Township or DEVELOPER. CONTRACTOR shall organize the Work

in a manner that allows continuous access to all environmental monitoring wells.

D. The Township maintains a shooting range to the north of the Site, which will remain in operation throughout the Work. CONTRACTOR shall coordinate safe access to the shooting range throughout the Work. Further CONTRACTOR shall not access or otherwise disturb the areas near the shooting range without prior approval from the DEVELOPER.

E. The Township currently uses portions of the Site as a yard waste composting operation and multiple compost and yard waste stockpiles are present. The compost will be relocated off-Site prior to or immediately upon the start of Work.

F. The Township currently uses a portion of the Site as a publicly accessible recycling area. The CONTRACTOR shall remove and reinstall the recycling area as part of the Work as shown on the Drawings.

G. Overhead power lines are present onsite. The power lines are to be removed and/or relocated during the Work as shown on the Drawings.

H. The asphalt pavement at the Site entrance shall be protected and serve as the tie-in point for the subgrade and final cover system, as shown on the Drawings. Asphalt pavement around the existing salt shed structure shall be removed and transported off-site as described on the drawings. Asphalt shall not be reused for any reason as part of the landfill closure.

I. Additional site features are shown and shall be managed as noted on the Drawings or as directed by the DEVELOPER.

1.03 HOURS OF CONSTRUCTION

A. CONTRACTOR shall perform the Work Monday through Friday during daylight hours.

B. Work is not permitted on Saturdays, Sundays, or legal holidays unless prior written authorization is obtained from the Township and the DEVELOPER.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

END OF SECTION

SECTION 01 32 23
SURVEY REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

A. CONTRACTOR shall comply with the requirements of this Section regarding field surveying.

B. CONTRACTOR shall employ a licensed Surveyor to provide field survey control and prepare as-built Record Drawings of CONTRACTOR's construction activities.

C. CONTRACTOR shall be responsible for coordination of all as-built surveying. Should as-built surveying data not meet the requirements of this Section, CONTRACTOR shall be solely responsible for all delays and costs associated with uncovering completed Work in order to obtain necessary as-built data.

D. CONTRACTOR's Surveyor will work with the CQA CONSULTANT to ensure that the Work is completed as required by the Construction Documents.

1.02 SURVEYOR QUALIFICATIONS

A. CONTRACTOR's Surveyor shall meet the following minimum qualifications:

1. Surveyor is a registered professional surveyor in the State of New Jersey;
2. Surveyor has an established office in New Jersey that provides land surveying services;
3. Surveyor can document prior experience on at least one previous project requiring earthwork as-built surveying; and
4. Surveyor is acceptable to the CQA CONSULTANT and DEVELOPER.

1.03 SUBMITTALS

A. At least fourteen (14) days prior to the Preconstruction Meeting, CONTRACTOR shall submit to the CQA CONSULTANT the name, contact information, and qualifications of the Surveyor.

B. Upon request, CONTRACTOR shall submit to the CQA CONSULTANT the project staffing, scheduling, and the type of equipment the Surveyor intends to use in the field and in the office (i.e., computer software) to complete the Work.

C. On request, CONTRACTOR shall submit to the CQA CONSULTANT, documentation verifying accuracy of survey work.

1.04 PROJECT RECORD DRAWINGS

A. CONTRACTOR or Surveyor shall maintain a complete and accurate log of control and survey work as the Work progresses.

B. CONTRACTOR shall keep and update as-built drawings of all work consistent with the requirements of Part 1.07.E of this Section. CONTRACTOR shall allow the CQA CONSULTANT to routinely inspect the interim record drawings. At the end of the Work, CONTRACTOR shall submit a complete set of Record Drawings and the Surveyor's log of control and survey work to the CQA CONSULTANT for its use in preparing the final report of construction activities.

1.05 EXAMINATION

A. CONTRACTOR or Surveyor shall verify locations of survey control points prior to starting Work.

B. CONTRACTOR shall promptly notify DEVELOPER or CQA CONSULTANT of any discrepancies discovered.

1.06 SURVEY REFERENCE POINTS

A. CONTRACTOR shall protect existing survey control and reference points.

B. CONTRACTOR shall protect survey control monuments during construction.

C. CONTRACTOR shall promptly report to DEVELOPER and CQA CONSULTANT the loss or disturbance of any monument or relocation required because of changes in grades or other reasons.

D. CONTRACTOR's Surveyor shall replace disturbed monuments based on original survey control. Changes shall not be made without prior written notice to DEVELOPER and CQA CONSULTANT.

1.07 SURVEY REQUIREMENTS

A. CONTRACTOR or Surveyor shall provide field survey services to perform the Work using accepted engineering survey practices.

B. Surveyor shall provide all materials required to establish and maintain benchmarks, control points, grade stakes, and other necessary items.

C. All topographic surveying shall have a horizontal scale of 1 in = 50 ft with 1-ft contour intervals. Elevations shall be taken at a maximum 50-ft grid to confirm as-built grades.

D. Survey of the Work shall extend to at least 25 ft beyond the limits of the applicable work area.

E. To prepare Record Drawings, the Surveyor shall establish the as-built elevations, lines, and levels for the features of the Work including, but not limited to:

1. Topography of work area prior to commencement of Work.
2. Topography of the work area following vegetation clearing and removal of stored materials and equipment indicated on the Drawings.
3. Topography of the prepared subgrade prior to placement of the final cover system. As-built survey information should be collected within 7 days of establishing design subgrade in a given area to confirm grades have been achieved as designed but before significant effects of waste settlement have occurred.
4. Limits and topography of the top of Cover Soil.
5. Limits and topography of the top of Topsoil in areas of the vegetated final cover system.
6. Limits and topography of the top of Coarse Aggregate in areas of the aggregate final cover system.
7. Limits and topography of the final grades of the stormwater management basins.
8. Location, invert, and pipe sizes of stormwater system components, including manholes, vaults, and pipes. Gravity piping shall be measured for slope at maximum 25-ft intervals along the pipe
9. As-built location and, as appropriate, elevation of closure system features, including but not limited to retaining walls, asphalt-paved areas, gas vents, stormwater channels, stormwater infiltration features, downchutes, riprap energy dissipation pads, etc.
10. Dimensions and surface elevations of the Access Road.

1.08 SURVEY FOR QUANTITY ESTIMATES

A. CONTRACTOR is responsible to obtain and submit all survey documentation it s, including electronic computer-aided drafting (CAD) files, required for verification of quantities. DEVELOPER or CQA CONSULTANT may verify measurements and quantities.

B. Should DEVELOPER or CQA CONSULTANT determine that insufficient survey data has been submitted to accurately verify quantities, DEVELOPER or CQA CONSULTANT shall notify CONTRACTOR of deficiencies. CONTRACTOR shall address identified deficiencies prior to further review of quantities.

C. If survey data provided by CONTRACTOR is not sufficient to determine actual completed quantity and the status of the Work prevents additional data from being obtained, DEVELOPER or CQA CONSULTANT shall attempt to reasonably estimate the completed quantity based on available information and DEVELOPER or CQA CONSULTANT's estimate shall be final.

D. DEVELOPER shall have the right to retain a third-party surveyor licensed in the State of New Jersey to review field survey data and/or resurvey portions of the Work to check as-built quantity estimates. In the case of conflict between the two surveys, the CQA CONSULTANT shall review the two surveys and determine the final pay quantity.

E. Surveys for interim payments may be performed by means other than use of a licensed surveyor, as agreed between CONTRACTOR and DEVELOPER. Surveys for final payment shall be performed by a licensed surveyor as described in this Section.

1.09 TOLERANCES

A. All constructed products shall meet the following survey tolerances:

1. Length, thickness, or distance: ±0.1 ft
2. Length, thickness, or distance with a specified minimum: 0 to +0.2 ft
3. Vertical elevation: ±0.1 ft
4. Slope angles: ± 5 percent of specified slope (e.g. 3H:1V = 33.3 percent ±1.7 percent)
5. Slope angles with a specified minimum: 0 to + 10 percent of specified slope
6. Horizontal coordinates: ±0.1 ft

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

END OF SECTION

SECTION 01 35 29.13
HEALTH AND SAFETY REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

A. This Manchester Township Landfill (Site) is an existing unlined municipal landfill facility. This Section specifies the minimum health and safety submission and Work requirements for the Site. The remedial action (RA) Contractor shall develop and implement an overall site-specific Health and Safety Plan (HASP). The HASP shall address all activities performed within the Construction Documents.

B. The HASP shall address all applicable requirements under Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulation (CFR) 1910.120 and/or 1926.65. The HASP shall be written to avoid misinterpretation, ambiguity, and mistakes that verbal orders cause.

C. The HASP shall be prepared and implemented by qualified personnel employed by the Contractor and shall address all excavation, demolition, earthwork, backfilling, waste handling, water management, and all other relevant general construction hazards and other Work-specific hazards. The Contractor's HASP shall also address employee hazard control procedures for waste, and stormwater, and leachate handling and management.

D. The Contractor shall assume responsibility for the means and methods of jobsite safety, including general safety oversight authority for the health, safety, and protection of the Contractor and subcontractor, on-site personnel, agency representatives, visitors, and the public during the performance of the Work. The Contractor is responsible for providing facilities, labor, materials, tools, equipment, appliances, transportation, and supervision necessary to complete the Work specified in this Specification and in the Construction Documents in a safe, diligent, and compliant manner.

1.02 RELATED SECTIONS, PLANS, AND DOCUMENTS

A. All Sections of these Specifications and the Construction Documents

1.03 REFERENCES

A. The following codes and standards shall be used to conduct the Work referenced in this Specification. The latest version of all codes and standards apply.

1. Federal OSHA Standards
    a. OSHA 1910.95 – Occupational Noise Exposure

b. *General Industry Standards and Interpretations*. Volumes 1 to 3. OSHA 2017. U.S. Department of Labor, OSHA. Specifically Sections 29 CFR 1910.1000-1050 (air contaminants), 1910.120 (Hazardous Waste Operations and Emergency Response), 1910.137 (Electrical Protection), Part 1910 Subpart L (Fire Protection), 1910.1200 (Hazard Communication), 1910.301 Subpart S (Electrical), 1910.146 (Permit Required Confined Space), 1910.147 (Control of Hazardous Energy (Lockout/Tagout), Part 1904 (Recordkeeping and Reporting Occupational Injuries and Illnesses), Part 1990 (Identification, Classification and Regulation of Potential Occupational Carcinogens), and Part 1926 (Safety and Health Regulations for Construction)

c. *Hazardous Waste Inspections Reference Manual.* U.S. Department of Labor. OSHA. 1986

d. *OSHA Field Operations Manual*. 2nd Edition. U.S. Department of Labor. OSHA. 1987

1.04 HEALTH AND SAFETY REQUIREMENTS

A. The Contractor shall always be solely responsible for exercising reasonable precaution to protect the health, safety, and welfare, of Site workers, on-site personnel, visitors, trespassers, and the environment during performance of the Work described herein and shown on the Drawings. The Contractor shall comply with all applicable provisions of federal, state, and local health and safety and occupational health and safety statutes and codes.

B. The Contractor shall also comply with conditions contained in site-specific regulations, permits, or licenses and shall make every effort to comply with requests from the Developer.

1. The Contractor shall be responsible for full compliance with the regulations established under the federal Occupational Safety and Health Act of 1970, including agreements with the U.S. Department of Labor and the State of New Jersey and any applicable amendments or revisions thereof, whether associated with the furnishing of equipment and or systems, the installation of equipment and/or systems, the construction of facilities, the performance of services, or any other similar contractual relation.
2. The Contractor shall be responsible for any violations of the regulations, including payment of costs involved with correction of violations, hearing or appeal procedures, and claims or fines associated with said violations at no additional cost to Owner.
3. The Contractor shall comply with applicable requirements of labor laws and regulations of the State of New Jersey applicable to safety and the authorities having jurisdiction over same.

4. The Contractor shall maintain adequate protection against damage to life and property involved in the Work and shall provide all necessary, protective devices until completion and final acceptance of the project by Owner's Representative.

C. In any emergency threatening life or property, not considered by Contractor as coming under the preceding provisions, the Contractor may act at its own discretion without authorization by the Developer. In the case of such an event, the Contractor shall notify the Developer as soon as possible.

D. The Contractor shall be responsible for all notifications to utility companies or other parties regarding any intrusive Site work in compliance with OSHA 29 CFR 1926 Subpart P and all applicable local and state requirements.

E. The Contractor shall use qualified personnel acceptable to the Developer to develop, implement, administer, and supervise a site-specific HASP and associated procedures in accordance with these Specifications.

F. The Contractor's qualified personnel shall be responsible for developing a site-specific HASP consistent with the requirements described herein and specifying the Contractor's policies and procedures to adequately protect Site workers, on-site personnel, agency representatives, visitors, and trespassers. The Contractor shall review the available chemical and analytical data, the specified scope of work, and the Site conditions in the development of the HASP. The HASP shall be written in compliance with applicable sections of OSHA 29 CFR Parts 1926 and 1910. The HASP must establish in detail the protocols necessary for protecting workers, agency representatives, on-site personnel, visitors, and trespassers from potential physical and chemical hazards encountered during the Work. The HASP must include routes to the nearest hospital or emergency health facility. A hard copy of the HASP must be maintained at all project Work areas. The Contractor shall maintain records demonstrating that each worker has reviewed the HASP on an annual basis.

G. The Contractor shall be required to conduct the Work in a manner that prevents odors and fugitive dust that might affect public health or result in nuisance conditions. The Contractor shall provide and have immediately available in adequate amounts equipment, processes, or materials accepted by the Developer to mitigate reasonably foreseeable air or odor conditions commensurate with the type of remediation work being conducted at the time.

H. The opinions of the Developer regarding expected Site conditions do not relieve the Contractor of its responsibility to protect the health and safety of its employees, all subcontractor employees, the public welfare, and the environment. In the event the Contractor discovers unknown, unforeseen, sudden, or potentially hazardous conditions or environmental conditions inconsistent with known existing conditions, the Contractor shall notify the Developer immediately. Verbal notification of any environmental releases, injuries, near misses, or OSHA-reportable events shall be provided to the Developer immediately following the incident. At that time, Site actions may include a

safety stand-down or safety work stoppage depending on the severity of the event, which shall be followed by a written description of the conditions and actions taken to mitigate the situation. The written description shall be submitted to the Developer within 24 hours of the discovery. The Contractor shall cooperate with any follow-up investigations conducted by the Developer of a reportable condition or other incident.

1.05 SUBMITTALS

A. The Contractor shall submit the following to the Developer's Representative:

1. Site-specific HASP. The HASP shall include policies and procedures for working 12 months a year (including winter months) and 24 hours per day. At a minimum, the HASP shall include the following:
    a. Names and contact information of key personnel and alternate responsible for Site health and safety (responsibilities and chain of command)
    b. Specific provisions for stopping work and reevaluating safety procedures and equipment in the event an unanticipated Work scope is required
    c. Safety data sheets (SDSs) for products to be used at the Site
    d. Task-specific Job Safety Analysis (JSA) for each component for the Work anticipated for the project.
    e. Requirements for training in accordance with applicable federal, state, and local regulations for each work task and a record or schedule for training of the Contractor’s and subcontractors’ workers in the use of personal protective equipment (PPE)
    f. Corrective actions to be completed for dust and odor issues
    g. Logs, reports, and recordkeeping
    h. Emergency procedures for occurrences such as personal injury, fire, and exposure to toxic substances
    i. Emergency contact information
    j. Documentation of 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training and applicable 8-hour annual HAZWOPER refresher training and other applicable training (e.g., supervisory, confined space entry) for personnel

1.06 RESPONSIBILITIES OF CONTRACTOR AND ADDITIONAL SUBCONTRACTORS

A. The minimum precautions noted in this Specification shall in no way relieve the Contractor from the responsibility to implement stricter health and safety precautions as warranted by the Work.

B. Overall responsibility for implementation of the HASP shall be the responsibility of the Contractor. The Contractor shall conduct an initial survey to determine the appropriate

safety procedures and level of worker safety equipment, shall prepare the HASP, and shall oversee the activities of the SSHOs.

C. The Contractor shall also be responsible for signing visitors onto the Site and providing them with information regarding the day's activities and related safety issues. The Contractor shall maintain a daily visitor's log, record the name and affiliation of each visitor, and document the safety orientation.

D. The Contractor shall also be responsible for implementing the HASP by all other subcontractors.

E. The Contractor shall provide all necessary health and safety equipment, including PPE, respiratory equipment (if applicable), and monitoring instruments.

F. The Contractor shall be responsible for determining the appropriate level of personal protection required based on the criteria outlined in the Contractor's HASP. Work shall be suspended whenever the Contractor personnel are not equipped with a sufficient level of PPE for the hazards encountered. In the event the Contractor determines that a level of protection higher than Level D is required, the Contractor shall immediately or preemptively notify the Developer, and the Contractor's personnel shall take the necessary steps outlined in the HASP.

G. It shall be the Contractor's responsibility to notify the Developer verbally and in writing as quickly as possible should any unforeseen safety hazard or condition become evident during the performance of the Work. In the interim, the Contractor shall take prudent action to establish and maintain safe working conditions and to safeguard workers, on-site personnel, visitors, trespassers, and the environment in accordance with the established emergency response procedures detailed in the Contractor's HASP.

1.07 STOP WORK AUTHORITY

A. Should any unforeseen safety-related factor, hazard, or condition that poses a potential threat of physical injury or harm to Site personnel or the environment becomes evident during the performance of the Work, all Site personnel shall have authority as granted by OSHA regulations to issue a Stop Work directive. In addition, the Developer shall also have authority to issue a Stop Work directive upon observation of a safety-related factor, hazard, or condition of potential injury or harm to the environment.

If a Stop Work directive is issued, the Contractor shall immediately take prudent corrective actions to secure the Work and provide safe conditions for Site personnel and the environment. This corrective action shall be followed by an immediate verbal notification to the Developer. The written incident report shall be provided as soon as possible but, at a minimum, by 10:00 a.m. local time the day following the incident. The Contractor shall investigate and provide a written report incorporating the results of the investigation if directed by the Developer. The Developer's Representative may prohibit the restart of Site operations pending receipt and acceptance of any directed reporting.

B. The Contractor shall not charge standby time during Stop Work directives initiated by the Developer in response to the Contractor's near miss, unsafe action, or reportable safety incident.

C. Should the Contractor refuse to obey a Stop Work directive, the Developer may immediate excuse the Contractor from the Site.

PART 2 PRODUCTS

2.01 MATERIALS

A. The Contractor and all subcontractors shall provide on-site personnel with the appropriate PPE when required by the Contractor's HASP and shall ensure that all PPE is kept clean and well maintained.

B. The minimum PPE to be worn in general work areas includes hard hats, hard-toed work boots (steel or composite), reflective high visibility upper body garment, eye protection (ANSI Z878), and standard work clothes.

C. All health and safety materials and equipment shall conform, at a minimum, to OSHA, NIOSH, and American National Standards Institute (ANSI), and ASTM International standards and requirements.

D. Clothing and Equipment: Generally, protective clothing is considered disposable, but respiratory equipment may be reusable. Clothing and equipment corresponding to the various levels of personal protection as defined in the referenced standards include the following:

1. Level D Protection
    a. Coveralls (cotton) or work clothes
    b. Hard-toed work boots/shoes
    c. Eye protection (ANSI Z87)
    d. Hard hat with optional face shield
    e. Reflective high-visibility upper body garment
2. Modified Level D Protection
    a. Long-sleeved jacket (rain suit) and Tyvek® coveralls, poly-coated Tyvek coveralls, or chemical protective overalls
    b. Gloves, outer (neoprene, polyvinyl chloride [PVC] flocked nitrile, butyl or Viton™)
    c. Boots with chemical protective toe and shank (neoprene or nitrile) or boots with chemical protective boot covers (e.g., disposable PVC)
    d. Eye protection (ANSI Z87)

e. Hard hat with optional face shield
f. Reflective high-visibility upper body garment

3. Level C Protection
   a. Long-sleeved jacket (rain suit) and Tyvek coveralls, poly-coated Tyvek coveralls, or chemical protective overalls
   b. Gloves, inner (disposable surgical type)
   c. Gloves, outer (neoprene, PVC flocked nitrile, Viton or Butyl)
   d. Boots with chemical protective toe and shank (neoprene or nitrile); or boots with chemical protective boot covers (e.g., disposable PVC)
   e. Full facepiece, air-purifying respirator (MSA Ultra Twin or equal)
   f. Hard hat
   g. Face shield (optional)

E. The Contractor shall notify the Developer in advance of deploying Level C PPE on the Site because public or regulatory notifications of upgrades may be necessary.

F. The Contractor shall supply any additional PPE or safety equipment for the period of construction as required by Contractor's HASP or OSHA.

PART 3 EXECUTION

3.01 IMPLEMENTATION AND GENERAL REQUIREMENTS

A. The Contractor shall take measures to protect all on-site personnel from exposure to Site contaminants, hazardous wastes as defined by the United States Environmental Protection Agency, hazardous materials as defined by the New Jersey Department of Transportation, and/or hazardous substances as defined by OSHA, which may originate from or be present at the Site.

B. The Contractor shall take measures to ensure that all construction activities are conducted in a safe manner, including specific procedures for working in the vicinity of heavy equipment, underground and overhead utilities, Site clearing and tree removal, excavation, work in the vicinity of the radio tower and grounding grid, and all in-water operations.

C. The Contractor shall establish and maintain work zones (i.e., support, contamination reduction, and exclusion zones) at the Site in accordance with OSHA 29 CFR 1910.120/1926.65.

D. The Contractor shall maintain all required forms and OSHA records at the Site.

E. The Contractor shall provide all required personnel decontamination equipment and materials in accordance with OSHA 29 CFR 1910.120/1926.65.

F. The Contractor shall dispose of all PPE used by the Contractor's employees, subcontractors, Engineer, Owner, Owner's Representative, agency representatives, and/or any other visitors in accordance with all applicable regulations.

G. The HASP shall be implemented by the Contractor and subcontractors under the direction of the Contractor. It is the Contractor's responsibility to ensure all on-site personnel comply with the HASP. Modifications to the Contractor's HASP shall be made by the CIH/CSP after consultation with the Owner's Representative.

H. The Owner's Representative may conduct quality assurance inspections and will have access to all the Contractor's project-specific health and safety records.

I. The levels of protection are established in the referenced standards. It is anticipated that most Work will require Level D or Modified Level D PPE. Upgrading the level of protection shall be the sole responsibility of the Contractor. The Contractor shall notify the Owner's Representative immediately of the need to upgrade levels of PPE.

3.02 EMERGENCY AND CONTINGENCY PLANNING

A. The Contractor's HASP shall include emergency procedures for occurrences such as personal injury, fire, and exposure to toxic substances. The SSHO shall instruct all personnel, including subcontractor personnel, on the Site during the daily safety briefings concerning these safety procedures.

B. Emergency response procedures shall include employee training, alarm systems, escape routes and procedures, critical operations or equipment, rescue and medical duty assignments, designation of responsible parties, emergency reporting procedures, and methods to account for all employees after evacuation.

C. Emergency contact information shall be included in the Contractor's HASP and shall be posted by the Contractor in accessible areas near the Work.

D. If on-site Work results in the accidental spill or release of oil or hazardous materials, containment to the extent possible by on-site personnel (in proper PPE, as designated by the SSHO) shall be required of the Contractor. Containment shall include using absorbent pads or materials; diking with soil; and covering and/or diverting spills from sewers, drains, and surface water bodies. For any spill that cannot be controlled by on-site personnel or is above the applicable reportable quantities, the SSHO or designee shall secure the area and notify the necessary personnel, including the Owner's Representative, other relevant state environmental personnel, and a designated hazardous materials cleanup subcontractor trained in compliance with the emergency response training requirements of OSHA 29 CFR 1926.65 and 1910.120. All Contractor personnel who perform activities involving a response to a release of hazardous substances shall be trained in compliance with the emergency response training requirements of OSHA 29 CFR 1926.65 and 1910.120.

E. Should any unforeseen hazardous condition that may affect the completion of this Work become evident, the Contractor shall immediately bring the condition to the attention of the Developer, both verbally and in writing. Resolution of the matter shall come through the Developer. In the interim, the Contractor shall take prudent action to establish and maintain safe working conditions and to safeguard all Site personnel, the public, and the environment.

3.03 LOGS, REPORTS, AND RECORDKEEPING

A. The Contractor shall maintain daily logs and reports covering the implementation of the HASP, including the air and noise monitoring program and daily safety meetings. The format shall be developed by the Contractor to include daily logs and weekly reports. The Contractor shall provide the Developer with copies of all logs and reports as requested.

B. The Contractor shall daily provide the Developer with minutes of safety meetings, including topics discussed and attendance sheets.

C. The Contractor shall be solely responsible for compliance with all federal laws (such as OSHA 29 CFR 1926.33/1910.1020) that require chemical exposure records and medical records to be maintained by the employer for a specified length of time after termination of the job.

END OF SECTION

SECTION 01 43 00
CONSTRUCTION QUALITY ASSURANCE

PART 1 GENERAL

1.01 SUMMARY

A. DEVELOPER may retain a Construction Quality Assurance (CQA) Consultant who shall be responsible for quality assurance testing and monitoring of the Work. The CQA Consultant shall perform the quality assurance testing and construction monitoring in accordance with the Construction Documents (CQA Plan, Specifications, and Drawings).

B. CQA testing procedures and frequencies for individual products, materials, and procedures are described in the CQA Plan and in the Specifications.

C. For this Project, CQA refers to means and actions employed by DEVELOPER or CQA Consultant and testing laboratories to assure that the components of the design are produced and installed to conform to the requirements of the Drawings and Specifications.

D. When requested by the DEVELOPER or CQA Consultant, CONTRACTOR shall provide equipment and labor required to support CQA monitoring, testing, and sampling.

E. CONTRACTOR shall be familiar with the contents of the CQA Plan. CONTRACTOR shall take the quality assurance testing frequencies and procedures into account when planning the construction schedule. CONTRACTOR shall not claim delay of the Work because of quality assurance testing.

1.02 DEFINITIONS

A. CQA is a planned and systematic pattern of the means and actions designed to provide adequate confidence that items or services meet contractual and regulatory requirements and will perform satisfactorily in service.

B. For this Project, CQA refers to means and actions employed by ENGINEER or CQA Consultant and testing laboratories to provide DEVELOPER with confidence that the components of the design are produced and installed to conform to the requirements of the Drawings and Specifications.

1.03 ROLE OF CQA PERSONNEL

A. The CQA Consultant's presence does not include supervision or direction of the actual work by CONTRACTOR, its employees, or agents. Neither the presence of the CQA Consultant nor any observations and testing performed by the CQA Consultant shall excuse the Contractor from defects discovered in its work. CONTRACTOR shall abide

by all qualification requirements identified in these Specifications (for subcontractors, suppliers, manufacturers, etc.).

B. The role of CQA personnel is specifically to review the progress and quality of the work completed by CONTRACTOR. Unless CONTRACTOR obtains prior written approval by the DEVELOPER that identifies the duties and information to be monitored by field inspection personnel, under no circumstances shall CONTRACTOR be entitled to claim that the review, acknowledgement, or signature of CONTRACTOR's work orders, time sheets, or other administrative forms by CQA personnel constitute a change order claim or agreement regarding the time, equipment, materials, or effort expended.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

END OF SECTION

SECTION 01450
CONSTRUCTION QUALITY CONTROL

PART 1 GENERAL

1.01 SUMMARY

A. CONTRACTOR shall designate one person as the Quality Control Manager for the Work. The Quality Control Manager shall be responsible for preparing and submitting quality control certifications and test results to DEVELOPER, as applicable.

B. CONTRACTOR shall maintain an appropriate frequency of contact with DEVELOPER and its Construction Quality Assurance (CQA) Consultant to ensure that work quality is being maintained.

C. CONTRACTOR shall perform Construction Quality Control (CQC) field and laboratory testing as required by and as necessary to demonstrate compliance with the Construction Documents. If CONTRACTOR is unable to self-perform these tasks, CONTRACTOR shall retain a CQC Consultant to complete the required CQC field and laboratory testing.

1.02 DEFINITIONS

A. Construction Quality Control are those actions that provide a means to measure and regulate the characteristics of an item or service to contractual and regulatory requirements.

B. Construction Quality Control refers to those actions taken by the manufacturers, fabricators, installers, or CONTRACTOR to ensure that the materials and the workmanship meet the requirements of the Drawings and the Specifications.

1.03 SUBMITTALS

A. At least fourteen (14) day prior to the Preconstruction Meeting, CONTRACTOR shall prepare a CQC Plan for the Work. The Plan shall (i) identify the Quality Control Manager; (ii) identify CONTRACTOR's CQC Consultant and/or testing laboratories, if required; and (iii) describe the proposed means and methods for quality control to be implemented by CONTRACTOR. The CQC Consultant and/or laboratories shall be acceptable to DEVELOPER.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.01 GENERAL

A. CONTRACTOR shall be responsible for performing quality control oversight and documentation as necessary to ensure that the Work is in conformance with the requirements of the Construction Documents.

B. Quality control testing procedures and frequencies for individual products and material Care described in the Specifications.

3.02 FIELD QUALITY CONTROL

A. CONTRACTOR shall perform CQC soils testing during construction and shall promptly provide all test results to DEVELOPER.

B. DEVELOPER has the right to perform CQA testing and to observe the work at any time. CONTRACTOR shall be responsible for cooperating with DEVELOPER during all CQC and CQA testing activities and in resolving all problems identified during testing. CONTRACTOR shall provide all equipment and labor required to access CQC and CQA testing locations. CONTRACTOR shall repair any damage to finished Work caused by CQC or CQA sampling or testing activities.

C. Material sampling and testing for soils, geosynthetics, pipe, etc., is the responsibility of CONTRACTOR and shall be performed by the appropriate supplier or manufacturer. CONTRACTOR and its subcontractor(s) shall be responsible for cooperating with DEVELOPER during all testing activities. CONTRACTOR and its subcontractor(s) shall provide equipment and labor required to access CQA testing locations. CONTRACTOR and its subcontractor(s) shall repair any damage to finished Work caused by sampling or testing activities.

D. CONTRACTOR shall be responsible for geometric control of the Work. Any surveying that may be performed by DEVELOPER does not relieve CONTRACTOR of its responsibility to layout, control, and document its Work. Any additional surveying that is required, if the initial CQC survey shows that the Work has not yet been completed to the lines and grades shown on the Drawings, shall be performed at the expense of CONTRACTOR.

E. CONTRACTOR shall abide by all qualification requirements identified in these Specifications for subcontractors, supplies, manufacturers, etc.

F. The work shall, at all times, be subject to the observation of DEVELOPER. Observation or non-observation by DEVELOPER shall not relieve CONTRACTOR from his contractual obligation to furnish work and material and properly complete the work in accordance with these Construction Documents. If DEVELOPER considers that the work is not being properly accomplished, it may condemn or reject all or any part or the work and any materials or equipment incorporated into it. If any material, equipment,

or work is condemned or rejected by DEVELOPER, CONTRACTOR shall bear all expenses for removal and proper replacement of such material, equipment, or work required to be provided by Construction Documents. The expense of replacing any work performed by others that is adversely affected by removal and proper replacement of improper work performed by CONTRACTOR shall be borne by CONTRACTOR.

G. CQA personnel's presence does not include supervision or direction of the actual work by CONTRACTOR, its employees, or agents. Neither the presence of DEVELOPER nor any observations and testing performed by either party shall excuse CONTRACTOR from defects discovered in its work. CONTRACTOR shall abide by all qualification requirements identified in these Specifications (for subcontractors, supplies, manufacturers, etc.).

3.03 PROTECTION

A. CONTRACTOR shall use all means necessary to protect all prior work, including all materials and completed work of other Sections of these Specifications.

B. In the event of damage to work performed by CONTRACTOR prior to DEVELOPER's acceptance of the Work, CONTRACTOR shall immediately make all repairs and replacements necessary to the approval of DEVELOPER and at no additional cost to DEVELOPER.

3.04 SUBSTANDARD WORK OR MATERIALS

A. Any defective or substandard work or materials furnished by CONTRACTOR that is discovered before the final acceptance of the Work, as established by the Certificate of Substantial Completion, or during the subsequent warranty period, shall be removed immediately by CONTRACTOR even if it had been initially overlooked by DEVELOPER and recommended for payment. Satisfactory work or materials shall be substituted by CONTRACTOR for that rejected.

B. DEVELOPER may order tests on substandard or damaged work, equipment, or materials to determine the required functional capability for possible acceptance, if there is no other reason for rejection. The cost of such tests shall be borne by CONTRACTOR, and the nature, extent, and supervision of the tests will be as determined by DEVELOPER. If the results of the tests indicate that the required functional capability of the work, equipment, or material is impaired, consistent with the final general appearance of same, the work, equipment, or materials may be deemed substandard and shall be replaced by CONTRACTOR. CONTRACTOR may elect to replace the substandard work or material in lieu of performing the tests.

END OF SECTION

SECTION 31 00 00
EARTHWORK

PART 1 GENERAL

1.01 SCOPE OF WORK

A. CONTRACTOR shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary to place and compact fill materials in accordance with these Specifications and the Drawings.

B. Fill materials described in this Section shall be used for construction as follows.

1. Prepared Subgrade Fill shall be existing material graded and compacted to provide a competent subgrade for construction of the final cover system.

2. Structural Fill shall be onsite or imported materials used for subgrade fill, as necessary, grading purposes in areas with structural loads, and as pipe and drainage structure backfill.

3. Cover Soil shall be suitable imported material or material excavated from the Stormwater Management Basins and Borrow Area and placed above the subgrade surface as the first layer of the Final Cover Systems.

4. Topsoil shall be imported material or material excavated from the Stormwater Management Basins and Borrow Area placed above the Cover Soil to support vegetation and minimize erosion of the Vegetated Final Cover System.

5. No. 3 Coarse Aggregate shall be imported aggregate placed above the Cover Soil in the Aggregate Final Cover System, as the Access Road surface, and as otherwise indicated on the Drawings.

6. Crushed Stone shall be used as backfill for vertical gas vents, subbase for drainage structures, access paths, and as pipe bedding material.

7. Riprap shall be used in various stormwater management features as indicated on the Drawings.

C. CONTRACTOR shall be prepared to place and compact fill materials in conjunction with the construction of other components of the Work.

D. The Work of this Section shall include, but not necessarily be limited to:

1. furnishing (if applicable), excavating, loading, transporting, placing, and compacting fill materials; and

2. stockpiling surplus fill material.

E. Fill materials placed and compacted shall conform to the dimensions, lines, grades, sections, and tolerances indicated by the Contract Documents.

F. CONTRACTOR shall be responsible to ensure that earthwork meets the requirements of this Section. Any fill material that does not conform to this Section will be rejected by the CQA Consultant or DEVELOPER and shall be replaced by CONTRACTOR with fill material that conforms to this Section at no cost to DEVELOPER.

1.02 SUBMITTALS

G. 45 days prior to delivering material to the Site, CONTRACTOR shall provide to the CQA Consultant documentation for each off-site borrow source that is proposed for use to demonstrate compliance with the material requirements detailed in this Section and the approved Material Acceptance Protocol (MAP). Final approval of a source for the fill materials will be at the sole discretion of the CQA Consultant based on the information provided by CONTRACTOR.

H. If Work is interrupted for reasons other than inclement weather, then CONTRACTOR shall notify DEVELOPER a minimum of 24 hours prior to the resumption of Work.

1.03 CONSTRUCTION QUALITY ASSURANCE

A. Construction and testing of earthwork shall be monitored by the CQA Consultant as outlined in the CQA Plan.

B. CONTRACTOR shall be aware of the activities outlined in the CQA Plan and shall account for these activities in the construction schedule. This specifically includes the time required for off-site shipment and testing of fill materials.

PART 2 PRODUCTS

2.01 EQUIPMENT

A. CONTRACTOR shall furnish, operate, and maintain grading and compaction equipment as is necessary to produce uniform layers, sections, and smoothness of grade for compaction and drainage.

B. CONTRACTOR shall furnish, operate, and maintain miscellaneous equipment such as scarifiers, disc harrows, spring tooth or spike tooth harrows, earth hauling equipment, and other equipment necessary for earthwork construction.

C. The final approval regarding the appropriateness of equipment used for earthwork will be at the sole discretion of the CQA Consultant.

2.02 PREPARED SUBGRADE FILL

A. Prepared Subgrade Fill shall consist of existing or relocated material graded and compacted to achieve the subgrade elevations and grades shown on the Drawings. Prepared Subgrade Fill shall be the material within 12 inches of the design subgrade elevations. Refer to

Section 31 00 00.01 Waste Excavation and Relocation for requirements related to subgrade fill deeper than 12 inches below the design subgrade elevation.

B. Prepared Subgrade Fill shall be competent and provide a firm surface for final cover system construction. Final determination of competent subgrade shall be made by the CQA Consultant based on proof-rolling or other methods proposed by CONRACTOR and approved by the CQA Consultant.

2.03 STRUCTURAL FILL

A. Structural Fill shall consist of relatively homogeneous soil that is free of debris, foreign objects, excess silt, excess roots, and excess organics.

B. Structural Fill may be material excavated from the Stormwater Management Basins and Borrow Area or imported fill.

C. Structural Fill shall meet the Unified Soil Classification System (USCS) classification for GW, GP, GC, GM, SM, SW, SP, SC, CL, or any combination thereof as determined in accordance with ASTM D2487, and shall have a maximum PI of 25, as determined in accordance with ASTM D4318.

D. Structural Fill shall have no particles larger than 6 inches in diameter as determined by visual inspection by the CQA CONSULTANT.

2.04 COVER SOIL

A. Cover Soil shall consist of suitable, relatively homogeneous soil imported from a licensed commercial source or excavated from the Stormwater Management Basins or Borrow Area that is free of debris, foreign objects, excess roots, and excess organics.

B. Suitability of Cover Soil shall be determined by the CQA CONSULTANT based on geotechnical and chemical conformance testing described in the CQA Plan.

2.05 TOPSOIL

A. Topsoil shall be a sandy loam, silt loam, or loam as defined by USDA (U.S. Department of Agriculture).

B. Topsoil shall consist of relatively homogenous soil that is free from refuse, materials toxic or otherwise deleterious to plant growth, subsoil, woody vegetation and stumps, roots, brush, clay lumps or similar objects. Sod and/or herbaceous growth need not be removed but shall be thoroughly broken up and mixed with the soil during handling or manufacturing operations. Manufactured topsoil shall consist of a mineral component and amendments as needed to meet the requirements of this Section.

C. Topsoil shall be from a prequalified source and shall demonstrate conformance with the chemical testing requirements described in the CQA Plan. A source will be considered prequalified at the CQA Consultant's discretion and a review by the NJDEP Bureau of

Sustainable Waste Management based on an evaluation of source background information and historical chemical testing results. Each prequalified topsoil source will be subject to conformance chemical testing described in the Material Acceptance Protocol.

D. Topsoil from excavated from the Stormwater Management Basins and Borrow Area have been evaluated by the Developer prior to construction and do not require further prequalification or conformance testing.

E. Topsoil shall conform to the following requirements:

1. pH between 5.8 and 7.0
2. Soluble salts (conductivity) less than 0.5 millimhos per centimeter
3. Particle size gradation shall be as follows

Screen or Sieve Size	Percent Passing by Weight
2-in.	100
1-in.	85 – 100
¼-in.	65 – 100
No. 200	≤ 40

4. Organic content by weight shall not be less than 3% or more than 7%

F. Topsoil shall be tested for the following nutrients and the results reported to the CQA CONSULTANT: nitrogen, ammonia-n, nitrate-n, total kjeldahl nitrogen, phosphorus, calcium, magnesium, and potassium.

G. DEVELOPER will furnish topsoil for the CONTRACTOR's use for this Work.

2.06 NO. 3 COARSE AGGREGATE

A. If Coarse Aggregate is made from quarry processed, virgin aggregate, it shall be crushed dolomite, limestone, gneiss, granite, or trap rock free from coatings of clay, clay clods, silt, plant matter, poor durability particles, and other objectionable materials such as debris, refuse, cinders, and slag.

B. No. 3 Coarse Aggregate shall conform to the New Jersey Department of Transportation (NJDOT) Standard Specifications for Road and Bridge Construction 2019 requirements for No. 3 Coarse Aggregate of Section 901.03.

2.07 CRUSHED STONE

A. If Crushed Stone is made from quarry processed, virgin aggregate, it shall be crushed dolomite, limestone, gneiss, granite, or trap rock free from coatings of clay, clay clods, silt,

plant matter, poor durability particles, and other objectionable materials such as debris, refuse, cinders and slag.

B. Crushed Stone shall conform to the New Jersey Department of Transportation (NJDOT) Standard Specifications for Road and Bridge Construction 2019 requirements for No. 57 Coarse Aggregate of Section 901.03.

2.08 RIPRAP

A. Riprap shall be as described in Section 901.08 of the New Jersey Department of Transportation (NJDOT) Standard Specifications for Road and Bridge Construction 2019.

B. Furnish riprap with a D_{50} and/or nominal size range noted on the Drawings.

PART 3 EXECUTION

3.01 GENERAL FILL REQUIREMENTS

A. Fill materials shall be placed and compacted to the lines and grades shown on the Drawings.

B. No frozen or thawing fill materials shall be placed or compacted. Fill materials shall be placed only on dry, unfrozen subgrade surfaces.

C. In areas adjacent to structures and utilities as shown on the Drawings, compaction equipment shall be restricted at the discretion of the CQA Consultant.

D. The surface of filled areas at other locations shall be within plus or minus one inch of elevations shown on the Construction Drawings unless a closer tolerance is necessary to meet requirements of other Sections of the Specifications or meet requirements shown on the Drawings.

3.02 PREPARED SUBGRADE FILL

A. Prepared Subgrade Fill shall be placed to the lines and grades shown in the Drawings.

B. Prepared Subgrade Fill shall be the material within 12 inches of the design subgrade elevations. Refer to Section 31 00 00.01 Waste Excavation and Relocation for execution requirements for subgrade fill deeper than 12 inches below the design subgrade elevation.

C. Where top-of-subgrade is established by excavation in competent ground, subgrade may be established without over excavation and replacement. Final determination of competent ground shall be made at the discretion of the CQA Consultant based on proof-rolling.

D. Where top of subgrade is established by excavation and existing subgrade material is deemed not competent by the CQA Consultant and subgrade must be established by over-excavation and replacement, material meeting the material and execution requirements for Structural Fill shall be used as backfill.

E. Where top of subgrade is established by filling, place Prepared Subgrade Fill in controlled lifts that result in a compacted lift thickness of 12 inches or less. Compact surface with a minimum of four passes of an approved smooth-drum roller or padded-foot compactors. One pass shall be defined as compaction equipment passing forwards and backwards over a given location.

F. CONTRACTOR shall finish each day's work with a smooth-drum roller to create a smooth surface, free from ruts or indentations, which will minimize moisture penetration. The area shall be left in a manner to promote runoff to a designated collection and removal point at the end of each day.

3.03 STRUCTURAL FILL

A. Structural Fill shall be placed in loose lifts that result in a compacted lift thickness of 12 inches or less. Compact surface with a minimum of six passes of an approved smooth-drum roller or padded-foot compactors. One pass shall be defined as compaction equipment passing forwards and backwards over a given location.

B. Compaction using a walk-behind vibratory compactor or hand compaction of material shall be used in locations where larger compaction is inappropriate due to limited area. In such areas, place fill in maximum 8-inch, loose layers and compact with mechanical tampers approved by the CQA CONSULTANT. In pipe trenches, each layer of backfill shall be not more than 8 inches in thickness before compaction. Place backfill on both sides of the pipe, simultaneously.

C. Compacted Structural Fill shall be monitored and/or tested by the CQA CONSULTANT as required by the CQA Plan. Should field testing indicate the moisture or density of any portion of a lift of Structural Fill outside of acceptable values, CONTRACTOR shall scarify, moisture condition, and recompact the lift as necessary to bring it into conformance with acceptable moisture and density values.

D. CONTRACTOR shall finish each day's work with a smooth-drum roller to create a smooth surface, free from ruts or indentations, which will minimize moisture penetration. The area shall be left in a manner to promote runoff to a designated collection and removal point at the end of each day.

E. Prior to continuing construction from the previous day's work, CONTRACTOR shall scarify the surface to provide a bond between the layers.

3.04 COVER SOIL

A. Cover Soil shall be placed above the cover system subgrade in a single lift to the thickness and grades shown on the Drawings using low ground-pressure equipment.

B. CONTRACTOR shall operate equipment in such a manner as to prevent sudden acceleration, braking, and/or sharp turns when placing Cover Soil.

C. The required Cover Soil lift thickness shall be verified and documented following placement of the Cover Soil by survey in accordance with Section 01 32 23.

3.05 TOPSOIL

A. Topsoil shall be placed in a single lift to the total thickness required as shown on the Drawings using low ground-pressure equipment.

B. CONTRACTOR shall place soil in a manner that minimizes compaction. Multiple passes by spreading equipment should be avoided when placing Topsoil.

C. CONTRACTOR shall apply fertilizer and permanently stabilize Topsoil as described in Section 32 93 10 and in the Soil Erosion and Sediment Control (SESC) Plan.

D. The required Topsoil lift thickness shall be verified and documented following placement of the Topsoil by survey in accordance with Section 01 32 23.

3.06 NO. 3 COARSE AGGREGATE

A. No. Coarse Aggregate shall be placed to the lines, grades, and cross-sections shown on the Drawings.

B. CONTRACTOR shall place No. 3 Coarse Aggregate in a manner that does not damage or disturbed the underlying soil surface or geosynthetic materials.

3.07 CRUSHED STONE

C. Crushed Stone shall be placed to the lines, grades, and cross-sections shown on the Drawings.

D. Where Crushed Stone is used as subbase for drainage structures, compact Crushed Stone to provide an even and unyielding surface. CONTRACTOR shall place Crushed Stone in a manner that does not damage underlying soil and geosynthetic.

3.08 RIPRAP

A. Riprap shall be placed to the lines, grades, and cross-sections shown on the Drawings.

B. Riprap shall be placed by hand or using equipment in a manner that does not damage the work or materials on which the Riprap is placed and is acceptable to the CQA CONSULTANT.

C. Where Riprap is placed as part of a drainage feature (e.g., downchute, riprap armoring of a diversion berm, etc.) Riprap shall be placed in a manner that does not impede or redirect stormwater in a manner inconsistent with the intent of the design.

3.09 FIELD QUALITY ASSURANCE

A. The CQA Consultant will monitor the placement and compaction of soils in accordance with the CQA Plan.

B. The CQA Consultant reserves the right to perform field CQA testing of soil during placement and compaction, as described below.

1. The minimum testing frequencies for material evaluation and construction quality evaluation are presented in the CQA Plan.
2. Sampling locations will be selected by the CQA Consultant.
3. A special testing frequency will be used at the discretion of the CQA Consultant when visual observations of construction performance indicate a potential problem. Additional testing will be considered when the following occur:
    a. the rollers slip during rolling operation
    b. the lift thickness is greater than specified
    c. the soil is at improper and/or variable moisture content
    d. fewer than the specified number of roller passes are made
    e. dirt-clogged rollers are used to compact the material
    f. the rollers do not have optimum ballast
    g. the degree of compaction is doubtful
4. During construction, the frequency of testing may also be increased by the CQA Consultant in the following situations:
    a. adverse weather conditions
    b. breakdown of equipment
    c. at the start and finish of grading
    d. if the material fails to meet specifications
    e. the work area is reduced

C. Perforations:

1. Perforations in the compacted soil resulting from CQA testing shall be backfilled with similar soil. The soil shall be hand-tamped by CONTRACTOR to the satisfaction of the CQA Consultant.

D. Defective Areas:

1. If a defective area is discovered in the compacted soil, then the CQA Consultant will notify CONTRACTOR who shall proceed to determine the extent and nature of the defect. If the defect is indicated by an unsatisfactory test result, then CONTRACTOR will determine the extent of the defective area by additional tests, observations, a review of records, or other means that CONTRACTOR deems appropriate. If the

defect is related to adverse site conditions, such as overly wet soils or surface desiccation, then CONTRACTOR will define the limits and nature of the defect.

2. After the extent and nature of a defect has been determined, CONTRACTOR shall correct the deficiency to the satisfaction of the CQA Consultant. The cost of corrective actions shall be borne by CONTRACTOR.
3. Additional testing will be performed by CONTRACTOR to verify that the defect has been corrected. This additional testing will be performed and submitted to the ENGINEER before any additional work is allowed in the area of deficiency.

END OF SECTION

SECTION 31 00 00.01
WASTE EXCAVATION AND RELOCATION

PART 1 GENERAL

1.01 SCOPE OF WORK

A. This section includes descriptions of the work necessary for the excavation of municipal solid waste (MSW) or other unclassified waste materials (e.g., batteries, tires, drums, etc.).

B. All work of this Section shall be performed in accordance with the Closure and Post-Closure Care Plan (Closure Plan) approved by the New Jersey Department of Environmental Protection (NJDEP) Division of Sustainable Waste Management (DSWM).

C. Based on the landfill history as understood by the DEVELOPER, non-hazardous MSW waste is present in the landfill. The MSW waste encountered at the landfill will be relocated as needed to achieve the closure design subgrades.

D. Should unclassified waste materials other than MSW waste, including chemicals or hazardous waste materials, be encountered during construction, CONTRACTOR and DEVELOPER shall cease operations immediately and, in consultation with the DSWM, develop a contingency plan to evaluate and manage the material(s).

E. CONTRACTOR shall furnish all labor, materials, tools, supervision, transportation, installation equipment, and incidentals necessary to complete the work specified herein and indicated on the Drawings. The work shall include, but not be limited to:

1. removing and stockpiling existing landfill cover soils on the landfill for use as daily and intermediate cover as agreed by CONTRACTOR and DEVELOPER to be beneficial to the Work;
2. excavating Waste and soil from the landfill to accomplish the grades shown on the Drawings and as specified herein;
3. transporting Waste and soil from the cut areas to the designated fill areas of the landfill;
4. placing daily and intermediate cover over exposed Waste after regrading;
5. controlling and managing stormwater in the Waste excavation and placement areas;
6. controlling litter, dust, odors, and other air emissions in the vicinity of the Waste excavation and placement areas; and
7. providing full Health and Safety protection to on-site construction workers.

F. CONTRACTOR shall be prepared to excavate and relocate waste in conjunction with the construction of other components of the Work.

1.02 SUBMITTALS

A. At least 45 days prior to initiating waste excavation activities, CONTRACTOR shall submit a Waste Excavation and Relocation Plan to the CQA Consultant for review by the CQA Consultant and DSWM. This plan shall address the excavation and regrading procedures that will be used during the Work. The Waste Excavation and Relocation Plan shall include, but not be limited to the topics below.

1. References to and relevant discussion of the Dewatering and Stormwater Control Plan required by Section 31 23 19;
2. A section specifically addressing control of air emissions, including litter, odors, volatile organic compounds (VOCs), and dust. The hierarchy for implementing various cover materials shall be described in detail.
3. A section specifically addressing worker safety and stability during Waste excavation.
4. Identification of a New Jersey licensed hazardous waste transporter responsible for the handling, transport and disposal of hazardous materials that may be encountered during excavation.
5. Identification of a hazardous waste disposal facility responsible to final acceptance of hazardous materials that may be encountered during excavation.
6. Transportation procedures and routes for vehicles relocating Waste to fill areas.
7. Placement and compaction procedures for relocated Waste.
8. Procedures for covering exposed Waste at the end of each working day as required by the conditions of the Closure Plan approval.
9. The approximate maximum area of waste to be exposed daily and proposed source of Daily Cover as described in Part 2.02 of this Section.
10. The proposed materials and substances for odor control as described in Part 2.03 of this Section.
11. Procedures for protecting the subgrade until installation of the final cover system is complete.

B. At least one week prior to the start of waste excavation, CONTRACTOR shall submit written acknowledgement that their key on-site management personnel have reviewed and understood all pertinent aspects of the Waste Excavation and Relocation Plan.

1.03 COMPLIANCE WITH REGULATIONS

A. It is the sole responsibility of the CONTRACTOR to be completely familiar with and to follow all local, state, and federal regulations and conditions of the Closure Plan approval pertaining to the work required in this Section.

1.04 CONSTRUCTION QUALITY ASSURANCE (CQA)

A. Waste excavation and relocation activities will be monitored by the CQA Consultant.

B. CONTRACTOR shall be aware of the activities of the CQA Consultant, as described in the CQA Plan, and shall account for these activities in the construction schedule.

C. CONTRACTOR shall assist the CQA Consultant in every manner necessary for the proper performance of activities set forth in these Specifications and the CQA Plan.

D. Inspections performed by the CQA Consultant in no manner relieve CONTRACTOR of the responsibility to construct all work to conform to the Construction Documents, Closure Plan, and permit conditions. If inspections indicate work does not meet specified requirements, CONTRACTOR shall rework to the satisfaction of the CQA Consultant at a cost borne solely by the CONTRACTOR.

PART 2 PRODUCTS

2.01 WASTE

A. Waste is the existing refuse, debris, and soils located within the landfill. It does not include construction Waste generated by CONTRACTOR during implementation of the work. CONTRACTOR shall be fully aware of the fact that large debris could be encountered in the existing waste mass and will need to be relocated as part of the required excavation, transport, and placement activities.

B. Existing cover soil shall be considered and handled as Waste, except as noted otherwise in these Construction Documents or at the direction of the DEVELOPER.

2.02 DAILY AND INTERMEDIATE COVER

A. Daily Cover and Intermediate Cover shall be a soil or other material identified in the Closure Plan or proposed by the CONTRACTOR and approved by the DEVELOPER and DSWM used to cover exposed waste in excavation and relocation areas.

B. Daily Cover may be existing cover soil within the landfill or soils obtained from on-site areas, as approved by the DEVELOPER, for use in covering a working face that will continue to be excavated or graded or on temporary stockpile slopes. Daily and Intermediate Cover sourced from the existing landfill cover soil shall be free from waste.

C. If on-Site soils are not available for use, CONTACTOR shall use material meeting the requirements for Cover Soil outlined in Section 31 00 00 of the Specifications or an alternative material approved by the CQA Consultant and DEVELOPER.

2.03 ODOR CONTROL SUBSTANCES

A. CONTRACTOR may utilize substances as approved by the DEVELOPER such as chemicals or soil amendments intended to control odors during waste excavation and

grading activities.

B. Odor control chemicals shall include odor neutralizing chemicals but shall not be deodorizers or masking agents. Odor neutralizing chemicals shall be applied in the form of solids, foam, or large droplets. Aerosols or gases shall not be used.

PART 3 EXECUTION

3.01 FAMILIARIZATION

A. Prior to implementing any of the work described in this Section, CONTRACTOR shall become thoroughly familiar with the Site, the Site conditions, and all portions of the work falling within this Section.

B. Prior to implementing any of the work in this Section, CONTRACTOR shall carefully inspect the installed work of all other Sections and verify that all work is complete to the point where the work of this Section may properly commence without adverse impact.

C. CONTRACTOR shall perform all Waste excavation and relocation work in strict accordance with their submitted Health and Safety Plan.

3.02 DAILY AND INTERMEDIATE COVER

A. In accordance with the approved Closure Plan, exposed waste will be covered by 6 inches of Daily Cover at the end of each day. A minimum of 12 inches of Intermediate Cover shall be applied to all waste exposed for any period exceeding 24 hours and extending up to 6 months. Thereafter, the Final Cover System shall be constructed and maintained over the waste material.

B. Daily and Intermediate Cover are not required in areas that have reached design subgrade elevations and will be covered with Cover Soil (defined in Section 31 00 00) prior to the end of that working day.

C. CONTRACTOR may propose alternative methods for daily cover for approval by the DEVELOPER and DSWM.

3.03 ODOR CONTROL

A. CONTRACTOR shall be responsible for control of odors at the Site during waste excavation and grading activities. Determination of adequacy of the CONTACTOR's odor control measures shall be at the discretion of the DEVELOPER.

B. CONTRACTOR shall schedule waste excavation to the extent practicable such that final grades are achieved and cover soils are placed at the end of each working day.

C. In the event that final grades and or placement of permanent interim cover soils cannot be achieved at the end of each working day, DEVELOPER may approve the CONTRACTOR to place Daily Cover over limited areas to control odor.

D. CONTRACTOR shall apply additional odor mitigation measures during waste excavation activities as necessary to control odors. The additional odor controls may include, but are not limited to:

1. Scheduling of work around potentially adverse weather (e.g., avoiding work during hot and/or humid weather);
2. Application of odor control substances as defined in Part 2.03 directly to the subject area;
3. Continuous misting or fine spay of water with and/or without odor neutralizing liquid amendments; or
4. Application of compost or yard waste to the waste surface to filter odors.

3.04 WASTE EXCAVATION

A. CONTRACTOR shall excavate Waste to the grades shown on the Drawings. If, during the waste-removal process, the excavation is deemed unsafe by CONTRACTOR or DEVELOPER, or air monitoring criteria are exceeded, then excavation activities in the subject area shall be temporarily halted. The CQA Consultant and CONTRACTOR will convene within one working day to assess the situation. Following the meeting, a decision will be reached to either reconfigure the excavation (e.g., flatten slopes) or modify work practices.

B. In general, CONTRACTOR shall expose Waste in relatively small sections (typically less than one to three acres at a time) to preclude uncovered waste from creating an environmental or public health nuisance or creating a safety hazard. In addition, CONTRACTOR shall sequence the work to such that excavated Waste is immediately transported for placement and compaction in its final location.

C. Contractor shall take necessary measures to maintain dry conditions within the Waste excavation area and to prevent stormwater run-off from contacting exposed Wastes

D. CONTRACTOR shall not stockpile or place Waste outside the limit of the active excavation or placement areas without prior approval of the Developer. The Contractor shall not stockpile Waste in the excavation or placement areas in a manner that decreases the stability of the landfill slopes.

E. Once subgrade reaches the grades shown on the Drawings the excavated area shall be covered in accordance with the conditions of the Closure Plan approval prior to the end of the working day.

F. Placement of additional cover materials, dust suppressants (or water), and/or VOC or odor control chemicals (e.g., odor control foam) shall be performed by CONTRACTOR as needed to satisfactorily control litter, dust, VOCs, and odors. Groundwater or surface water from the site shall not be used unless pre-approved by the Developer.

3.05 WASTE TRANSPORTATION

A. CONTRACTOR shall use vehicles and/or temporary haul routes that preclude excavated Waste or leachate spilling in areas that are not part of the active excavation area. CONTRACTOR shall use only the designated haul routes, as set forth in the approved Waste Excavation and Relocation Plan, unless otherwise pre-approved by the CQA Consultant.

B. CONTRACTOR shall use vehicles and procedures that minimize the generation of air emissions (e.g., litter, dust, VOCs, odors) during Waste transportation activities.

3.06 WASTE PLACEMENT AND COMPACTION

A. CONTRACTOR shall relocate Waste to achieve the subgrade grades indicated on the Drawings.

B. CONTRACTOR shall place and compact waste such that no unsuitable material (e.g., oversized particles, soft or wet conditions, etc.) remain within two feet of the design subgrade elevations.

C. Compaction equipment used for compacting Waste shall be heavy static tamping foot compactors (e.g., Caterpillar 815B, 825C, 816B, or 826C) with operating weight and kneading action that achieves the required compaction to the satisfaction of the Developer.

D. Where subgrade is established by excavation in competent ground, subgrade may be established without over excavation and replacement. Final determination of competent ground shall be made at the discretion of the Developer based on observation of proof-rolling, as required by the CQA Plan.

E. Where top of subgrade is established by excavation and existing subgrade material is deemed not competent by the Developer, subgrade must be established by over-excavation and replacement. Material meeting the material and execution requirements of Section 31 00 00 for Structural Fill shall be used as backfill, unless otherwise approved by the Developer.

F. Where subgrade is established by filling, the Contractor shall place the Waste in continuous layers and compact in accordance with this Section, making grade changes gradual and blending slopes into level areas. Relocated Waste shall be placed in controlled lifts that result in a compacted lift thickness of 12 inches or less. Each lift shall be compacted using a minimum of two full-coverage compaction passes or until the material is compacted to the satisfaction of the Developer. A single pass is defined as traveling both forward and backward over a particular location.

G. The Contractor shall excavate pit(s) within the designated landfill areas and bury any large (greater than 36 inches in any dimension) Waste objects into the pit(s) to ensure that the large object(s) will not damage the final cover system.

H. In all cases, it is the sole responsibility of the Contractor to use equipment and methods

such that no damage occurs to existing features or work that has already been performed.

3.07 UNCLASSIFIED MATERIALS

A. If an unknown material is discovered, CONTRACTOR shall cease immediately and instruct all unnecessary personnel to clear the immediate area surrounding the waste. The CONTRACTOR shall then initiate air monitoring procedures per its and/or the DEVELOPER's Health and Safety Plan. CONTRACTOR and DEVELOPER shall notify DSWM and, in consultation with DSWM, develop a contingency plan to evaluate and manage the material(s) prior to any additional action.

B. Hazardous waste shall be excavated, stockpiled, packaged and disposed of in accordance with NJAC 7:26.

3.08 CHARACTERIZATION OF UNCLASSIFIED WASTE

A. Characterization of unclassified waste shall be performed in the field by the CONTRACTOR. CONTRACTOR shall notify the DEVELOPER when unclassified waste materials are encountered and shall evaluate the unclassified materials.

B. The DEVELOPER's evaluation of the waste shall include the following:

1. Visual observation of the unclassified waste materials for characteristics of hazardous waste. Readily identifiable characteristics of hazardous waste may include:

   a. Intact filled or partially filled drums;

   b. Batteries; and

   c. Materials labeled or otherwise readily identifiable as hazardous waste.

2. Unclassified waste characterized as non-hazardous shall be excavated and relocated within the landfill.

3. Waste characterized as hazardous shall be immediately isolated for further evaluation by the DEVELOPER and handling by the licensed site hazardous waste transporter.

3.09 WATER CONTROL AND DEWATERING

A. At all times during construction, CONTRACTOR shall provide and maintain proper equipment and facilities to prevent and/or remove water entering the Waste excavation or relocation area so as to obtain and maintain safe and observable working conditions.

B. CONTRACTOR shall be fully responsible for minimizing and controlling groundwater and surface water run-off and run-on around the Waste excavation or relocation area.

C. CONTRACTOR shall control stormwater in accordance with their approved Dewatering and Stormwater Control Plan prepared in accordance with Section 31 23 19.

D. Surface water (e.g., groundwater, precipitation, construction water, or run-on) that comes

into contact with exposed Waste, as well as liquid that seeps from the Waste, shall be considered leachate and shall be handled in accordance with the approved Dewatering and Stormwater Control Plan prepared in accordance with Section 31 23 19.

3.10 PROTECTION OF WORK

A. CONTRACTOR shall use all means necessary to protect all prior work, including all materials and completed work of other Sections.

B. In the event of damage, CONTRACTOR shall immediately make all repairs and replacements necessary to the approval of DEVELOPER and CQA Consultant at a cost borne solely by CONTRACTOR.

END OF SECTION

SECTION 31 10 00
SITE CLEARING

PART 1 GENERAL

1.01 SCOPE OF WORK

A. CONTRACTOR shall furnish all labor, materials, tools, supervision, transportation, installation equipment, and incidentals necessary to complete the Work specified herein and shown on the Drawings. The Work shall include, but not be limited to clearing and grubbing the work area of tree stumps and grass, shrubs, brush, and incidental debris.

B. CONTRACTOR shall manage cleared vegetation as described in this Section and in the Closure and Post-Closure Care Plan (Closure Plan) approved by the New Jersey Department of Environmental Protection (NJDEP) Bureau of Sustainable Waste Management (BSWM).

C. Should vegetation or other debris be removed and disposed off-Site, CONTRACTOR shall load, transport, and dispose of debris in accordance with local, state and federal rules and requirements.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.01 CLEARING AND GRUBBING

A. CONTRACTOR shall clear all areas that are required for access to the Site and execution of Work and shall remove other incidental debris shown on the Drawings and approved by the CQA Consultant or DEVELOPER. Appropriate erosion and sedimentation controls shall be in place in all areas to be cleared and grubbed.

B. CONTRACTOR shall clear, grub, chip, and stockpile vegetation as follows:

1. Trunks and branches shall be cut off 6 inches above the ground surface and managed as proposed by the CONTRACTOR and approved by the DEVELOPER.

2. Stumps and roots in areas accepting 2 ft or more of fill may be left in place. Stumps and roots in excavation areas or areas with less than 2 ft of fill shall be removed, chipped, and stockpiled outside of the landfill closure area.

C. If weather conditions are unsuitable for clearing and grubbing, as determined by the Developer, then CONTRACTOR shall cease operations until permission to resume operations is obtained from the Developer.

3.02 SOIL STRIPPING

A. CONTRACTOR shall strip existing cover soil for use as daily cover or grading fill beneath the Final Cover System in accordance with Section 31 00 00.01.

B. CONTRACTOR shall segregate debris or other unsuitable materials from the existing cover soil to the satisfaction of the Developer. Such materials may be used as grading fill beneath the Final Cover System.

3.03 WASTE CHARACTERIZATION AND DISPOSAL

A. Debris generated from clearing that is to be disposed offsite shall be stockpiled at a location within the limit of the landfill designated by the Developer for waste characterization.

B. CONTRACTOR shall propose a disposal facility acceptable to the DEVELOPER.

C. Characterization sampling and analyses will be performed by CONTRACTOR in accordance with the requirement of the approved disposal facility.

D. Following characterization, CONTRACTOR shall load out and transport vegetation and debris for off-site disposal at the approved disposal facility.

END OF SECTION

SECTION 31 23 19
CONSTRUCTION DEWATERING AND STORMWATER CONTROL

PART 1 GENERAL

1.01 SCOPE OF WORK

A. CONTRACTOR shall furnish all materials, implements, machinery, equipment, tools, supplies, transportation, labor and supervision required to perform and maintain all construction dewatering and stormwater control as required throughout the duration of the Work.

B. Contractor shall prepare a Construction Dewatering and Stormwater Control Plan to address means and methods for managing liquids during construction.

C. Construction dewatering and stormwater control shall include (i) characterizing, managing, and if required, disposing of off-site existing impounded stormwater, (ii) minimizing stormwater contact with disturbed waste and soil by redirecting stormwater runoff from undisturbed areas to an approved discharge location and (iii) controlling, removing, containerizing, characterizing, and disposing off-site of stormwater runoff in contact with disturbed waste and soil (i.e., contact stormwater or leachate).

D. CONTRACTOR shall be solely liable for additional costs and/or delays incurred due to completion of Work in stages to allow for control of stormwater in accordance with the Construction Documents.

1.02 SUBMITTALS

A. At least 45 days prior to the start of the Work, CONTRACTOR shall submit to the Developer a Construction Dewatering and Stormwater Control Plan for review by the Developer and Division of Sustainable Waste Management (DSWM). The plan shall incorporate measures to provide stormwater control and dewatering. The Construction Dewatering and Stormwater Control Plan shall include, but not necessarily be limited to, descriptions of the Contactor's proposed means and methods, including necessary equipment, to complete the following:

   1. characterize, treat and/or dispose of off-site, or discharge existing liquid impounded at the landfill
   2. divert and discharge stormwater runoff (i.e., non-contact water) and the proposed discharge point(s)
   3. collect, contain, store, and treat and/or dispose contact stormwater (i.e., leachate)

B. The Construction Dewatering and Stormwater Control Plan shall also address sequencing the Work to minimize stormwater entering the Work area.

C. CONRACTOR shall submit to the DEVELOPER and CQA Consultant the following

documentation as it relates to the characterization and disposal of existing impounded liquids or containerized leachate:

1. Prior to characterization, the name and contact information of the proposed disposal facility, the license or operation permit of the facility, and the facility's waste characterization testing requirements
2. Upon receipt by CONTRACTOR, the results of waste characterization testing.
3. At least 7 days prior to treating and/or transporting waste off-site for disposal, the completed waste profile.
4. Upon disposal at the approved disposal facility, return waste manifests.

1.03 GENERAL REQUIREMENTS

A. Any liquid coming in contact with waste shall be considered leachate and shall be managed as such in accordance with the Closure Plan, conditions of the Closure Plan approval issued by DSWM, the Contractor's approved Construction Dewatering and Stormwater Control Plan.

B. Excavation and cover system installation occur in areas that may be subjected to runoff from surrounding areas. Therefore, CONTRACTOR shall provide and maintain at all times, before and during construction, ample means and devices, including all necessary equipment, power and labor, to pump, bail or otherwise promptly remove and properly dispose of all water entering or found in the landfill, excavations, trenches or other parts of work. Excavation and structures must be kept dry until all work to be built therein is completed.

C. CONTRACTOR shall maintain throughout the duration of the Work, ample provisions to prevent flotation of utilities, pipes and structures and shall be responsible for any damage caused by water.

D. It shall be the CONTRACTOR's responsibility to assure that Construction Dewatering operations are conducted so as not to affect adjacent structures. CONTRACTOR shall be responsible for any damage to adjacent structures, engineering controls, monitoring wells, etc.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.01 GENERAL

A. CONTRACTOR shall provide continuous pumping if required to prevent damage to the Work.

B. CONTRACTOR shall take all reasonable measures to minimize stormwater entering the Work area in order to minimize the volume of water to be removed from the Work area.

C. Water removed from the excavations shall be containerized and treated and/or disposed of off-site at the discretion of the DEVELOPER.

D. CONTRACTOR shall supply all piping, hose or trucking necessary to remove, collect, relocate and/or containerize, transport and dispose water. Where temporary piping crosses access roads, CONTRACTOR shall install a rigid sleeve and construct a berm over the pipe to provide continued vehicular access across the pipe.

E. Construction Dewatering shall conform to the latest version of New Jersey Department of Transportation "*Soil Erosion and Sediment Control Standards*".

F. CONTRACTOR shall not use proposed permanent stormwater management features (i.e., stormwater management basins) to collection, store, treat, or dispose of leachate.

3.02 TREATMENT, STORAGE, AND DISCHARGE

A. CONTRACTOR shall containerize and store leachate in accordance with its approved Construction Dewatering and Stormwater Control Plan to facilitate appropriate characterization and treatment and/or disposal.

B. CONTRACTOR shall collect and have analyzed waste characterization samples at a frequency acceptable to the proposed disposal facility and prepare and provide the required waste profile and waste manifests required by the disposal facility and appropriate authorities. The disposal facility shall be acceptable to the DEVELOPER and CQA Consultant.

C. CONTRACTOR shall transport the leachate to the approved disposal facility and provide the DEVELOPER and CQA Consultant with signed return waste manifests from the disposal facility.

END OF SECTION

SECTION 32 93 10
PERMANENT VEGETATION

PART 1 GENERAL

1.01 SCOPE OF WORK

A. CONTRACTOR shall furnish all labor, materials, tools, supervision, transportation, installation equipment, and incidentals required to establish permanent vegetative stabilization within disturbed areas in accordance with the Construction Documents.

B. Work described in this Section shall be performed, as applicable, in accordance with the *Standard for Permanent Vegetative Cover for Soil Stabilization in the New Jersey Department of Agriculture Standards for Soil Erosion and Sediment Control in New Jersey* (July 2017) (E&S Manual).

1.02 SUBMITTALS

A. At least 60 days before installing permanent vegetation, CONTRACTOR shall submit to the Developer a Soil Amendment and Vegetation Installation Plan describing the materials, equipment, and means and methods for amending the Topsoil and installing permanent vegetation in disturbed areas. The Soil Amendment and Vegetation Installation Plan shall reference the ESC Manual, where applicable, and shall address the following:

   1. Amendment type, intended purpose, application rate, and method for applying the amendment, as needed to address Topsoil deficiencies noted in the laboratory reports in the Material Acceptance Protocol.
   2. Seed mixture source, quantity, and application rate
   3. Manufacturer specifications for the proposed erosion control mat
   4. Mulch type, application rate, and method for installing and securing mulch
   5. Fertilizer type and application rate

B. At least 14 days prior to delivering the product to the Site, CONTRACTOR shall provide the CQA Consultant and DEVELOPER data sheets on the proposed erosion control mat.

PART 2 PRODUCTS

2.01 SEED MIX

A. A permanent seed mixture shall be applied throughout disturbed areas.

B. The seed mixture shall be the Non-Roadside Pinelands Mixture of the E&S Manual.

2.02 FERTILIZER

A. Water-soluble, quick-release fertilizer with a nutrient analysis (ratio of sources of Nitrogen:

Phosphorous: Potassium) not be greater than 10-10-10.

2.03 MULCH AND EROSION CONTROL MAT

A. Mulch shall be wood fiber, paper fiber, hay, or straw meeting the material quality standards of the E&S Manual.

B. Erosion Control Mat shall be double-sided Curlex II, manufactured by American Excelsior Company, or equal approved by CQA Consultant.

PART 3 EXECUTION

3.01 SEEDING AND PLANTING

A. Seedbed shall be prepared and fertilized in accordance with the E&S Standards.

B. Seed shall be applied on clean bare soil.

C. Seed should be applied at the rates and using methods described in the E&S Standards for the specified seed mixture.

D. Immediately following seeding, the seeded area shall be lightly raked to ensure proper seed-soil contact. Following seeding, the area shall be mulched to conserve moisture.

3.02 MULCH AND EROSION CONTROL MAT

A. Mulch shall be installed at the rates and methodology for the selected much described in the E&S Standards.

B. Erosion Control Mat shall be installed either 48 hours prior to or within 48 hours after seeding operations have been completed in the work areas.

C. Erosion Control Mat shall be placed on a smooth surface that is free of trash, ruts, and rocks. Erosion control mat shall be placed flat and shall conform to the contours of soil surface.

D. Erosion Control Mat to be placed on slopes shall be installed in accordance with the manufacturer's instruction and as follows:

1. Anchor trenches shall be located at the crest and the toe of the slope. The anchor trench at the crest shall be located 1 ft. from the edge of the slope. The geometry of the anchor trench, type of fastener, fastener spacing, and method of construction of the anchor trenches shall be in accordance with the manufacturer's instructions.

2. Erosion mat shall be unrolled as directed by the manufacturer. Adjacent panels of erosion mat shall be installed with a minimum overlap of 4 in. Fastening of the erosion mat shall begin in the toe anchor trench and shall progress upslope to the crest anchor trench. Spacing of fasteners shall be in intervals of 3 to 5 ft. vertically upslope. Horizontal spacing of fasteners shall be in accordance with the manufacturer's

instructions. Backfill shall be placed in anchor trenches over fasteners as construction proceeds.

E. Erosion Control Mat shall be properly shingled, overlapped, and secured to prevent water flow beneath the erosion control mat.

F. Mulch or erosion control mat that has, at the discretion of the CQA Consultant, been rotted or otherwise degraded prior to the establishment of permanent vegetation shall be replaced by the CONTRACTOR at no cost to DEVELOPER.

3.03 ESTABLISHMENT AND PROTECTION

A. CONTRACTOR shall maintain disturbed areas until such time as vegetation has become permanently established. This may include making repairs due to erosion, reseeding, remulching, or a combination thereof.

B. Establishing permanent vegetation means the following:

1. There exists a minimum of 80 percent vegetative cover with the specified seed mixture for the seeded area and mowed once, as defined in the E&S Manual

2. There are no bare areas (defined as less than 50 percent vegetation coverage) of greater than 10 square feet.

3. There are no erosion rills deeper than 1 inch.

C. CONTRACTOR shall protect established vegetation from damage throughout the course of construction. Any damaged vegetation shall be replaced by the CONTRACTOR at no cost to the DEVELOPER.

END OF SECTION

Attachment D

MASER CONSULTING P.A.

Engineers
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Surveyors
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January 20, 2020
VIA E-MAIL

Donna Markulic, Township Administrator
Manchester Township
One Colonial Drive
Manchester, NJ 08759

Re: Delineation of the Landfill Boundary
Manchester Township, Ocean County, New Jersey
MC Project No. MCT-044A

Dear Ms. Markulic:

Maser Consulting completed a geophysical evaluation of existing landfill located at 1501 Highway 70, Manchester, Ocean County, New Jersey, 08759. These efforts were performed to evaluate the presence of anomalies representative of buried landfill materials. The following is a summary of our efforts and findings:

1.0 INTRODUCTION

Maser Consulting completed a geophysical evaluation of existing Whiting Recycling Center located at 1 Sams Pitt Road, Manchester, Ocean County, New Jersey, 08759 on October 9th and 10th 2019. To further establish confidence in our findings, we returned to site for subsurface exploration on January 3rd, 2020 with the areas of investigation noted in the subject area illustrated in the enclosed Figure 1.

2.0 METHODOLOGY

2.1 GPR Surveying

GPR surveys were conducted in accessible portions of the subject area using a GSSI SIR-4000 instrument with a 350-megahertz antenna. Site conditions allowed for a maximum exploration depth of 15.0 feet below existing surface grade. GPR data collection was limited to accessible regions of the subject area. Parts of existing property was overgrown with thick vegetation and scrub brush along with large debris. Using an integrated survey wheel, distance normalization was completed in-field for calibration of various surfaces and terrain encountered during the investigation. GPR profiles were conducted over specific anomaly locations. Collected data was post-processed using RADAN software.

2.2 EM Surveying

EM metal-detection surveying was performed using a Geonics EM61-MK2 time-domain field instrument with integrated GPS system. Anomalies are typically associated with objects such as metal, debris, pipes, buried tanks, buried drums, and assorted intact structural materials of buildings/dwellings. The instrument

was calibrated to local soil conditions prior to surveying. The survey was performed using a tow-array utilizing an ATV vehicle and F-150 truck. Collected data was post-processed using DAT61 and Surfer contouring software.

2.3 Subsurface Exploration

Test Pits were completed using a backhoe down to a depth of 6.0 (+/-) feet to evaluate the presence of debris associated with landfill materials as part of our geophysical ground-truthing. In areas not accessible to backhoe, Maser Consulting completed hand auger borings. Exploration locations are illustrated on the enclosed Figure 1. According to our observations, the exploration areas were congruent with our geophysical findings.

3.0 GEOPHYSICAL OBSERVATIONS

Geophysical results indicated a region on the subject property have subsurface anomalies representative of metal debris and materials associated with municipal waste and landfill materials. See enclosed Figure 1 outlining the area of delineated landfill materials using geophysical techniques and shallow exploration efforts in green. The area measures approximately 32 acres and is located in the central-east-central region of the subject property.

4.0 CONCLUSIONS

Maser Consulting completed a geophysical evaluation of the existing Whiting Recycling Center in the Township of Manchester, Ocean County, New Jersey. Using geophysical techniques in conjunction with ground-truth exploration, buried municipal landfill area was outlined as illustrated in green on the enclosed Figure 1 measuring approximately 32 acres.

If you have any questions or comments, or if we may be of further service, please do not hesitate to contact us.

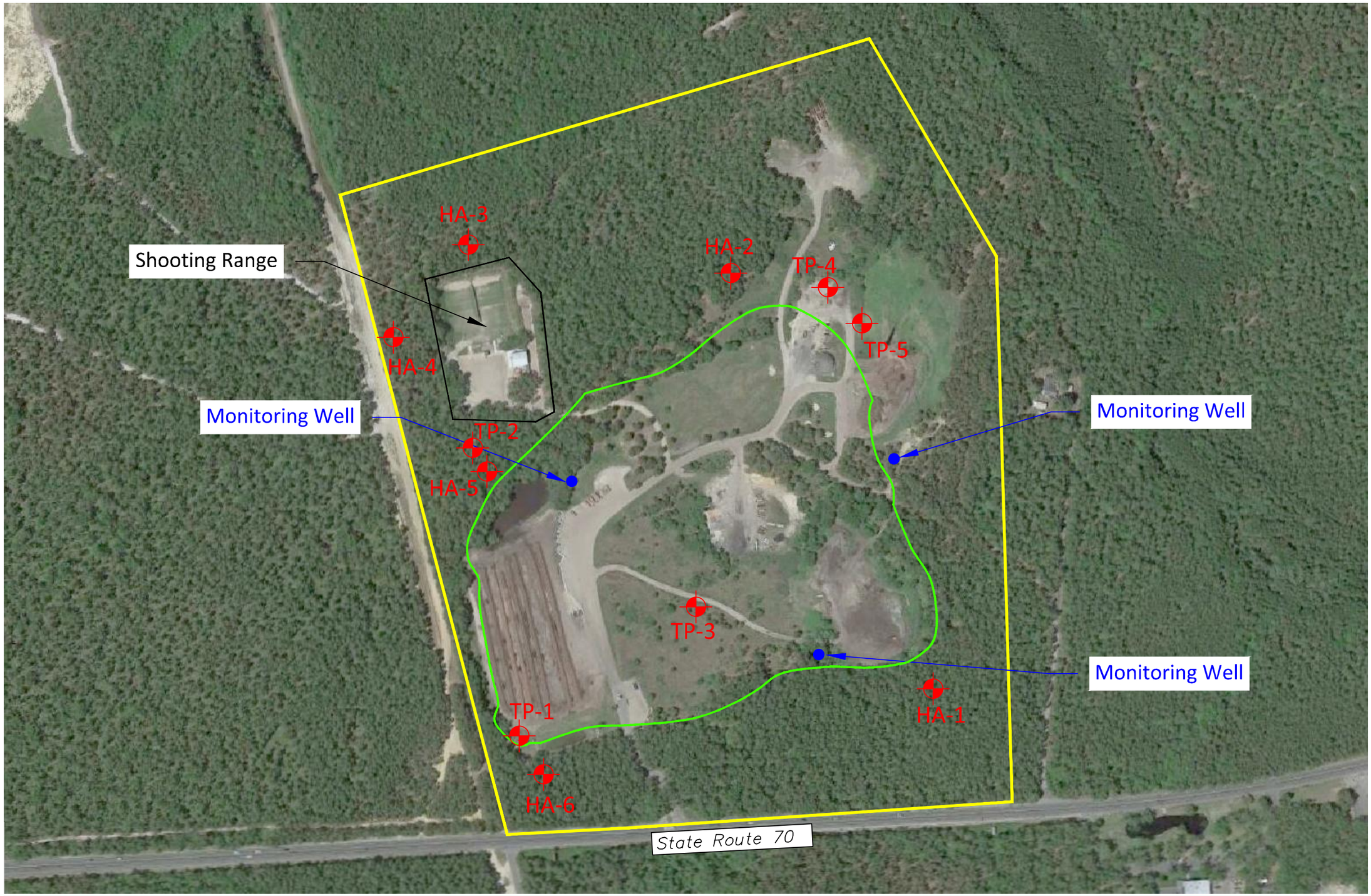
Very truly yours,

MASER CONSULTING P.A.

Joseph Vallo
Geologist

Alexander S. Ross, P.G.
Senior Geophysicist / Associate

Attachments: Figure 1
JWV/ASR/gt
R:\AllOffices\Clinton\Projects\MCT\MCT-044P



Legend:

Subject Property

Monitoring Well

Interpreted Landfill Deposits Boundary

Test Pit/Hand Auger

0 250 500 Feet

1" = 300'

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GEOPHYSICAL EVALUATION

FOR

Manchester Township Landfill
BLOCK 116 LOT 13
1501 HIGHWAY 70
MANCHESTER TOWNSHIP, OCEAN COUNTY, NJ

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2000 Midlantic Drive
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PROJECT NUMBER: MCT-044
DRAWING NAME: MANCHESTER LF BASE MAP FINAL

SHEET TITLE: INTERPRETED EXTENT OF LANDFILL MATERIALS

SHEET NUMBER: FIGURE 1

TER\Mapping\Manchester LF Base Map FINAL.dwg|Manchester Base- DELIVERABLE By: AROSS

Engineers Planners Surveyors Landscape Architects Environmental Scientists

MASER CONSULTING

Site Hydrogeologic Investigation Report

Township of Manchester Former Manchester (a.k.a. Whiting) Landfill

NJDEP Program Interest No. 132555
110 Sam Pitts Road
Block 116, Lot 13
Manchester Township, Ocean County, NJ
08733

October 2020

Prepared For

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MC Project No. MCT-014

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EXECUTIVE SUMMARY

Maser Consulting (Maser Consulting), on behalf of the Township of Manchester ("the Township"), has prepared this Site Hydrogeologic Investigation Report (SHIR) for the property located at 110 Sam Pitts Road, Block 116, Lot 13 (1501 Route 70), Program Interest No. 132555. The subject property consists of 98.64 acres of land containing the former Manchester Township (a.k.a. Whiting) Landfill, the Police Department firing range, salt storage shed, composting site, and residents' recycling center. The Whiting Landfill comprises slightly less than 30 acres of the site. The property is located within the Pinelands Management area.

The Township desires to redevelop the former landfill portion of this under-utilized property with a ground mounted photovoltaic array (solar farm), and recently designated the site as an area in need of redevelopment. The Pinelands Commission also recently voted to certify the Township ordinance for the associated Redevelopment Plan. However, before construction can begin, the landfill must be properly closed, with minimal impacts to human and environmental receptors. To facilitate the SHI a minor landfill disruption application was submitted to the department in accordance with N.J.A.C 13.1E-1 et seq.

This SHIR was performed in general conformance with NJDEP guidance for landfill investigations under the Site Remediation and Solid and Hazardous Waste programs, and is meant to satisfy the NJ Pinelands Commission, which oversees development within the Pinelands.

RECEPTOR EVALUATION

An initial Receptor Evaluation (RE) is included with this report. Potential receptors include: a community wellhead protection area (WHPA) with a 12 year travel time, perennial stream Hurricane Brook and a tributary lying east and south of the site respectively, an area identified as potential vernal habitat in the northwest quadrant of the site, but outside the landfill boundary, and 1 individual supply well located east of the property. Potable well sampling performed at one community and one non community potable well forming the WHPA showed no tested contaminants above drinking water criteria for the most recent data available. The RE is included as **Appendix F**.

LANDFILL GAS

A perimeter landfill gas survey detected methane in the subsurface at several locations along the landfill perimeter. Since the water table intersects the ground surface between the landfill and any human receptors, no off-site receptors should be impacted. Existing structures and construction may be impacted by landfill gas, and a mitigation system may be warranted.

COVER THICKNESS

16 borings were advanced to a depth of 5' (i.e. one macrocore barrel length) across the former face of the landfill. Cover depths ranged from >5' to 4'. In no instance was less than four feet of cover material encountered. The cover fill consisted of native sands, silts and clays. Based on the extent of cover material, no additional fill should be necessary to regrade the site for installation of solar panels.

GROUNDWATER

The 4 existing monitoring wells have been periodically sampled by the Township for NJPDES parameters, although no NJPDES permit is in effect. Based on a review of the last 2 years of data, in conjunction with a recent full spectrum analysis (TAL\TCL+30 and leachate parameters), concentrations of several contaminants have been detected at the site. However, groundwater has been minimally impacted by the landfill, and in fact, contaminants may actually be attenuating beneath it.

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1.0 INTRODUCTION

1.1 PROJECT SCOPE

Site Investigation/ Hydrogeologic Characterization:

Since the landfill was never properly closed, an SI was necessary to determine whether the landfill generated gas, the thickness and permeability of the existing cover, and to characterize the site hydrogeology.

Hydrogeologic Investigation

The hydrogeologic investigation was to consist of slug testing in the existing monitoring well network, following redevelopment. However, the wells had constrictions near the surface preventing introduction of the testing equipment, and restricted flow due to well age. As a result, data from nearby recently installed wells at the Manchester DPW were used to estimate groundwater velocity. Well construction and sampling data were used to prepare groundwater and contaminant concentration contour (isopleth) maps and cross sections. Cross sections were prepared illustrating site lithology down to the boring completion depths using gas boring and monitoring well logs, and are included as sections A-A', across dip, and B-B', along formation strike. Sections are shown on Figure 4, Appendix A.

Groundwater samples were collected using low flow methods, and analyzed for TAL\TCL+30, Chloride, Ammonia Nitrogen, Nitrate-Nitrogen and Sulfate.

1.2 SUMMARY OF RESULTS

Landfill Gas

Several areas of elevated landfill gas readings were recorded, shown on Figure 4. Historic reports indicate that the landfill received vegetative waste for most of its operating history, and exclusively since 1975. No PID responses were noted in any of the borings, nor were any odors or staining observed suspected of deriving from contaminated waste. Consequently, no samples were retained for analysis. No positive pressure was noted in the temporary well casings.

Cover Thickness

16 borings were advanced to a depth of 5' (i.e. one macrocore barrel length) across the former face of the landfill. Cover depths ranged from >5' to 4'. In no instance was less than four feet of cover material encountered. The cover fill consisted of native sands, silts and clays. Boring locations are shown on Figure 5, soil boring logs are included as Appendix C. Photographs of cores are included with the soil logs.

Groundwater

The groundwater showed one synthetic organic compound above the IIA Groundwater Quality Criteria (GWQC) of 0.2 ug/l, hexachlorobenzene, in the two most upgradient wells, MW 2 at 0.04 ug/l, and MW-3 at 0.03 ug/l/ Hexachlorobenzene is a semi-volatile compound that readily adheres to soil particles. It is a by-product of solvent manufacture, used in pesticides, and as a wood preservative. Several Polycyclic Aromatic Hydrocarbons were detected in MW-3, including benzo-a-anthracene, benzo-a-pyrene, and benzo-b-fluoranthene, similarly not expected to be mobile in groundwater. Several piles of waste lumber were observed at the surface in the vicinity of the MW. The occurrence of these compounds may derive from the expedited sampling schedule after redevelopment. Hexachlorobenzene isopleths are shown on Figure 7.

Iron, and Manganese were detected above the IIA GWQC in MW-2 and MW-3. Aluminum was detected in all wells above the IIA GWQC. These three metals are often naturally occurring at elevated concentration in Pinelands aquifers.

A broad suite of TAL metals was detected at concentrations below the IIA GWQC, but above the detection limits. The concentrations of these metals were generally higher in upgradient wells MW-2 and MW-3, with the exception of Sodium in MW-4, which was at 16600 ug/l, the highest concentration detected, but still below the GWQC of 50,000 ug/l. MW-4 is downgradient of the salt shed.

Leachate parameters Chloride, Ammonia, Nitrate, and Sulfate were all detected at concentrations below the IIA GWQC, and highest in upgradient well MW-2.

2.0 PHYSICAL SITE SETTING

2.1 GENERAL

The subject property is located at 110 Sam Pitts Road and Route 70 East, Township of Manchester, Ocean County, and is identified on the Manchester Township tax map as Block 116, Lot 13. United States Geological Survey (USGS) topographic quadrangle mapping , aerial photograph mapping, recent topography, and geologic cross sections for the subject property are provided as Figures 1, 2, 3, and 4 in **Appendix A**.

The subject property consists of 98.64 acres of relatively flat land, with a hummocky central area comprising the former landfill. Based on discussion with senior DPW staff familiar with operations, the landfill was the site of a former sand and gravel pit. Material was excavated to the water table (estimated at 25' by one individual), then backfilled with municipal solid waste. The waste was reportedly restricted to vegetative waste circa 1975.

2.2 SITE TOPOGRAPHY

The base elevation of the subject property is at 151 feet above sea level, rising to 169 feet above msl in the central part of the former landfill. The topography of the subject property is relatively flat, with average slopes of 10' over 275', or 3.6% .

2.3 SITE HYDROGEOLOGY

GEOLOGY

The site is mapped as the Cohansey Formation; an unconsolidated fluvial-near shore marine deposit of Mid Miocene age that forms the bulk of the water supply aquifer beneath the Pine Barrens. The major constituents of Cohansey Formation are described by the US Geologic Survey as "Unconsolidated > Coarse-detrital > Sand *(Bed)Sand, white to yellow with local gravel and clay. Sand is typically medium grained and moderately sorted although it ranges from fine to very coarse grained and from poorly to well sorted. Sand consists of quartz and siliceous rock fragments. Some beds are locally micaceous, and in the Lakehurst area, Ocean County, some beds have high concentrations of "black" sand (pseudorutile) that was once extensively mined. In general, the sand is crossbedded, although the style of crossbedding varies significantly with the paleoenvironment."*

Both the monitoring well logs and borings performed for this study confirm the above lithologic description. The monitoring well driller's logs noted sand with stones (gravel?), overlying more sand, then 5' of sandy clay, over 15' of sand to the completion depth of 50' in MW-1. MW-2 was reported to have sand and clay from 5-25', over sand to 45', MW-3 and MW_4 were reportedly all sand down to 45'. The static water level in each well was reported at 22' below ground surface when installed in 1985, which is a typical level of accuracy for a driller's log. Soil boring logs performed for this study gave additional detail, with several thinner (<1') clay layers identified.

GROUNDWATER

A review of water level measurements taken during quarterly sampling events since 2017 showed an average maximum gradient of 10' over 630' (MW-3 to MW-4), or a gradient of .016. Since the wells were installed in 1985, there was some suspicion that the local permeability was reduced due to iron bacteria fouling. Since Maser had installed monitoring wells approximately 2 years ago at the adjacent DPW site south of Route 70, in the same formation with similar lithology, it was determined that slug tests conducted in those wells would provide more representative results. Using the permeability from slug tests conducted in the monitoring well closest to the Landfill of 2.9 feet/day, the maximum gradient of 0.16, and assuming a porosity of 0.28 gives a flow velocity of 0.17 feet/day.

A sampling event conducted 9/16/2020 collected groundwater from all 4 wells using low flow methods. Summarized analytical results are included as Table 1. Historic summarized analytical results are included as Table 2. Water table contours from December and September, 2019 are presented as Figures 6 and 8.

3.0 SITE INVESTIGATION

3.1 TECHNICAL OVERVIEW

The SI was performed per NJDEP's March 2015 "Technical Guidance for Site Investigation of Soil, Remedial Investigation of Soil, and Remedial Action Verification Sampling for Soil" (version 1.2), modified to investigate landfill gas.

3.2 LANDFILL GAS INVESTIGATION

3.2.1 Soil Borings & Sample Collection – August 31 and September 1, 2020

A track mounted direct push hydraulic sampling rig (geoprobe) was used to commence with the perimeter gas investigation. A 5' long 2" diameter macro core barrel was used to collect soil samples continuously to the top of the water table, generally 20'-25' below ground surface. A geologist logged the core, screening it for potential contamination visually, and with a photoionization detector (PID). 15'-20' of 1" diameter slotted PVC well screen was inserted into the borehole and sealed at the surface with a gas-impermeable cap. Soil gas was allowed to accumulate for several minutes, after which an explosive gas probe was inserted to measure % Methane (CH4), Hydrogen Sulfide (H_2S), Carbon Dioxide (CO_2), and Oxygen (O_2. A photoionization detector (PID), was used to measure total concentration of volatile organic carbon compounds.

At the conclusion of the measurements, the screen was removed, and the borehole backfilled with cuttings and a bentonite slurry grout.

Following completion of the gas survey, 16 boreholes were advanced to determine landfill cover thickness, as shown on Figure 5. A 5' long 2" diameter macro core barrel was used to collect soil samples continuously to the top of waste, or 5', whichever was shallower.

A map of survey and thickness locations is provided as Figure 5 in **Appendix A**. A copy of the soil boring logs is provided in **Appendix B**.

3.2.2 Gas Survey Results

Methane (CH4) concentrations ranged from 0% at multiple locations to 19.5% immediately northeast and adjacent to composting facility. A summary of survey results by location is shown on Figure 5, **Appendix A**.

3.3 SOIL CAP THICKNESS

3.3.1 Soil Borings & Sample Collection – September 1 and 2, 2020

Immediately following the landfill gas survey, the same track mounted direct push hydraulic sampling rig (geoprobe) was used to commence with the cover thickness investigation. A 5' long 2" diameter macro core barrel was used to collect a soil core continuously to the bottom of the boring. A geologist logged the core, screening it for potential contamination visually, and with a photoionization detector (PID). A map of sampling locations is provided on **Figure 5, Appendix A**. A copy of the soil boring logs is provided in **Appendix B**.

3.3.2 Sample Results

A minimum of 4 feet of soil cover was encountered in all the borings. The cover soil consisted of silts, sands, and clay, apparently of local origin. No gas readings were observed.

4.0 GROUNDWATER INVESTIGATION

4.1 Groundwater Sampling

On September 9, a crew was mobilized to the site to redevelop the 4 existing monitoring wells. A surge block was introduced into each monitoring well, but encountered an obstruction near the surface. However, a 1.5" diameter submersible was able to reach the bottom of the wells. Each well was pumped for an hour, with no odors or sheens observed. The wells were unable to recharge sufficiently to keep a continuous flow.

On September 16, a technician from Eurofins Laboratories, Edison NJ (NJDEP Certification No. 12028) collected samples from each well using low flow methods. Samples were analyzed for the following:

- Target Analyte List\Target Compound List plus 30 peaks (TAL\TCL+30)
- Chloride
- Nitrogen – Ammonia
- Nitrogen – Nitrate
- Sulfate

In addition, the following field parameters were recorded:

pH,
Temperature,
Dissolved Oxygen
Conductivity

4.1.1 Sample Results

The groundwater showed one synthetic organic compound above the IIA Groundwater Quality Criteria (GWQC) of 0.2 ug/l, hexachlorobenzene, in the two most upgradient wells, MW 2 at 0.04 ug/l, and MW-3 at 0.03 ug/l. Hexachlorobenzene is a semi-volatile compound that readily adheres to soil particles. It is a by-product of solvent manufacture, used in pesticides, and as a wood preservative. Several Polycyclic Aromatic Hydrocarbons were detected in MW-3, including benzo-a-anthracene, benzo-a-pyrene, and benzo-b-fluoranthene, similarly not expected to be mobile in groundwater. The occurrence of these compounds may derive from the expedited sampling schedule after redevelopment, mobilizing particles in the wells.

Iron, and Manganese were also detected above the IIA GWQC in MW-2 and MW-3. Aluminum was detected in all wells above the IIA GWQC. These three metals are often naturally occurring at elevated concentration in Pinelands aquifers.

A broad suite of TAL metals was detected at concentrations below the IIA GWQC, but above the detection limits. The concentrations of these metals were generally higher in upgradient wells MW-2 and MW-3, with the exception of Sodium in MW-4, which was at 32500 ug/l, the highest concentration detected, but still below the GWQC of 50,000 ug/l. MW-4 is downgradient of the salt shed.

Leachate parameters Chloride, Ammonia, Nitrate, and Sulfate were all detected at concentrations below the IIA GWQC, and highest in upgradient well MW-2.

Groundwater pH was acidic, ranging from 5.2-4.8, which is typical for groundwater in the Pinelands.

A summary spreadsheet of analytical results is provided as **Table 1**. Complete laboratory deliverables are included in **Appendix E**.

5.0 RECEPTOR EVALUATION

5.1 ECOLOGICAL

A survey of receptors using the NJDEP Geoweb utility shows potential vernal habitat northwest of the site, but outside the landfill footprint. Two perennial streams, Hurricane Brook, on the eastern side of the landfill and a tributary to the south are downgradient of the landfill. No sensitive flora or fauna were identified via Geoweb.

5.2 HUMAN

The primary pathway for impacts to human receptors is via drinking water supplied by wells. Two public supply wells are located southeast of the site, and likely drive local groundwater gradients in their direction. Wellhead protection areas (WHPA) are shown on Geoweb, with 5-year capture zones extending to the site's southeastern border. Review of periodic water quality data collected from the two wells show no targeted contaminants above drinking water quality standards.

There are numerous shallow irrigation wells in the Cedar Glen community located south and southeast of the site. Since no targeted contaminants extend to these wells, no action is required.

A Receptor Evaluation map identifying receptors is included as Appendix F.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 LANDFILL GAS MIGRATION

The presence of landfill gas may require mitigation during the proposed redevelopment. The efficacy of venting should be evaluated as a mitigation measure.

6.2 LANDFILL COVER THICKNESS

The landfill cover thickness was determined to be no less than 4' in all borings. As such, there should be sufficient material available to regrade the site to incorporate stormwater best management practices. Following regrading, soil amendments or importation of topsoil capable of supporting vegetation may be required. A major landfill disruption application approval will be necessary to re-grade the site to support the Photovoltaic Array.

6.3 GROUNDWATER INVESTIGATION

The Pinelands Aquifer is classified as Class 1A, and subject to a non-degradation standard. Unfortunately, the presence of the landfill makes complete attainment of the standard unlikely. The presence of hexachlorobenzene above the IIA GWCQ should be investigated further. The complete absence of VOCs, Pesticides, and PCBs , and the reduction in contaminant concentrations in downgradient monitoring wells suggests that biological activity within the landfill may be degrading or sequestering contaminants. Leachate indicator parameters Chloride, Nitrogen Ammonia, Nitrogen – Nitrate, and Sulfate are only mildly elevated, with none exceeding the IIA GWQC.

The current cap appears to support the reduction of contaminants below concentrations that would potentially impact receptors. Maser recommends that periodic ground water sampling be continued to ensure no impacts occur.

Tables

Table No. 1

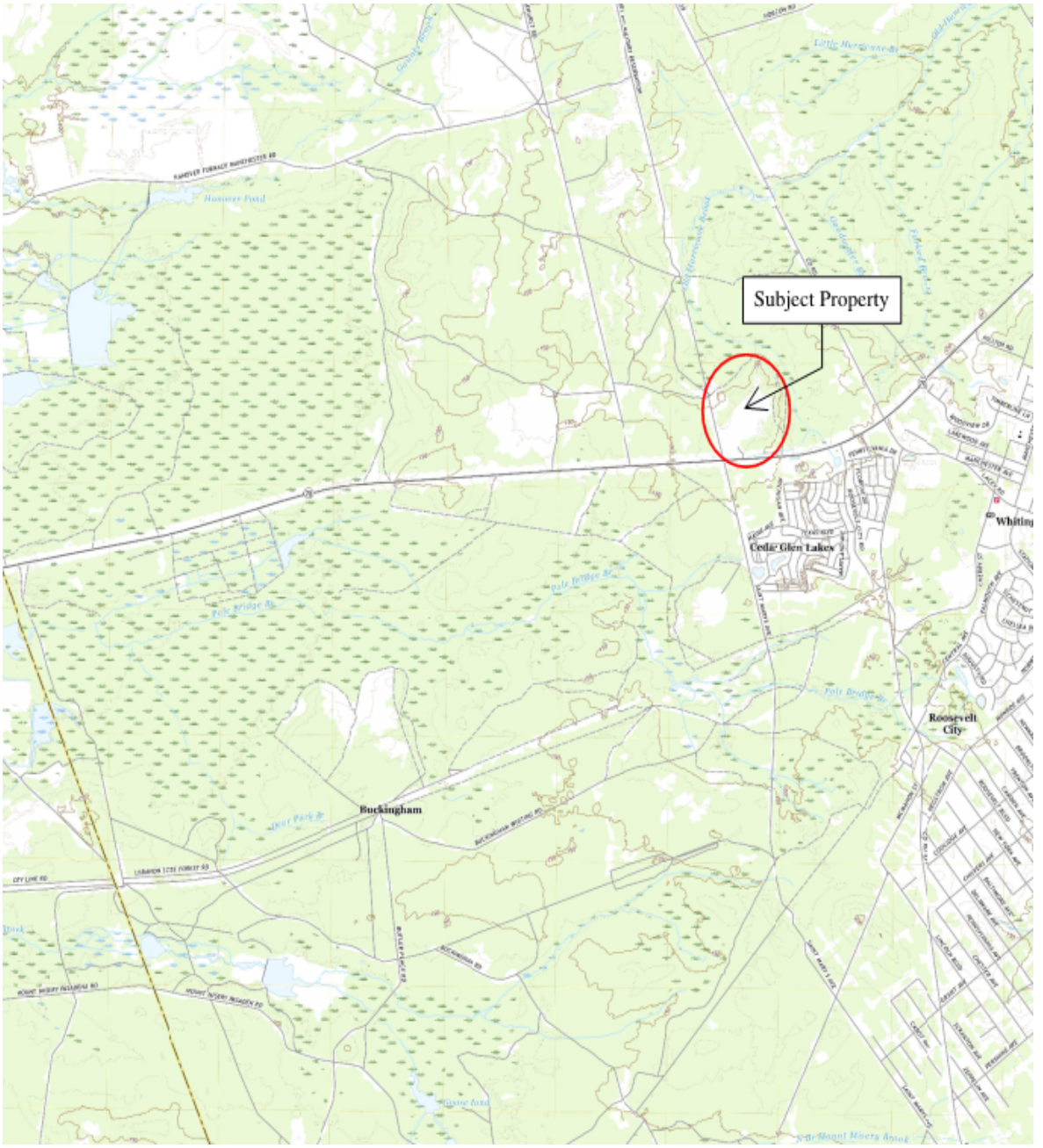
Analytical Results Summary for Groundwater
September 16, 2020

Table No. 2

Historic Analytic Results Summary

APPENDIX A

Project Mapping



MASER CONSULTING P.A.

Consulting, Municipal & Environmental Engineers
Planners ▪ Surveyors ▪ Landscape Architects

APPENDIX A FIGURE 1: LOCATION MAP

SOURCE: EDR TOPOGRAPHICAL MAP REPORT WHITING QUAD, MAP YEAR 2019, SERIES 7.5, SCALE 1:24000

MANCHESTER TOWNSHIP SANITARY LANDFILL

110 SAM PITTS ROAD
TOWNSHIP OF MANCHESTER
OCEAN COUNTY, NEW JERSEY

MC Project No. MCT-048



Subject Property

Monitoring Well

Interpreted Landfill Deposits Boundary

Test Pit/Hand Auger

1" = 300'

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GEOPHYSICAL EVALUATION

FOR

Manchester Township Landfill

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MANCHESTER TOWNSHIP, OCEAN COUNTY, NJ

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2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
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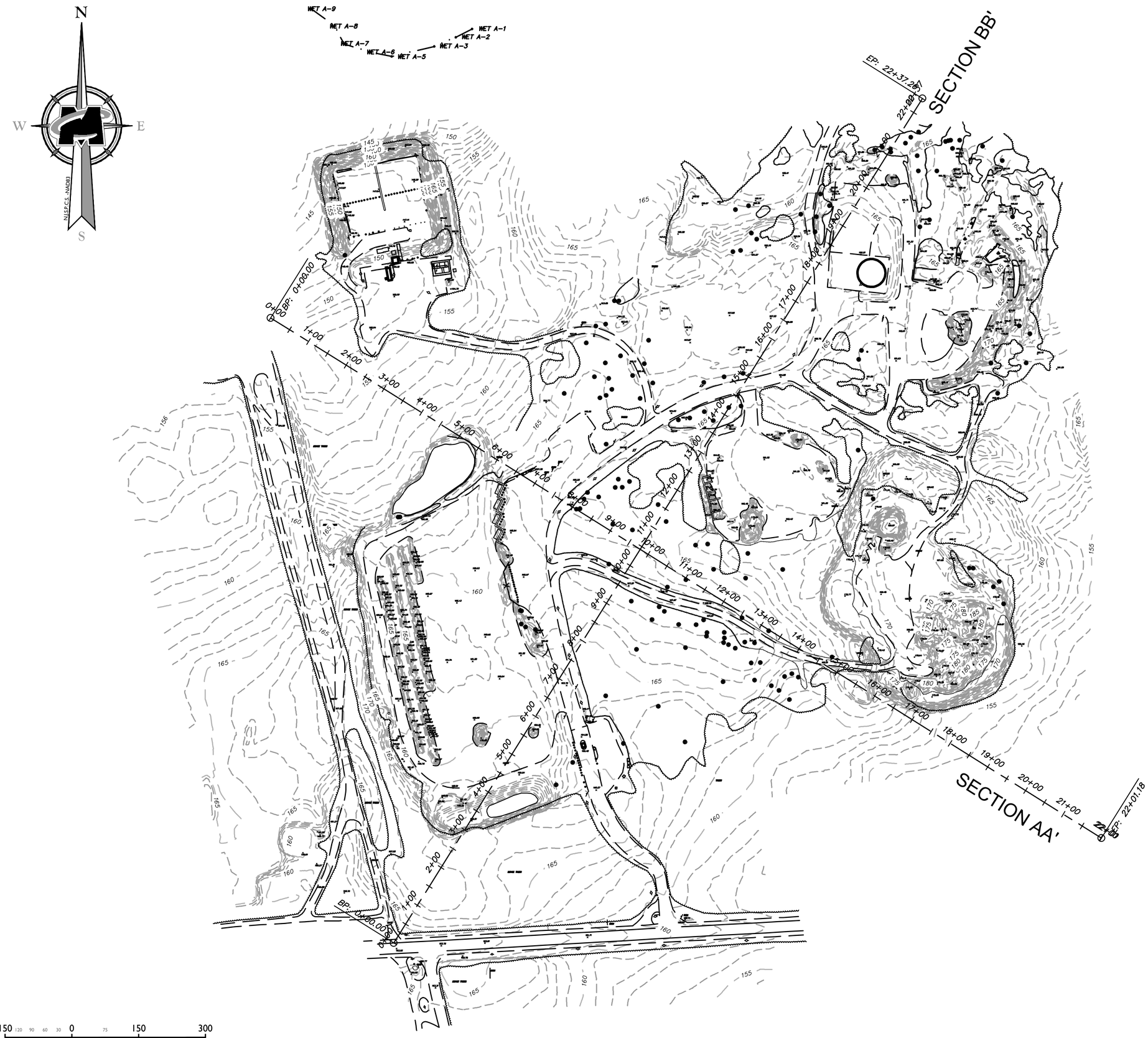
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PROJECT NUMBER: 19000537A
DRAWING NAME: MANCHESTER LF BASE MAP FINAL

SHEET TITLE: INTERPRETED EXTENT OF LANDFILL MATERIALS

SHEET NUMBER: FIGURE 1

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REV	DATE	DRAWN BY	DESCRIPTION

AERIAL TOPOGRAPHIC SURVEY

FOR

MANCHESTER TOWNSHIP

BLOCK 116
A PORTION OF LOT 13

MANCHESTER TOWNSHIP
OCEAN COUNTY
NEW JERSEY

RED BANK OFFICE
Corporate Headquarters
331 Newman Springs Road
Suite 203
Red Bank, NJ 07701

Phone: 732.383.1950
Fax: 732.383.1984

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PROJECT NUMBER:	DRAWING NAME:
MCT020	V-SURV-PRFL

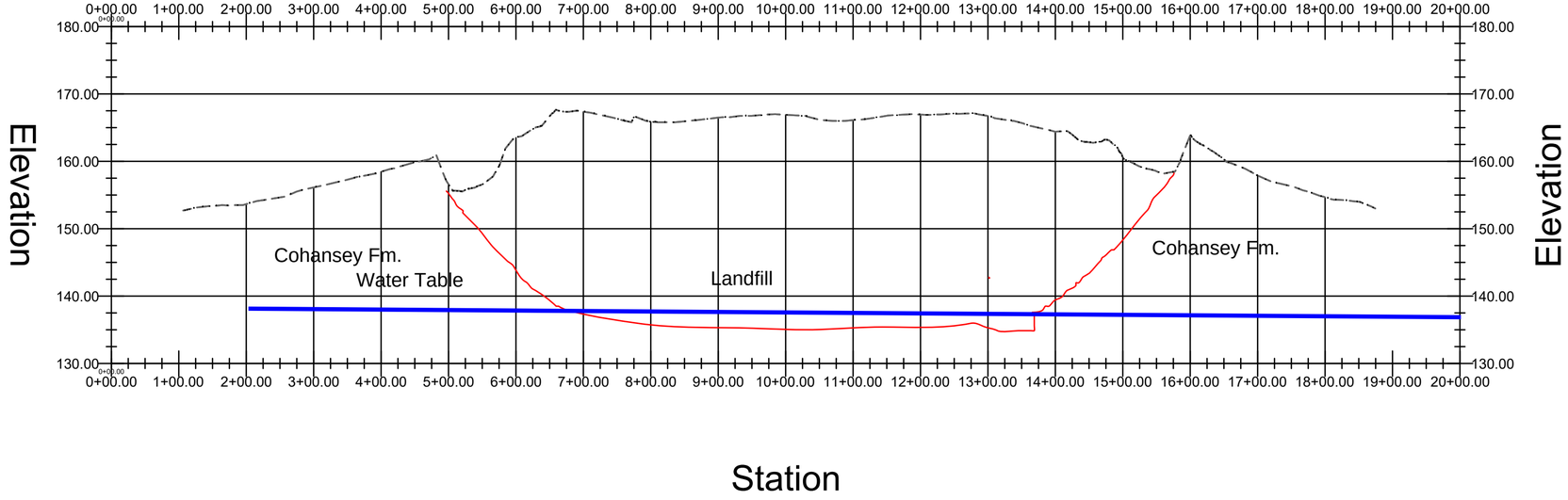
SHEET TITLE:
Figure 3
TOPOGRAPHIC SURVEY

SHEET NUMBER:
1 of 2

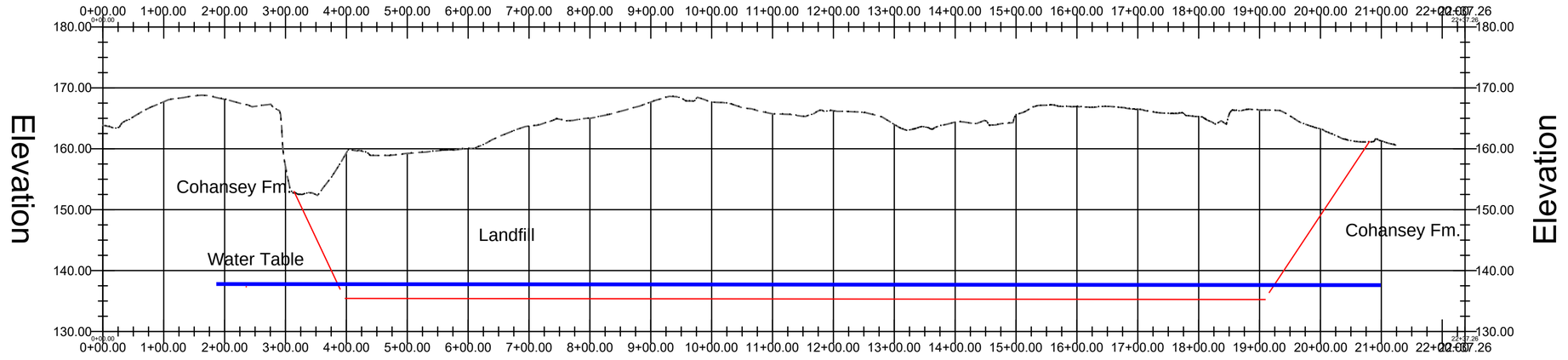
M:\MCT020\Survey\Plans\V-SURV-PRFL.dwg|V-01-SURVEY By: BWALLACE

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

SECTION AA'



SECTION BB'



150 120 90 60 30 0 75 150 300

SCALE : 1" = 150'

M:\MCT020\Survey\Plans\V-SURV-PRFL.dwg\V-02-SURVEY By: BWALLACE

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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REV	DATE	DRAWN BY	DESCRIPTION

AERIAL
TOPOGRAPHIC SURVEY

FOR

MANCHESTER
TOWNSHIP

BLOCK 116
A PORTION OF LOT 13

MANCHESTER TOWNSHIP
OCEAN COUNTY
NEW JERSEY

RED BANK OFFICE
Corporate Headquarters
331 Newman Springs Road
Suite 203
Red Bank, NJ 07701

Phone: 732.383.1950
Fax: 732.383.1984

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	10/5/20	BW	WM

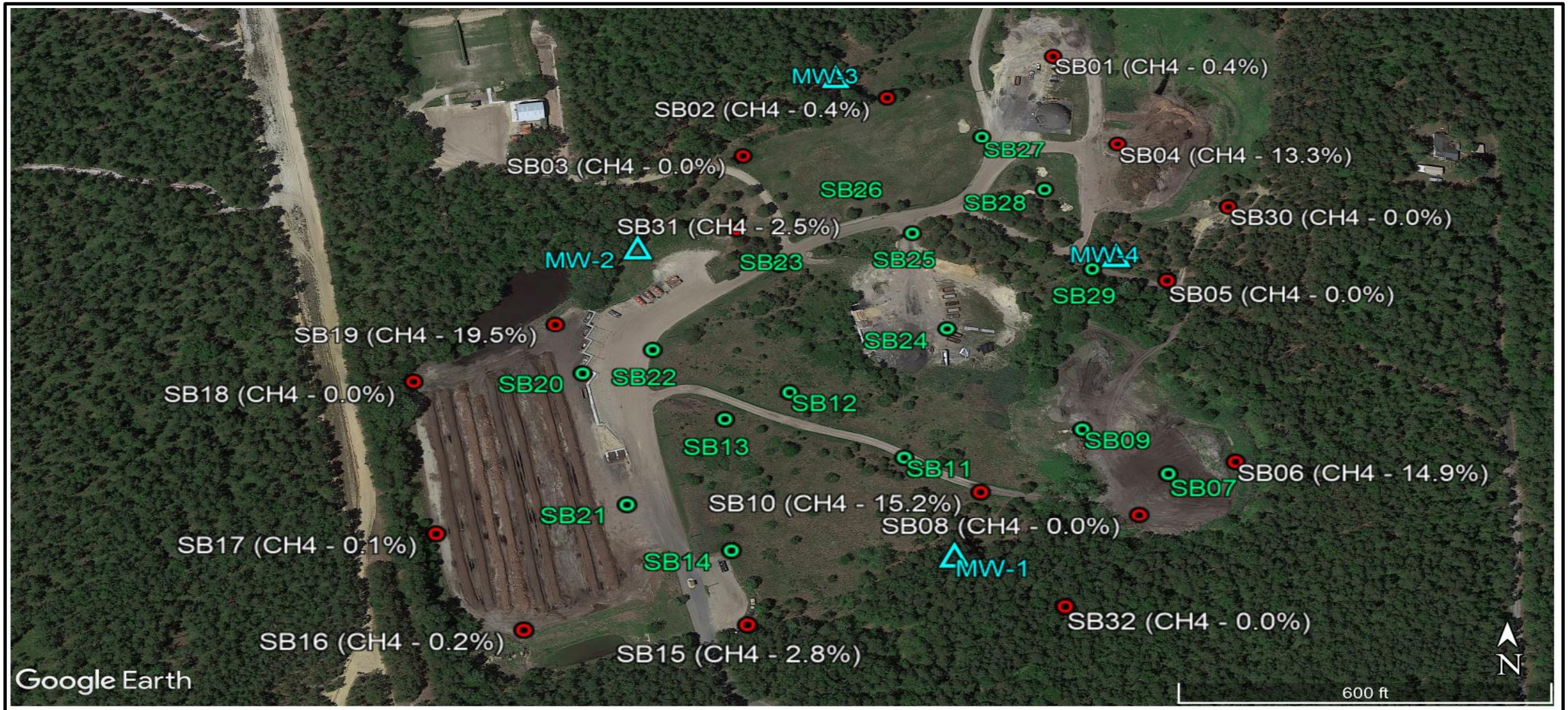
PROJECT NUMBER:	DRAWING NAME:
MCT020	V-SURV-PRFL

SHEET TITLE:

GEOLOGIC CROSS-SECTION

SHEET NUMBER:

2 of 2



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Fax: 856.722.1120

Legend

- Perimeter Gas Boring
- Soil Cover Boring
- GW Monitoring Well

SOIL BORING MAP – MANCHESTER LANDFILL

110 SAM PITTS ROAD (BLOCK 116 LOT 13),
TOWNSHIP OF MANCHESTER TOWNSHIP, NJ 08759

MC. Project No. MCT-048	Date: 10.12.2020
Design By: VJC	Latest Revision:
Scale: Graphic	Survey Date:

Figure 5

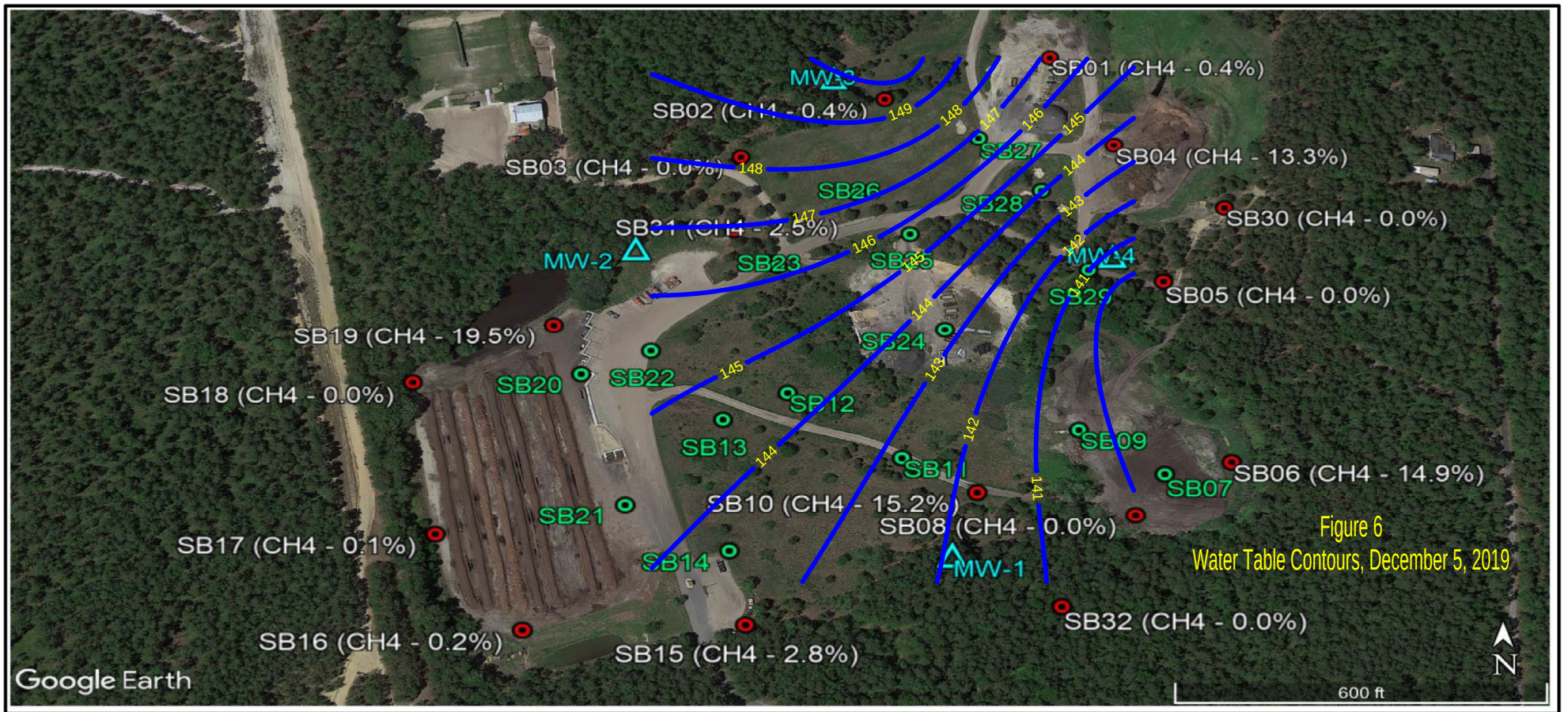


Figure 6
Water Table Contours, December 5, 2019

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Legend

- Perimeter Gas Boring
- Soil Cover Boring
- GW Monitoring Well

SOIL BORING MAP – MANCHESTER LANDFILL

110 SAM PITTS ROAD (BLOCK 116 LOT 13),
TOWNSHIP OF MANCHESTER TOWNSHIP, NJ 08759

MC. Project No. MCT-048	Date: 10.12.2020
Design By: VJC	Latest Revision:
Scale: Graphic	Survey Date:

Figure 5

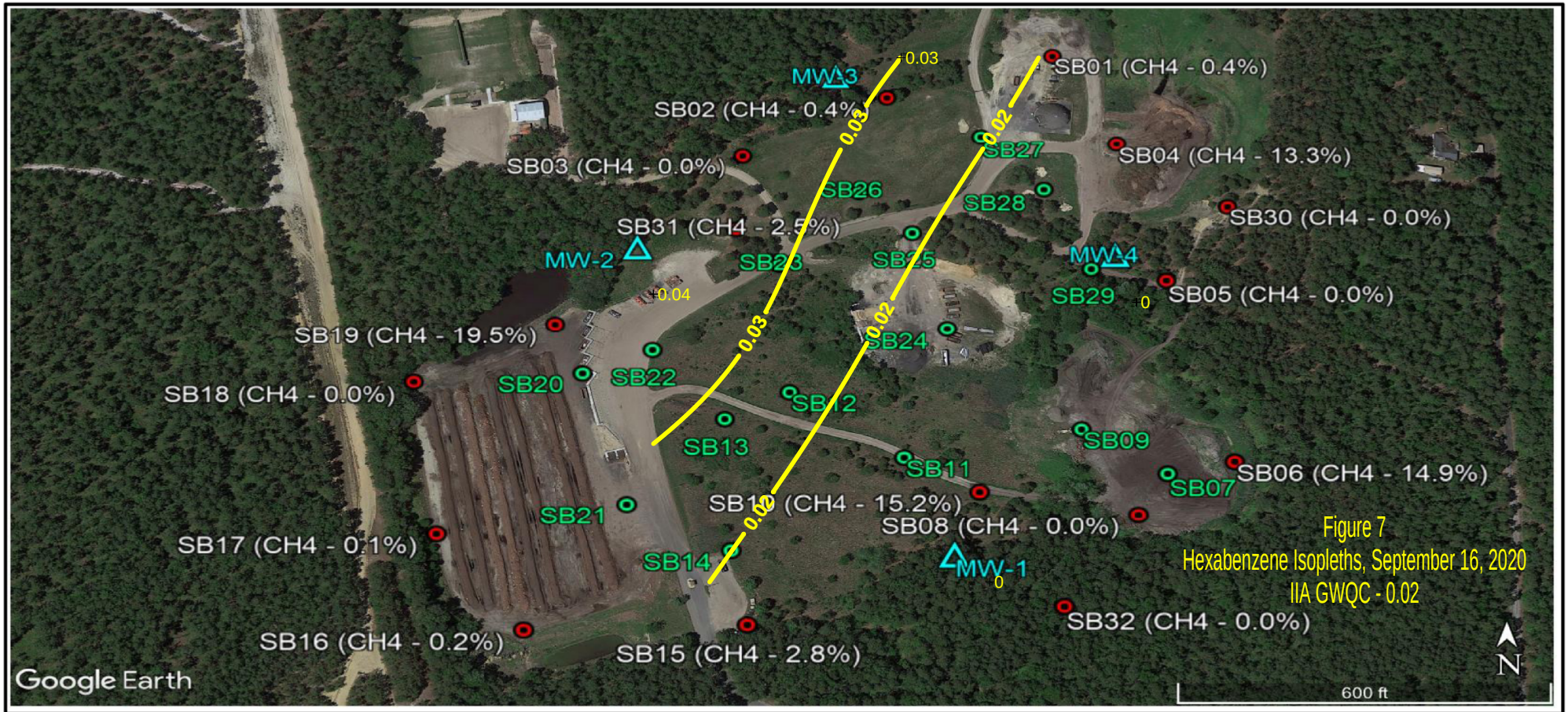


Figure 7
Hexabenzene Isopleths, September 16, 2020
IIA GWQC - 0.02

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Legend

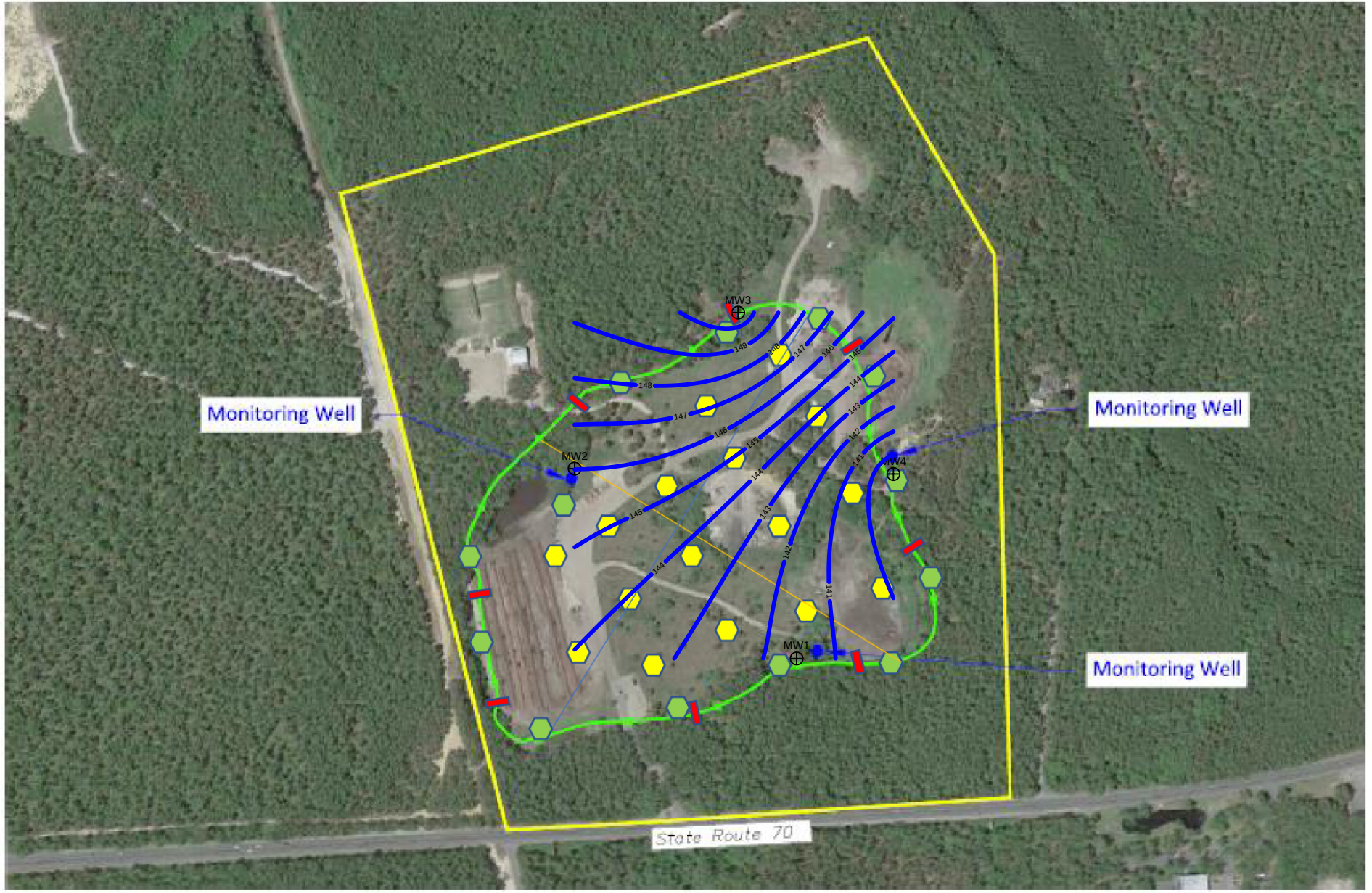
- Perimeter Gas Boring
- Soil Cover Boring
- GW Monitoring Well

SOIL BORING MAP – MANCHESTER LANDFILL

110 SAM PITTS ROAD (BLOCK 116 LOT 13),
TOWNSHIP OF MANCHESTER TOWNSHIP, NJ 08759

MC. Project No. MCT-048	Date: 10.12.2020
Design By: VJC	Latest Revision:
Scale: Graphic	Survey Date:

Figure 5



Subject Property

Monitoring Well

Interpreted Landfill Deposits Boundary

Test Pit/Hand Auger

1" = 300'

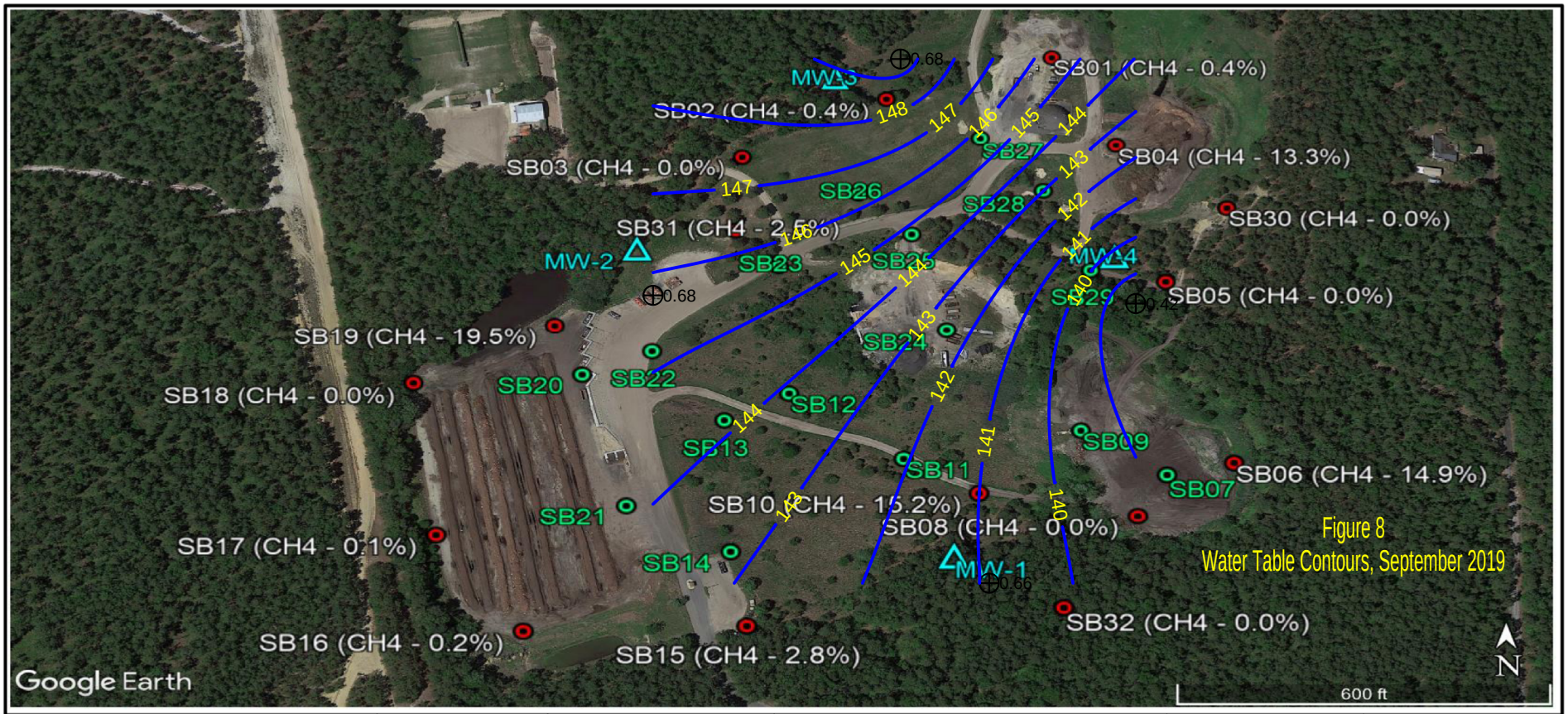


Figure 8
Water Table Contours, September 2019

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Legend

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- Soil Cover Boring
- GW Monitoring Well

SOIL BORING MAP – MANCHESTER LANDFILL

110 SAM PITTS ROAD (BLOCK 116 LOT 13),
TOWNSHIP OF MANCHESTER TOWNSHIP, NJ 08759

MC. Project No. MCT-048	Date: 10.12.2020
Design By: VJC	Latest Revision:
Scale: Graphic	Survey Date:

Figure 5

APPENDIX B

Soil Boring Logs – August 29 through September 1, 2020

331 Newman Springs Road
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SOIL BORING LOG

TEST PIT No.	**SB-1**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	411154	**EASTING:**	518662
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	25		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	8/31/2020
TIME:	8:30 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0 - 1' - Dark MC sand sand w/cobbles 1' - 5' - Light brown MC sand
5'-10'	5'			5' - 8' - Light brown MC sand 8' - 9' - Grey/White VF clay 9' - 10' - Light brown MC sand
10'-15'	5'			10' - 11' - Grey/white VF clay 11' - 14' - White MF sand 14' - 15' - Light brown MF sand
15'-20'	5'			15' - 20' - Light brown MC sand
20'-25'	5'			20' - 25' - Light brown MC sand CH4 - 0.4%

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SOIL BORING LOG

TEST PIT No.	**SB-2**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	411047	**EASTING:**	518349
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	25		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	8/31/2020
TIME:	9:15 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	2'			0' - 3' - Light brown MC sand w/silt and cobbles 3' - 4' - Garbage debris/wood fragments 4' - 5' - Light brown MC sand w/ silt and cobbles
5'-10'	1'			Aspahlt/wood fragments
10'-15'	1'			10' - 15' - Black MC sand w/ wood fragments
15'-20'	2'			15' - 18' - Brown F sand w/ clay and grey mottling 18' - 20' - Light brown MF sand w/ silt
20'-25'	3'			20' - 25' - Light brown MF sand w/ silt CH4 - 0.4%

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SOIL BORING LOG

TEST PIT No.	SB-3		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410899	EASTING:	518084
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	25	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	8/31/2020
TIME:	10:00 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	1'			0' - 5' - Brown/grey MC sand w/ silt (damp)
5'-10'	1'			5' - 10' - Brown/grey MC sand w/ silt (damp)
10'-15'	2'			10' - 12' - Wood fragments (organic odor) 12' - 15' - Black/grey MC sand w/ silt (wet)
15'-20'	4'			15' - 17' - Black/grey MC sand 17' - 19' - Brown F clay w/ trace mica 19' - 20' - Light brown MC sand w/ silt
20'-25'	4'			20' - 25' - Light brown MC sand w/ silt GW - 13.8' CH4 - 0.0%

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SOIL BORING LOG

TEST PIT No.	**SB-4**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410931	**EASTING:**	518769
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	25		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	8/31/2020
TIME:	10:40 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 3' - Topsoil/reworked soils 3' - 5' - Grey MC sand w/ trace clay
5'-10'	4'			5' - 6' - Light brown MC sand 6' - 6.5' - White F clay 6.5' - 8' - Light brown MC sand 8' - 10' - White F clay
10'-15'	4'			10' - 12' - Grey MC sand 12' - 14' - White F clay 14' - 15' - Light brown MF sand w/ silt
15'-20'	4'			15' - 20' - Light brown MF sand w/ silt
20'-25'	4'			20' - 25' - Light brown MF sand w/ silt CH4 - 13.3%

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SOIL BORING LOG

TEST PIT No.	SB-5		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410602	EASTING:	518836
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	25	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	8/31/2020
TIME:	11:20 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 5' - Light brown MF sand w/ silt
5'-10'	4'			5' - 10' - Light brown MF sand w/ silt
10'-15'	4'			10' - 15' - Light brown MF sand w/ silt
15'-20'	4'			15' - 20' - Light brown MF sand w/ silt
20'-25'	4'			20' - 25' - Light brown MF sand w/ silt GW - 20' CH4 - 0.0%

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SOIL BORING LOG

TEST PIT No.	**SB-6**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410163	**EASTING:**	518877
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	35		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	8/31/2020
TIME:	12:20 PM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 2.5' - Brown light MC w/ cobbles 2.5' - 5' - Black MF sand w/ silt and wood fragments
5'-10'	1'			5' - 10' - Black MF sand w/ silt and wood fragments
10'-15'	3'			10' - 15' - Brown/grey MF sand w/ silt (moist)
15'-20'	4'			15' - 20' - Light brown/grey MF sand w/ silt
20'-25'	4'			20' - 22' - Grey/white MF sand w/ silt 22' - 23' - Light brown F clay 23' - 25' - Light brown MC sand w/ silt
25' - 30'	4'			25' - 30' - Brown MC sand w/ silt and grey mottling
30' - 35'	4'			30' - 34' - Grey F sand w/ silt (wet) 34' - 35' - Light brown MF sand w/ silt (wet) CH4 - 14.9%

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SOIL BORING LOG

TEST PIT No.	**SB-7**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410173	**EASTING:**	518808
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	5	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	8/31/2020
TIME:	1:30 PM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 5' - Black MF sand w/ wood fragments

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SOIL BORING LOG

TEST PIT No.	**SB-8**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410086	**EASTING:**	518753
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	30	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	8/31/2020
TIME:	1:45 PM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 3' - Black MF sand 3' - 4' - Grey F clay 4' - 5' - Black MF sand
5'-10'	2'			5' - 10' - Black MF sand w/ wood fragments
10'-15'	3'			10' - 15' - Brown/grey MC sand w/ clay
15'-20'	4'			15' - 20' - Light brown MF sand w/ silt
20'-25'	4'			20' - 25' - Light brown MF sand w/ silt
25' - 30'	4'			25' - 30' - Light brown MF sand w/ silt GW - 28' CH4 - 0.0%

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SOIL BORING LOG

TEST PIT No.	**SB-9**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410267	**EASTING:**	518668
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	5		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	8:00 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 5' - Black MF sand w/ wood fragments

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SOIL BORING LOG

TEST PIT No.	SB-10		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410134	EASTING:	518490
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	25	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	8:30 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 2' - Light brown MC sand w/ silt 2' - 5' - Grey MC sand w/ silt and cobbles
5'-10'	6"			5' - 10' - Light brown MC sand w/ silt and garbage debris
10'-15'	2'			Garbage debris (wood/leaf fragments)
15'-20'	4'			15' - 20' - Light brown MF sand w/ silt
20'-25'	4'			20' - 25' - Light rbown MC sand w/ silt CH4 - 15.2%

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SOIL BORING LOG

TEST PIT No.	**SB-11**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410206	**EASTING:**	518363
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	5	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	9:10 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 5' - Light brown MC sand w/ silt Interbedded w/ white clay at 5' Garbage debris (newspaper/styrofoam) at 5'

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SOIL BORING LOG

TEST PIT No.	**SB-12**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410347	**EASTING:**	518169
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	5		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	9:20 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 2' - Light brown MC sand w/ silt 2' - 2.5' - White F clay 2.5' - 5' - Light brown MC sand w/ silt

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SOIL BORING LOG

TEST PIT No.	SB-13		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410289	EASTING:	518058
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	5	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	9:30 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 5' - Brown MC sand w/ silt and cobbles Garbage debris at 4'

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SOIL BORING LOG

TEST PIT No.	**SB-14**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410010	**EASTING:**	518072
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	5	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	9:45 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 5' - Brown MC sand w/ silt and cobbles Garbage debris at 4'

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SOIL BORING LOG

TEST PIT No.	**SB-15**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	409861	**EASTING:**	518100
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	25		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	10:00 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 5' - Light brown MC sand w/ silt and cobbles
5'-10'	2'			5' - 8' - Light brown MC sand w/ silt 8' - 9' - Black MC sand w/ garbage debris (rubber fragments) 9' - 10' - Light brown MC sand w/ silt
10'-15'	3'			10' - 15' - Light rbown MF sand w/ silt
15'-20'	5'			15' - 18' - Light brown MF sand w/ silt 18' - 18.5' - White F clay 18.5' - 20' - Light brown MF sand w/ silt
20'-25'	5'			20' - 25' - Light brown MF sand w/ silt (wet) CH4 - 2.8%

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SOIL BORING LOG

TEST PIT No.	SB-16		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	409850	EASTING:	517736
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	25	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	10:45 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 4' - Light brown MF sand w/ silt 4' - 5' - Grey MF sand w/ silt
5'-10'	4'			5' - 7' - Grey MF sand w/ silt 7' - 10' - White F clay
10'-15'	5'			10' - 13' - Light brown MF sand w/ silt 13' - 13.5' - White F clay 13.5' - 15' - Light brown MF sand w/ silt
15'-20'	5'			15' - 20' - Light brown MF sand w/ silt
20'-25'	5'			20' - 25' - Light brown MF sand w/ silt CH4 - 0.2%

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SOIL BORING LOG

TEST PIT No.	**SB-17**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410044	**EASTING:**	517581
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	25		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	11:50 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	5'			0' - 3' - Light brown F clay w/ grey mottling 3' - 4' - Light grey F clay 4' - 5' - Light brown F clay
5'-10'	5'			5' - 6' - Brown/grey MF sand 6' - 8' - Brown MC sand w/ silt 8' - 9' - Brown/grey MF sand 9' - 10' - Light brown MF sand w/ silt
10'-15'	5'			10' 11' - Grey/tan MF sand w/ silt 11' - 11.5' - White F clay 11.5' - 15' - Gray/tan MF sand w/ silt
15'-20'	5'			15' - 20' - Light brown MF sand w/ silt
20'-25'	5'			20' - 25' - Light brown MF sand w/ silt GW - 24' CH4 - 0.1%

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SOIL BORING LOG

TEST PIT No.	SB-18		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410370	EASTING:	517520
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	25	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	12:45 PM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	5'			0' - 1' - Light brown MC sand w/ clay 1' - 4' - Grey F clay w/ brown mottling 4' - 5' - Grey MF sand
5'-10'	5'			5' - 7' - Brown MC sand w/ silt 7' - 9' - Grey F clay w/ brown mottling 9' - 10' - Grey MF sand w/ silt
10'-15'	5'			10' - 13' - Grey MF sand w/ silt 13' - 15' - Light brown MF sand w/ silt
15'-20'	5'			15' - 20' - Light brown MF sand w/ silt and grey mottling
20'-25'	5'			20' - 25' - Light brown MF sand w/ silt GW - 22' CH4 - 0.0%

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SOIL BORING LOG

TEST PIT No.	**SB-19**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410500	**EASTING:**	517759
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	25		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/1/2020
TIME:	1:45 PM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 4' - Reworked soils 4' - 5' - Grey F clay w/ brown mottling
5'-10'	3'			5' - 10' - Brown F clay
10'-15'	4'			10' - 14' - Grey F clay w/ brown mottling 14' - 15' - Light brown MF sand w/ silt
15'-20'	5'			15' - 20' - Light brown MF sand w/ silt
20'-25'	5'			20' - 25' - Light brown/grey MF sand w/ silt GW - 22' CH4 - 19.5%

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SOIL BORING LOG

TEST PIT No.	**SB-20**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410389	**EASTING:**	517811
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	5		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	8:15 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 3' - Reworked Black MC sand 3' - 4' - Brown MC sand w/ clay and cobbles 4' - 5' - White MF sand w/ clay

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SOIL BORING LOG

TEST PIT No.	**SB-21**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410107	**EASTING:**	517896
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	5	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	8:40 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	5'			0' - 2' - Reworked Black MC sand 2' - 4.5' - Brown MC sand w/ clay and cobbles 4.5' - 5' - White MF sand w/ clay

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SOIL BORING LOG

TEST PIT No.	**SB-22**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410441	**EASTING:**	517931
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	5		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	8:55 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 2' - Brown MC sand w/ silt and cobbles 2' - 3' - Brown F clay w/ white mottling 3' - 5' - Brown MC sand w/ clay and cobbles Garbage debris (plastic/styrofoam) at 4'

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SOIL BORING LOG

TEST PIT No.	**SB-23**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410638	**EASTING:**	518151
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	5		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	9:10 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 4' - Light brown MF sand w/ silt and cobbles 4' - 4.5' - White F clay 4.5' - 5' - Dark brown MC sand w/ cobbles

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SOIL BORING LOG

TEST PIT No.	**SB-24**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410490	**EASTING:**	518444
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	5	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	9:25 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 1' - Reworked gravel 1' - 4' - Dark brown MF sand w/ silt and cobbles 4' - 5' - Light brown MF sand w/ silt

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SOIL BORING LOG

TEST PIT No.	SB-25		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410713	EASTING:	518388
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	5	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	9:40 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 5' - Light brown MC sand w/ silt and cobbles

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SOIL BORING LOG

TEST PIT No.	**SB-26**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410811	**EASTING:**	518295
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	5		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	9:50 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 5' - Light brown MC sand w/ silt and cobbles

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SOIL BORING LOG

TEST PIT No.	**SB-27**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410948	**EASTING:**	518521
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	5		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	10:05 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 3' - Brown MF sand w/ silt 3' - 4.5' - Brown MC sand w/ clay and cobbles 4.5' - 5' - Black MF sand w/ silt Garbage debris (plastic/wood fragments) at 4'

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SOIL BORING LOG

TEST PIT No.	**SB-28**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410818	**EASTING:**	518630
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	5	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	10:20 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 5' - Light brown MC sand w/ silt and cobbles

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SOIL BORING LOG

TEST PIT No.	**SB-29**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410648	**EASTING:**	518742
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	5		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	10:20 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 4' - Light brown MC sand w/ silt and cobbles 4' - 5' - Dark grey MC sand w/ silt Garbage debris (plastic/wood fragments) at 4'

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SOIL BORING LOG

TEST PIT No.	**SB-30**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410776	**EASTING:**	518959
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	25		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	10:50 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	4'			0' - 5' - Light brown MC sand w/ silt
5'-10'	3'			5' - 10' - Light brown MC sand w/ silt
10'-15'	4'			10' - 15' - Light brown MC sand w/ silt
15'-20'	5'			15' - 20' - Light brown MC sand w/ silt
20'-25'	5'			20' - 25' - Light brown MC sand w/ silt CH4 - 0.0%

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SOIL BORING LOG

TEST PIT No.	SB-31		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	410722	EASTING:	518074
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A	FT	
SOIL BORING DEPTH:	25	FT	
GROUNDWATER DEPTH:	N/A	FT	

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	11:35 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	2'			0' - 5' - Light brown MC sand w/ silt
5'-10'	1'			5' - 10' - Light brown MC sand w/ silt
10'-15'	4'			10' - 15' - Light brown MC sand w/ silt
15'-20'	5'			15' - 18' - Light brown/grey MF sand w/ silt 18' - 20' - Brown MF sand w/ silt
20'-25'	4'			20' - 21' - Grey F-VF silt 21' - 25' - Brown/grey MF sand w/ silt CH4 - 2.5%

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SOIL BORING LOG

TEST PIT No.	**SB-32**		
LOCATION:	110 Sam Pitts Rd, Manchester Township, NJ 08759		
NORTHING:	409898	**EASTING:**	518620
DATUM:	NAD 83		
SURFACE ELEVATION:	N/A		FT
SOIL BORING DEPTH:	25		FT
GROUNDWATER DEPTH:	N/A		FT

PROJECT:	Manchester Landfill
JOB NO.:	MCT-048
DATE OF BORING:	9/2/2020
TIME:	11:35 AM
INSPECTED BY:	VJC
INSTALLED BY:	ECDI
TEST PIT METHOD:	GeoProbe

TEST PIT SECTION [FT]	RECOVERY [FT]	SOIL DEPTH [FT]	PID [ppm]	SOIL DESCRIPTION
0-5'	3'			0' - 1' - Grey/black MF sand 1' - 5' - Brown MF sand w/ silt and cobbles
5'-10'	4'			5' - 6.5' - Brown MC sand w/ clay 6.5' - 8' - Grey F clay w/ brown mottling 8' - 10' - Light brown MF sand w/ silt
10'-15'	4'			10' - 14' - Brown F clay 14' - 15' - Brown MF sand
15'-20'	4'			15' - 20' - Brown/grey MF sand
20'-25'	4'			20' - 22' - Brown/grey MF sand 22' - 25' - Brown MF sand GW - 22' CH4 - 0.0%

APPENDIX C

Groundwater Monitoring Well Logs
And
Construction Details

Coord: 3204565

Form DWR- 138
11/80

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 3211274

APPLICATION NO. _____

COUNTY Ocean

FOR MONITORING PURPOSES ONLY

WELL RECORD

1. OWNER MANCHESTER TWP. ADDRESS 1 COLONIAL DR.

Owner's Well No. 1 SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: Block: Municipality: Manchester Twp.

3. DATE COMPLETED 6/18/85 DRILLER A.C. Schultes & Sons, Inc.

4. DIAMETER: Top 8-3/4 inches Bottom 8-3/4 inches TOTAL DEPTH 45 Feet

5. CASING: Type PVC Diameter 4 Inches Length 30 Feet

6. SCREEN: Type PVC Size of Opening ____ Diameter 4 Inches Length 20 Feet

Range in Depth { Top 5 Feet / Bottom 35 Feet } Geologic Formation _____

Tail Piece: Diameter 4 Inches Length 10 Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG See Attached Are samples available? _____

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Driller's Log

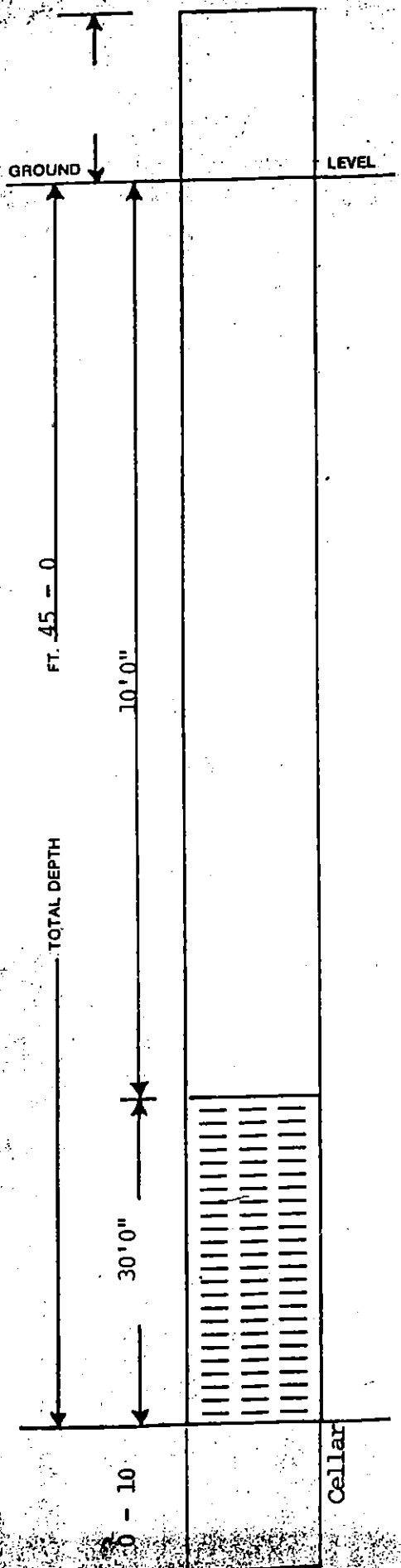
14. DATA OBTAINED BY .A.C.SCHULTES & SONS, INC/Wm. Jefferys Date 7/1/85

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

32.04.565

A.C. SCHULTES & SONS, INC.

SINGLE CASED WELL



WELL LOG	FEET FROM GROUND SURFACE 0 to ———	NAME OF OWNER
		Manchester Township
Sand	0 - 5	Location: Rt. 70, Manchester, NJ
Sand Stone	5 - 20	Well No. 1
Sand	20 - 30	State Permit 32-11274 32-11274
Sandy clay	30 - 35	Job No. 20357
Sand	35 - 50	Test Pumped (Hrs.) 1 hour
		Capacity (GPM)
		Static Level 22 feet
		Pumping Level
		Datum
		Specific Capacity
		Diameter of Casing 4"
		Depth of Well (Ground) 45
		Depth to Gravel 10'
		Gravel Size #1
		Length of Casing & Screen
		Screen Material PVC
		Screen Mfg. Schaeffer
		Screen Dia. 4"
		Length of Screen 30 feet
		Top of Screen Fitting flush joint
		Bottom of Screen Fitting flush joint cap
		Slot Size .020
		Seal Material cement
		Quantity 3 bags
		Depth of Seal Material 0 - 8'
		Drilling Machine 6B
		Date Well Completed 6-18-85
		Driller Steven Steffen

Form DWR-138
11/80

Coord: 3204565

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 3211275

APPLICATION NO. _____

COUNTY Ocean

FOR MONITORING PURPOSES ONLY

WELL RECORD

1. OWNER MANCHESTER TWP. ADDRESS 1 COLONIAL DR.

   Owner's Well No. 2 SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: Block: Municipality: Manchester Twp.

3. DATE COMPLETED 6/18/85 DRILLER A.C. Schultes & Sons, Inc.

4. DIAMETER: Top 8-3/4 inches Bottom 8-3/4 inches TOTAL DEPTH 40 Feet

5. CASING: Type PVC Diameter 4 Inches Length 25 Feet

6. SCREEN: Type PVC Size of Opening .020 Diameter 4 Inches Length 20 Feet

   Range in Depth { Top 15 Feet / Bottom 35 Feet } Geologic Formation _____

   Tail Piece: Diameter 4 Inches Length 5 Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

   Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

   Static water level before pumping _____ Feet below surface

   Pumping level _____ feet below surface after _____ hours pumping

   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

   How pumped _____ How measured _____

   Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

   Type _____ Mfrs. Name _____

   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes ____ No ____

    Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG See Attached Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Driller's Log

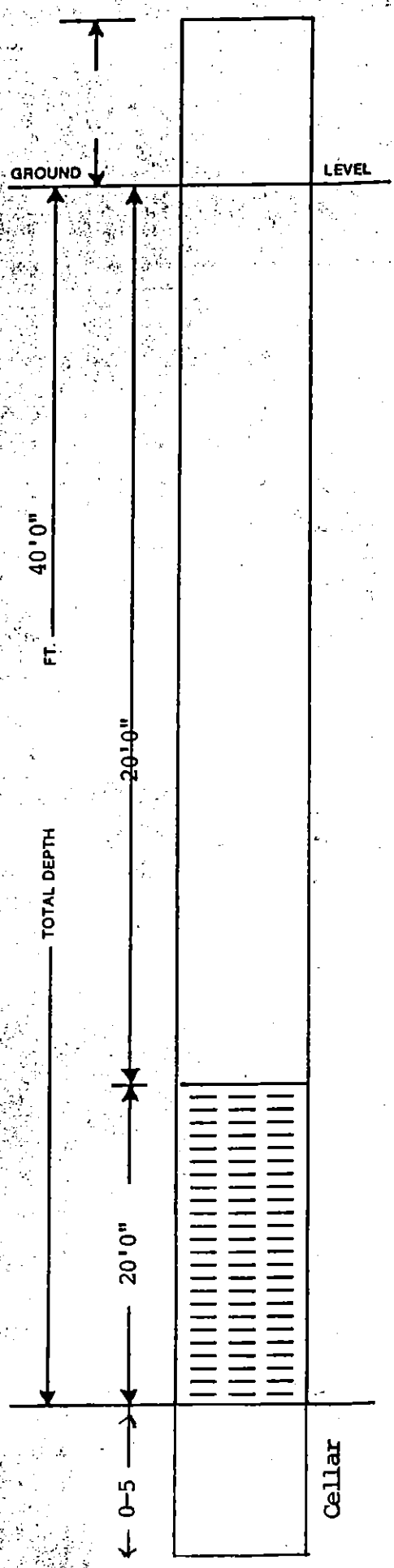
14. DATA OBTAINED BY A.C.SCHULTES & SONS, INC/Wm. Jefferys Date 7/1/85

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

32.04.565 3211275

A.C. SCHULTES & SONS, INC.

SINGLE CASED WELL



WELL LOG	FEET FROM GROUND SURFACE 0 to ____	NAME OF OWNER Manchester Township
Sand	0 - 5	Location Rt. 70, Manchester, NJ
Sand and clay	5 - 25	Well No. 2
Sand	25 - 45	State Permit 32-11275
		Job No. 20357
		Test Pumped (Hrs.) 1 hour
		Capacity (GPM) 5 GPM
		Static Level 22
		Pumping Level
		Datum
		Specific Capacity
		Diameter of Casing 4"
		Depth of Well (Ground) 40
		Depth to Gravel 15
		Gravel Size 1
		Length of Casing & Screen 40
		Screen Material PVC
		Screen Mfg. Schaeffer
		Screen Dia. 4"
		Length of Screen 20 feet
		Top of Screen Fitting flush joint pipe
		Bottom of Screen Fitting flush joint plug
		Slot Size .020
		Seal Material cement
		Quantity 2 bags
		Depth of Seal Material 0 - 12 feet
		Drilling Machine 6 - C
		Date Well Completed 6/18/85
		Driller Steven Steffen

Form DWR- 138
11/80

FOR MONITORING PURPOSES ONLY

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 3204565

PERMIT NO. 3211276

APPLICATION NO. _____

COUNTY Ocean

WELL RECORD

1. OWNER MANCHESTER TWP. ADDRESS 1 COLONIAL DR.

Owner's Well No. 3 SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: Block: Municipality: Manchester Twp.

3. DATE COMPLETED _____ DRILLER A.C. Schultes & Sons, Inc.

4. DIAMETER: Top 8-3/4 inches Bottom 8-3/4 inches TOTAL DEPTH 45 Feet

5. CASING: Type PVC Diameter 4 Inches Length 30 Feet

6. SCREEN: Type PVC Size of Opening .020 Diameter 4 Inches Length 20 Feet

Range in Depth { Top 20 Feet / Bottom 40 Feet } Geologic Formation _____

Tail Piece: Diameter 4 Inches Length 5 Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump In well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes _____ No _____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG See Attached Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Driller's Log

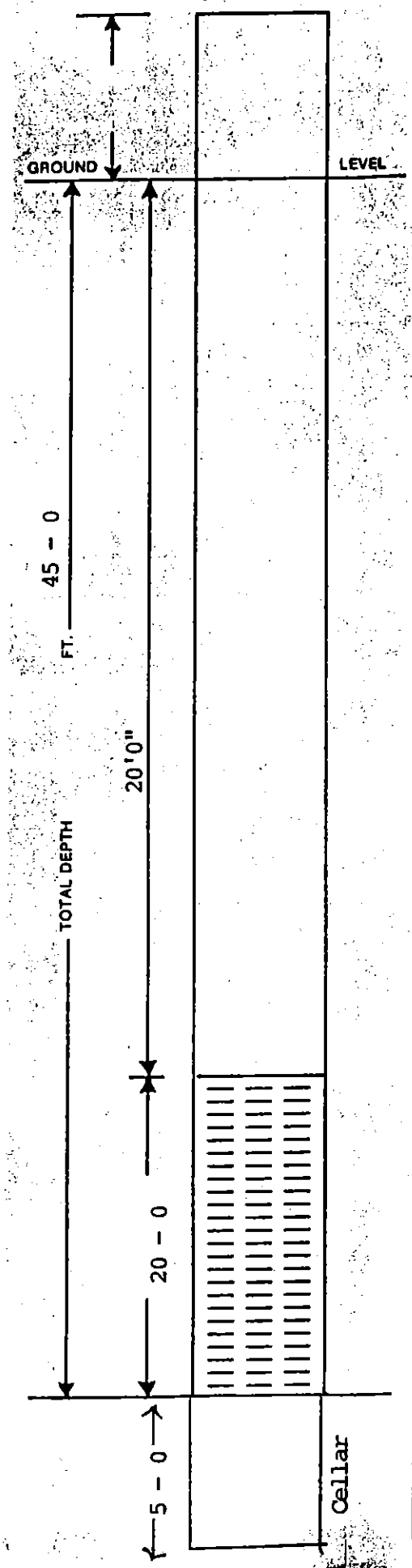
14. DATA OBTAINED BY A.C. SCHULTES & SONS, INC/Wm.Jefferys Date 7/1/85

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

3204565 32-11276

A.C. SCHULTES & SONS, INC.

SINGLE CASED WELL



WELL LOG	FEET FROM GROUND SURFACE 0 to ____	NAME OF OWNER Manchester Township
Sand	5 - 45	Location Rt. 70, Manchester, NJ
		Well No. 3
		State Permit 32-11276
		Job No. 20357
		Test Pumped (Hrs.) 1 hour
		Capacity (GPM) 5 GPM
		Static Level 22
		Pumping Level
		Datum
		Specific Capacity
		Diameter of Casing 4"
		Depth of Well (Ground) 45 feet
		Depth to Gravel 15 feet
		Gravel Size #1
		Length of Casing & Screen 45 feet
		Screen Material PVC
		Screen Mfg. Schaeffer
		Screen Dia. 4"
		Length of Screen 20 feet
		Top of Screen Fitting flush joint pipe
		Bottom of Screen Fitting flush joing plug
		Slot Size .020
		Seal Material cement
		Quantity 3 bags
		Depth of Seal Material 0 - 12 feet
		Drilling Machine 6 - C
		Date Well Completed 6/19/85
		Driller Steven Steffan

Form DWR-138
11/80

FOR MONITORING PURPOSES ONLY

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Coord: 3204565

PERMIT NO. 3211277

APPLICATION NO. _____

COUNTY Ocean

WELL RECORD

1. OWNER MANCHESTER TWP. ADDRESS 1 COLONIAL DR.

Owner's Well No. 4 SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: Block: Municipality: Manchester Twp.

3. DATE COMPLETED 6/20/85 DRILLER A.C. Schultes & Sons, Inc.

4. DIAMETER: Top 8-3/4 inches Bottom 8-3/4 inches TOTAL DEPTH 40 Feet

5. CASING: Type PVC Diameter 4 Inches Length 25 Feet

6. SCREEN: Type PVC Size of Opening .020 Diameter 4 Inches Length 20 Feet

Range in Depth { Top 15 Feet / Bottom 35 Feet } Geologic Formation _____

Tail Piece: Diameter 4 Inches Length 5 Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date _____ Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped _____ How measured _____

Observed effect on nearby wells _____

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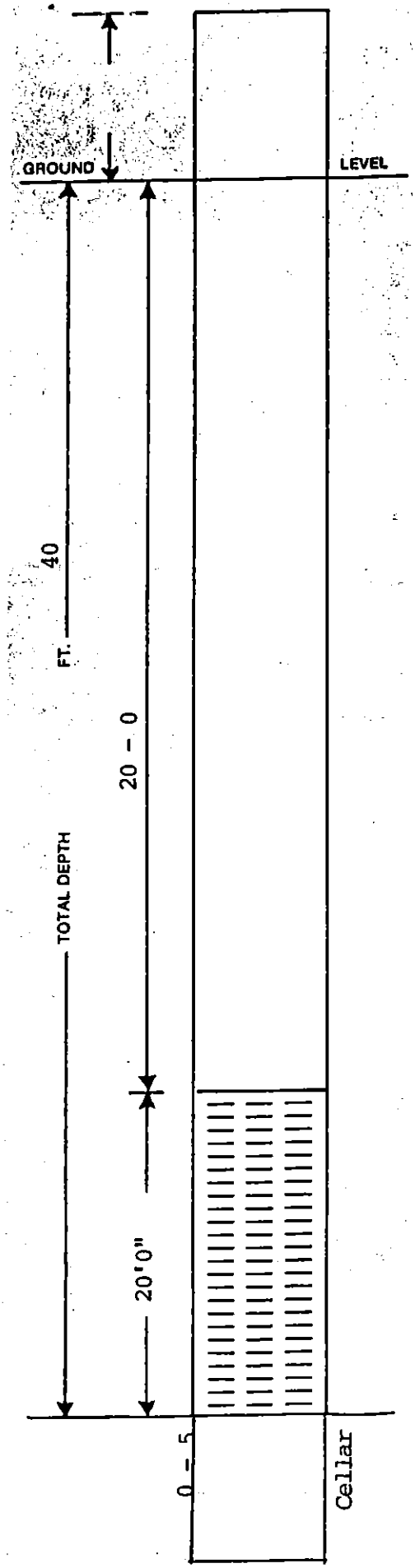
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32.04.565 32-11277

A.C. SCHULTES & SONS, INC.

SINGLE CASED WELL



WELL LOG	FEET FROM GROUND SURFACE 0 to ____	NAME OF OWNER
		Manchester Township
Sand	5 - 45	Location Rt 70, Manchester, NJ
		Well No. 4
		State Permit 32-11277
		Job No. 20357
		Test Pumped (Hrs.) 1 hour
		Capacity (GPM) 3 GPM
		Static Level 22
		Pumping Level
		Datum
		Specific Capacity
		Diameter of Casing 4"
		Depth of Well (Ground) 40
		Depth to Gravel 12'
		Gravel Size 1
		Length of Casing & Screen 50
		Screen Material PVC
		Screen Mfg. Schaeffer
		Screen Dia. 4"
		Length of Screen 20 feet
		Top of Screen Fitting Flush joint pipe
		Bottom of Screen Fitting Flush joint plug
		Slot Size .020
		Seal Material cement
		Quantity 3 bags
		Depth of Seal Material 0 - 12'
		Drilling Machine 6-C
		Date Well Completed 6/20/85
		Driller Steven Steffan

APPENDIX D

Historic Ground Water Data Monitoring Analytical Reports

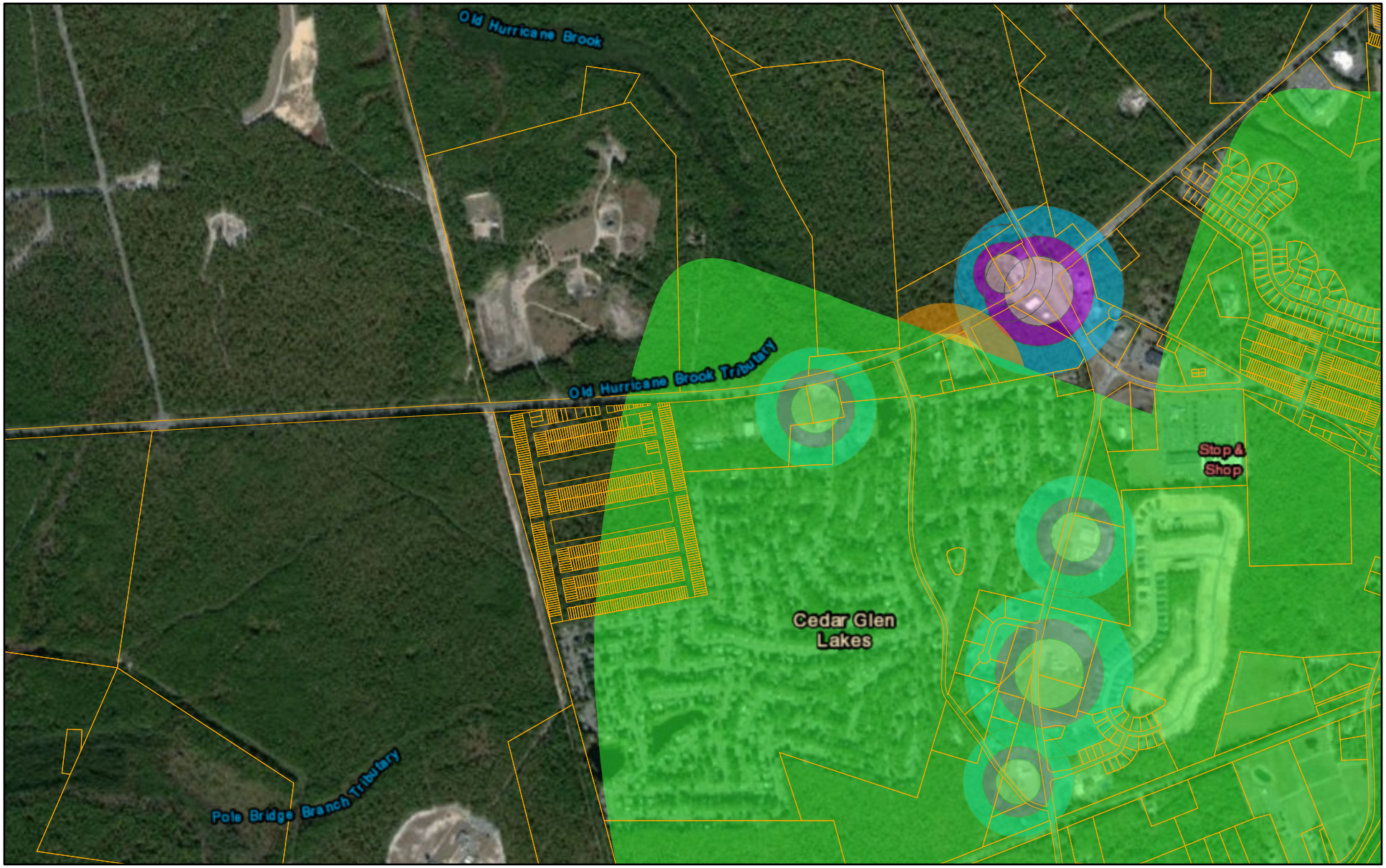
APPENDIX E

TestAmerica Analytical Report 460-172357-1
September 19, 2020

APPENDIX F

Receptor Evaluation

NJDEP GIS Data Viewer



10/9/2020, 3:23:37 PM

County Boundaries

Parcels Data (Block and Lot)

Well Head Protection Areas (Community)

Tier 1: 2-Year

Tier 2: 5-Year

Tier 3: 12-Year

Well Head Protection Areas (Non-Community)

Tier 1: 2-Year

1:18,056

0 0.1 0.2 0.4 mi

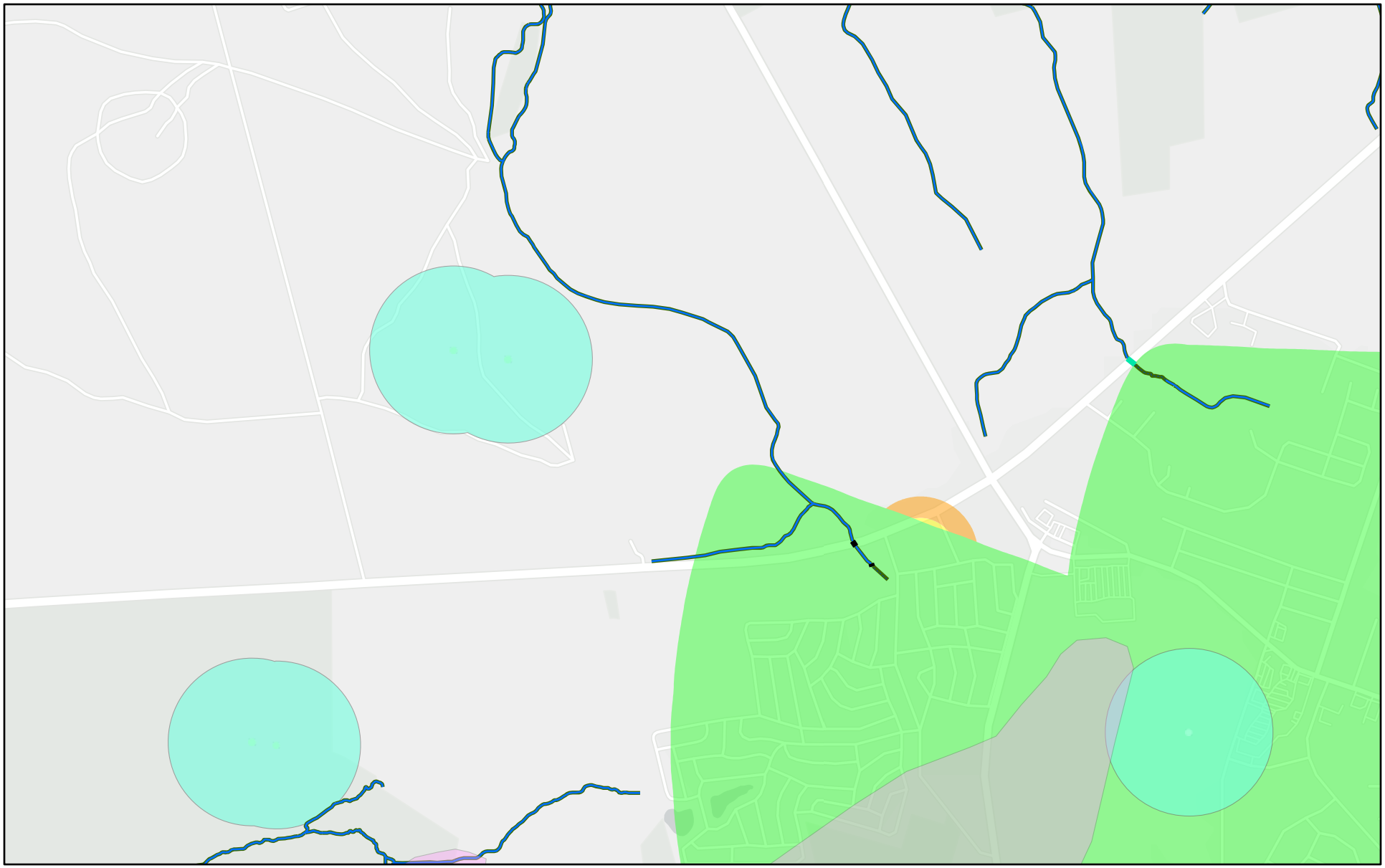
0 0.17 0.35 0.7 km

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,

New Jersey Department of Environmental Protection

NJDEP | NJDEP, Bureau of Energy and Sustainability Edition 20190327 | New Jersey Office of Information Technology (NJOIT), Office of Geographic Information Systems | NJDEP. USEIA | NJ Department of Environmental Protection, Division of Information

Whiting Landfill



10/8/2020, 4:59:25 PM

1:25,354

0 500 1,000 2,000 ft

0 265 530 1,060 m

County Boundaries

Natural Heritage Priority Sites

Streams

Stream/River

Artificial Path

Connector

Pipeline

Surface Water Quality Classification

PL

Vernal Habitat - Landscape Project

Potential vernal habitat area

Vernal Pools - Landscape Project

Potential vernal pool location

Well Head Protection Areas (Community)

Tier 1: 2-Year

Tier 2: 5-Year

Tier 3: 12-Year

Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap

New Jersey Department of Environmental Protection

Esri Community Maps Contributors, State of New Jersey, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA | NJDEP | NJDEP, Bureau of Energy and Sustainability Edition 20190327 | New Jersey Office of

Attachment E

INSTR # 2001059832
OR BK 10379 PG 1869
RECORDED 05/04/2001 10:11 AM
M. DEAN HAINES COUNTY CLERK
OCEAN COUNTY, NEW JERSEY

COUNTY OF OCEAN
CONSIDERATION 1.00
REALTY TRANSFER FEE Exempt
DATE 5-4-01 BY PA

OLD LT 19 - PINE BARRENS TRACT ON Tax A-87

Easement

The undersigned, Twp. of Manchester whose address is 1 Colonial Dr Manchester, NJ 08733 (the "Grantor"), is the owner of certain lands located in the Town of Manchester, County of Ocean State of NJ, known and designated as Block, 116 Lot 13, and recorded in The Office of The Clerk of Ocean County, On 3-28-74, in Deed Book 3377, page 633, referred to as the property.

Grantor, hereby grants and conveys to Grantee Jersey Central Power & Light Co. d/b/a GPU Energy and Verizon of New Jersey Inc., both New Jersey Corporations, (the "Grantee") for valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound, has requested a permanent easement and uninterrupted right, from time to time, to construct, reconstruct, operate, inspect, renew, replace, improve, maintain, redesign, alter, relocate, extend and remove overhead, underground and ground level facilities described below (the "Facilities") as may be deemed necessary or convenient by Grantee for electric, CATV and communication purposes for the use and benefit of the Land and/or adjacent lands on, over, under and across along and beyond the property, the course of said facilities to run as follows:

This is for the right to set JC207268-40963 adjacent to and along the northerly side of Rte.70, on said property and in the bed of said street/road with the right to support said pole line with guys and anchors extending from said pole line onto said property.

The Facilities may include, without limitation, poles (with or without crossarms), guy wires, guy stubs, anchors, street lights and standards, transformers, transformer pads, switching compartments, conduits, conductors, ducts, wires, cables, fibers, pedestals, terminal boxes, manholes, hand-holes and other related equipment and apparatus from time to time deemed necessary or convenient by Grantee to accomplish the above purpose.

Grantor further grants and conveys to Grantee the right, from time to time, to trim, cut and/or remove such trees, tree branches, shrubs, roots, vegetation, structures and/or other objects or obstructions which in the sole judgment of the Grantee interfere with the installation of, or in the safe, proper or convenient use, maintenance, operation of, or access to, the Facilities including, without limitation, the removal of such trees, and/or tree branches which overhang or endanger any of the Facilities. Further, Grantee shall have the right to make such excavations to accomplish the above purposes and to enter upon the land without notice for all the purposes hereof.

Grantor covenants not to construct, place, maintain or use structures of any kind, or plant shrubs or trees within eight feet of either side of the center line of the underground Facilities, if any, as installed, raise or lower the ground elevation of the land above or beneath the Facilities; grow beneath overhead Facilities any vegetation or trees, except farm crops or other compatible species identified by Grantee; or obstruct access to, remove structural support from, divert or impound water to or on, or otherwise interfere with, the Facilities.

The rights and obligations hereunder shall be binding upon and inure to the benefit of the Grantor and Grantee and their heirs, executors, administrators, successors and assigns, Licensees and Lessees, as the case may be.

Witness/Attest

Marie S. Pellecchia
Clerk - Marie Pellecchia

Michael Fressola
Mayor - Michael Fressola

#00-360 OR BK 10379 PG 1870

RESOLUTION

A RESOLUTION OF THE TOWNSHIP OF MANCHESTER, COUNTY OF OCEAN, STATE OF NEW JERSEY, AUTHORIZING THE EXECUTION OF A RIGHT-OF-WAY AGREEMENT WITH RESPECT TO BLOCK 116, LOT 13

WHEREAS, there is presently on file in the office of the Township Clerk a proposed form of Right-of-Way Agreement to be entered into with the Jersey Central Power & Light Company d/b/a GPU Energy, with respect to certain municipally owned premises designated as Block 116, Lot 13; and,

WHEREAS, the Township Council has reviewed the terms and conditions of the Right-of-Way Agreement aforesaid and is satisfied with same.

NOW, THEREFORE, BE IT RESOLVED by the Township Council of the Township of Manchester, County of Ocean, State of New Jersey, as follows:

1. That the Mayor is authorized to execute and the Clerk to attest to the proposed Right-of-Way Agreement aforesaid.

2. That the Township Clerk shall forward a certified copy of this Resolution to the following:

   A. The Mayor;
   B. Business Administrator;
   C. All parties of interest.

CERTIFICATION

I, **MARIE S. PELLECCHIA,** Clerk of the Township of Manchester, County of Ocean, State of New Jersey, do hereby certify the foregoing to be a true and correct copy of a Resolution adopted by the Township Council on the 19th day of December, 2000.

IN WITNESS WHEREOF, I have hereunto set my hand and seal of this Township this day of ,2000.

Marie S. Pellecchia
MARIE S. PELLECCHIA
Township Clerk

STATE OF NEW JERSEY, COUNTY OF Ocean

I certify that on 12/21/00 Michael Fressola personally appeared before me and acknowledged to my satisfaction that he:

(a) He is the MAYOR OF Manchester, the municipality named in the attached instrument;

(b) He executed the instrument;

(c) He was authorized to execute the instrument on behalf of the Municipality; and

(d) He executed the instrument as the act of the corporation.

Elaine M. Anderson
Notary Public of New Jersey

My commission expires 6/14/04

County: Ocean

Dated: 12/21/00, W/R# 100176510

ELAINE M. ANDERSON
Notary Public of New Jersey
My Commission Expires 6/14/2004

RECORD AND RETURN TO:

GPU ENERGY
PO Box 276
Bayville, N.J. 08721

INSTR # 2023077768
OR BK 19512 PG 476
RECORDED 10/17/2023 08:37:31 AM
SCOTT M. COLABELLA, COUNTY CLERK
OCEAN COUNTY, NEW JERSEY

OCEAN COUNTY CLERK'S OFFICE
RECORDING DOCUMENT
COVER SHEET

SCOTT M. COLABELLA
OCEAN COUNTY CLERK
P.O. BOX 2191
TOMS RIVER, NJ 08754-2191
(732) 929-2110
www.oceancountyclerk.com

OFFICIAL USE ONLY

DATE OF DOCUMENT: (*Enter Date as follows:00/00/0000*)
09/22/2023

TYPE OF DOCUMENT: *(Select Doc Type from Drop-Down Box)*
NJ DEP PERMIT

OFFICIAL USE ONLY - REALTY TRANSFER FEE

FIRST PARTY NAME: *(Enter Last Name, First Name)*
Manchester Township

SECOND PARTY NAME: (*Enter Last Name, First Name*)

ALL ADDITIONAL PARTIES: *(Enter Last Name, First Name)*

RETURN NAME AND ADDRESS:
Manchester Township
c/o Carl Block – Township Administrator
1 Colonial Drive
Manchester Twp, NJ 08759

THE FOLLOWING SECTION IS REQUIRED FOR DEEDS ONLY

BLOCK: 116

LOT: 13

MUNICIPALITY: (*Select Municipality from Drop-Down Box*) MANCHESTER

CONSIDERATION: $ 0.00

MAILING ADDRESS OF GRANTEE: (*Enter Street Address, Town, State, Zip Code*)

Street Address 1 Colonial Drive Town Manchester State NJ Zip 08759

THE FOLLOWING SECTION IS FOR
ORIGINAL MORTGAGE BOOKING & PAGING INFORMATION FOR ASSIGNMENTS, RELEASES,
SATISFACTIONS, DISCHARGES & OTHER ORIGINAL MORTGAGE AGREEMENTS ONLY

ORIGINAL BOOK:

ORIGINAL PAGE:

OCEAN COUNTY CLERK'S OFFICE RECORDING DOCUMENT COVER SHEET

Please do not detach this page from the original document as it contains important recording information and is part of the permanent record.

(S) 85-cashiers

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Watershed And Land Management Program
Mail Code 501-02A
P.O. Box 420
Trenton, New Jersey 08625-0420
www.nj.gov/dep/landuse

SHAWN M. LATOURETTE
Commissioner

September 22, 2023

Manchester Township
c/o Carl Block – Township Administrator
1 Colonial Drive
Manchester Twp, NJ 08759

Re: Flood Hazard Area Verification-**Delineation of the Riparian Zone Only**
File No.: 1518-23-0002.1 LUP230001
Applicant: Manchester Township c/o Carl Block
Block(s) and Lot(s): [116, 13]
Municipality: Manchester Twp; County: Ocean

Dear Mr. Block:

This letter is in response to your request for a riparian zone only verification along Old Hurricane Brook at the above-referenced site. The Department has reviewed your application and hereby verifies the riparian zone limits on this site, as depicted on the approved plans described below.

The riparian zone extends 150 feet from the top of bank along both sides of the regulated water. If a discernible bank is not present along a regulated water, the riparian zone is measured in accordance with the definition of the top of bank at N.J.A.C. 7:13-1.2. This riparian zone width is due to T&E waters located within the same HUC-14 watershed.

Please note that altering land cover or topography in a flood hazard area, as well as clearing, cutting and/or removing vegetation within a riparian zone, is regulated by the Flood Hazard Area Control Act rules, and may be prohibited or restricted in some cases. A flood hazard area permit is required prior to undertaking any regulated activity within a flood hazard area or riparian zone described at N.J.A.C. 7:13-2.4. Some projects may qualify for a permit-by-rule at N.J.A.C. 7:13-7, a general permit by certification at N.J.A.C. 7:13-8, a general permit at N.J.A.C. 7:13-9, or an individual permit at N.J.A.C. 7:13-10. Projects situated entirely outside both the flood hazard area and riparian zone do not require a flood hazard area approval.

This verification is based on the best information presently available to the Department, and is subject to change if this information is no longer accurate or if additional information is made available to the Department including, but not limited to, information supplied by the applicant. **Please note that the Old Hurricane Brook at this location has an associated flood hazard area and/or floodway that is not verified as a part of this application.**

In accordance with section N.J.A.C. 7:13-5.3 (e), a person who is issued a verification pursuant to this subchapter shall be entitled to rely on the determination of the Department, concerning the presence, absence, or extent of flood hazard areas, riparian zones, or floodways for the term specified in this approval, unless the Department determines that the verification is based on inaccurate or incomplete information, in which case the Department may void the original verification and issue a new verification reflecting the actual conditions on the site. For example,

Book19512/Page477

NOTES

1. EXISTING TOPOGRAPHIC, PLANIMETRIC FEATURES, AND PROPERTY LINES SHOWN FROM ELECTRONIC FILE "MANCHESTER TOWNSHIP LOT CLEANUP.DWG" PREPARED BY COLLIERS ENGINEERING & DESIGN OF RED BANK, NEW JERSEY (COLLIERS) ON 15 OCTOBER 2021.
2. VERTICAL SITE DATUM IS IN FEET NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). HORIZONTAL DATUM IS NORTH AMERICAN DATUM 1983 (NAD 83) NEW JERSEY STATE PLANE.
3. LANDFILL BOUNDARY AND MONITORING WELL LOCATIONS FROM ELECTRONIC FILE PROVIDED BY COLLIERS ON 26 OCTOBER 2021. LANDFILL BOUNDARY BASED ON FIELD DELINEATION DESCRIBED IN MAURER CONSULTING P.A.'S 30 JANUARY 2020 LETTER REPORT "DELINEATION OF THE LANDFILL BOUNDARY."
4. OLD HURRICANE BROOK STREAM LOCATION FROM NATIONAL HYDROGRAPHY DATASET (NHD) BY U.S. GEOLOGICAL SURVEY (USGS). NORTH TRIBUTARY 1 AND NORTH TRIBUTARY 2 STREAM CENTER LINES AND DRAINAGE AREAS AND OLD HURRICANE BROOK TRIBUTARY DRAINAGE AREA FROM NEW JERSEY STREAMSTATS WEB TOOL BY U.S. GEOLOGICAL SURVEY.
5. THE REGULATORY FLOODWAY FOR OLD HURRICANE BROOK WAS BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NO. 34029C0041G, EFFECTIVE 16 SEPTEMBER 2015.
6. UTILITY STAKES AND LOCATIONS ARE FOR REFERENCE ONLY. CONTACT NEW JERSEY ONE CALL FOR A UTILITY MARKOUT PRIOR TO INITIATING EARTH DISTURBING ACTIVITIES. CONFIRM AND FIELD LOCATE ALL UTILITIES.
7. EXISTING CONDITIONS MAY DIFFER FROM THAT SHOWN DUE TO SITE OPERATION ACTIVITIES PERFORMED AFTER THE DATE OF THE SURVEY.
8. EXISTING MATERIAL STOCKPILES ON LANDFILL TO BE REMOVED TO ESTABLISH A RELATIVELY UNIFORM GRADE INTO WHICH THE FINAL COVER SYSTEM MAY BE TIED. EQUIPMENT AND MATERIALS OWNED BY MANCHESTER TOWNSHIP SHALL BE REMOVED BY MANCHESTER TOWNSHIP PRIOR TO THE WORK.
9. WATER ACCESS ROAD TO EXISTING GAUGE OUTSIDE THE LANDFILL BOUNDARY AT A SLOPE NO GREATER THAN 10 PERCENT.
10. PAVING AND REQUIRED DRAFT LANDFILL GAS VENTS TO BE INSTALLED TO THE BOTTOM OF WASTE OR PREPARATION OF CLOSURE CONSTRUCTION DOCUMENTS. GAS VENT INSTALLATION DEPTHS TO BE SELECTED DURING
11. FINAL ESTIMATE OF THE COMPOSTING AND RECYCLING WILL BE DETERMINED BY MANCHESTER TOWNSHIP PRIOR TO CONSTRUCTION. FINAL COVER SYSTEM IN THE COMPOSTING AND RECYCLING OPERATIONS AREAS WILL BE A MINIMUM THICKNESS OF TWENTY FEET OF COMPACTED SOIL.
12. RIPARIAN BUFFER ZONES ARE 150 FEET WIDE (ARE THE AREA CONTAINS DOCUMENTED HABITAT FOR TIMBER RATTLESNAKE).
13. THE STATE OF NEW JERSEY HAS DETERMINED THAT ALL OR A PORTION OF THIS LOT LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREA PIPE TRENCHES MAY BE REGULATED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT WATERSHED & LAKE MANAGEMENT AT (609) 777-0844 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.

FOR PERMIT DETERMINATION

DATE: MAY 2023	TITLE: FLOOD HAZARD AREA VERIFICATION SITE PLAN	Geosyntec consultants	DESIGN BY: MS						
PROJECT NO.: JS-0013.07	PROJECT: LANDFILL CLOSURE DESIGN		DRAWN BY: MAP						
FILE: JS0012.07 - C01	SITE: MANCHESTER TOWNSHIP LANDFILL MANCHESTER, NEW JERSEY		CHECKED BY: MS						
DRAWING NO.: 1 OF 1			REVIEWED BY: HKD/DS						
			APPROVED BY: TR						

the verification may be revised to reflect additional flood hazard areas or riparian zones identified after verification issuance; or if a threatened or endangered species habitat is disclosed or discovered after the verification was issued, the Department may correct the width of the riparian zone.

The approved drawing is prepared by Geosyntec Consultants, dated May 2023, unrevised, unless noted otherwise, and entitled:

"FLOOD HAZARD AREA VERIFICATION SITE PLAN, LANDFILL CLOSURE DESIGN, MANCHESTER TOWNSHIP LANDFILL, MANCHESTER, NEW JERSEY" sheet 1 of 1.

Within 90 calendar days of the date of this letter, the applicant shall submit the following information to the clerk of each county in which the site is located, and shall send proof to the Department that this information is recorded on the deed of each lot referenced in the verification:

1. The Department file number for the verification;
2. The approval and expiration dates of the verification;
3. The width and location of any riparian zone approved under the verification; and
4. The following statement: "The State of New Jersey has determined that all or a portion of this lot lies in a flood hazard area. Certain activities in flood hazard areas are regulated by the New Jersey Department of Environmental Protection and some activities may be prohibited on this site or may first require a permit. Contact Watershed & Land Management at (609) 777-0454 for more information prior to any construction onsite."

Failure to have this information recorded in the deed of each lot and/or to submit proof of recording to the Department constitutes a violation of the Flood Hazard Area Control Act rules and may result in suspension or termination of the verification and/or subject the applicant to enforcement action pursuant to N.J.A.C. 7:13-24.

A copy of this plan, together with the information upon which this boundary determination is based, has been made part of the Programs public records. Please note that this letter in no way legalizes any fill that may have been previously placed onsite, or any other regulated activities that may have previously occurred. Also this determination does not affect the applicant's responsibility to obtain any local, State or Federal permits that may be required, such as local building permits or freshwater wetlands approvals.

This verification is valid for five years from its issuance date and it can be transferred at the time of sale of a property to which the verification applies to a new owner pursuant to N.J.A.C. 7:13-22.4. Pursuant to N.J.A.C. 7:13-5.4(a), if the Department issues a verification for a site, and within five years issues a general permit authorization or an individual permit for a regulated activity that references or relies upon the verification at that site, the Department shall automatically reissue the verification upon approval of the permit or authorization so that the verification and permit or authorization have the same expiration date. This automatic reissuance shall occur only once per verification and there is no fee for this reissuance. The reissued verification shall reflect any alterations to the flood hazard area design flood elevation, flood hazard area limit and/or floodway limit that will result from the regulated activities authorized under the individual permit or general permit authorization. All pre-construction and post-construction elevations and limits shall be demarcated on drawings approved under the reissued verification.

In accordance with N.J.A.C. 7:13-23.1, any person who is aggrieved by this decision may request a hearing within 30 days after notice of the decision is published in the DEP Bulletin by writing to: New Jersey Department of Environmental Protection, Office of Legal Affairs, Attention: Adjudicatory Hearing Requests, Mail Code 401-04L, PO Box 402, 401 East State Street, 7th Floor, Trenton, NJ 08625-0402. This request shall include a completed copy of the Administrative Hearing Request Checklist. The DEP Bulletin is available through the Department's website at http://www.nj.gov/dep/ and the Checklist is available through the Program's website at http://www.nj.gov/dep/landuse/forms.html.

If you have any questions regarding this letter, please contact Andre Thompson by email at Andre.Thompson@dep.nj.gov or by phone at (609)322-9513. Please reference the Program's file number in all communication.

Sincerely,

Digitally Signed
2023.09.22
16:09:41-04'00'

Keith P. Stampfel, P.E.
Section Chief
Bureau of Flood Hazard and Stormwater Engineering

AGT

c: Agent - Hue Quan – hquan@geosyntec.com
Municipal Clerk:
Municipal Construction Official
Municipal Engineer

BOOK 3294 PAGE 262

106—DEED—QUITCLAIM IND. OR CORP. M U T I S D

COPYRIGHT© 1966 BY ALL-STATE LEGAL SUPPLY CO. 269 SHEFFIELD STREET, MOUNTAINSIDE, N.J. 07092

This Deed, made the 6th day of April 1973,

Between WILLIAM L. TOMPKINS and JAYNE TOMPKINS, His wife

213 Summit Avenue, Island Heights, New Jersey,

residing or located at in the of in the County of and State of herein designated as the Grantors,

And TOWNSHIP OF MANCHESTER, a municipal corporation of the State of New Jersey

~~residing~~ located at 1 Colonial Drive, Lakehurst in the Township of Manchester in the County of Ocean and State of New Jersey herein designated as the Grantees;

Witnesseth, that the Grantors, for and in consideration of None - To clear a title question

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents remise, release and forever Quitclaim unto the Grantees forever,

All that certain tract or parcel of land and premises, situate, lying and being in the Township of Manchester in the County of Ocean and State of New Jersey, more particularly described as follows:

BEGINNING at a point in the Northerly line of N.J. State Highway Route #70 at the point of Intersection of said Northerly line with the Westerly line of a tract now or formerly Ocean County Land Company, said Westerly line being the line of a tract of 341 Acres, before deductions, conveyed by John Karl, et als, to Ocean County Land Company, by deed dated August 15, 1910 and recorded at the Ocean County Clerk's Office March 1, 1911 in book 370 page 131, and from said beginning point running thence (1) North 9 degrees 42 minutes 25 seconds West 145.85 feet to a point thence (2) North 80 degrees East 1232.34 feet to a point thence (3) South 10 degrees East 381.80 feet to a point thence (4) South 84 degrees 32 minutes 43 seconds West 182.89 feet to a point in the Northerly line of N.J. State Highway Route #70 thence (5) along said Northerly line of N.J. State Highway Route #70 in a Westerly direction, 1073.86 feet to the point and place of beginning.

Containing 7.76 acres in accordance with survey by Ernst, Ernst, and Lisenden, Engineers and Surveyors, dated June, 1972.

Due to a mislocation on the ground, lands in question are shown on Map of Ocean County Land Company filed at the Ocean County February 28, 1911, file No. A-87, as a part of a tract of 54 acres known as the Pine Tavern tract. The Assessment Map of Manchester Township shows lands in question to be a part of said Pine Tavern tract and apparently has been assessed for many years as a part thereof.

Title to the Pine Tavern Tract was conveyed by Beachwood Park Co., Inc. by Arthur D. Herrick, sole surviving director and trustee, to Preferred Land Company, a New Jersey Corporation, by deed dated January 21, 1959 and recorded at the Ocean County Clerk's Office in Book 1955 page 59.

Casel Agency, Inc., a corporation of New Jersey, (Formerly known as Preferred Land Company), conveyed a ½ interest in said lands to William L. Tompkins and Jayne Tompkins, his wife, by deed dated August 14, 1961 and recorded in deed book 2165 page 165.

COUNTY OF OCEAN
CONSIDERATION None Exempt
REAL ESTATE TRANSFER FEE
DATE 4-12-73 BY

3294-262

1- Pine Tavern Tract
Filed map A-87
Acq 4-38 on
1948 TM

Together *with all and singular the buildings, improvements, ways, woods, waters, watercourses, rights, liberties, privileges, hereditaments and appurtenances to the same belonging or in anywise appertaining; and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and of every part and parcel thereof;* **And also** *all the estate, right, title, interest, use, possession, property, claim and demand whatsoever, of the Grantors both in law and in equity, of, in and to the premises herein described, and every part and parcel thereof, with the appurtenances.* **To Have and to Hold** *all and singular, the premises herein described, together with the appurtenances, unto the Grantees and to Grantees' proper use and benefit forever.*

In all references herein to any parties, persons, entities or corporations, the use of any particular gender or the plural or singular number is intended to include the appropriate gender or number as the text of the within instrument may require.

Wherever in this instrument any party shall be designated or referred to by name or general reference, such designation is intended to and shall have the same effect as if the words "heirs, executors, administrators, personal or legal representatives, successors and assigns" had been inserted after each and every such designation.

In Witness Whereof, *the Grantors have hereunto set their hands and seals, or if a corporation, it has caused these presents to be signed by its proper corporate officers and its corporate seal to be affixed hereto, the day and year first above written.*

Signed, Sealed and Delivered in the presence of or Attested by

WILLIAM L. TOMPKINS

Josephine W. Cipolletti

Jayne Tompkins
JAYNE TOMPKINS

State of New Jersey, County of Ocean } ss.: **Be it Remembered,**
that on April 6 *19* 73 *, before me, the subscriber,* a Notary Public of New Jersey
personally appeared WILLIAM L. TOMPKINS and JAYNE TOMPKINS

who, I am satisfied, are *the person* s *named in and who executed the within Instrument, and thereupon* they *acknowledged that* they *signed, sealed and delivered the same as* their *act and deed, for the uses and purposes therein expressed, and that the full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1 (c), is $* None - To clear a title question

Josephine W. Cipolletti
JOSEPHINE W. CIPOLLETTI
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Aug 17, 1974

State of New Jersey, County of } ss.: **Be it Remembered,**
that on *19* *, before me, the subscriber,*

personally appeared
who, being by me duly sworn on h *oath, deposes and makes proof to my satisfaction, that he is the* *Secretary of* *the Corporation named in the within Instrument; that* *is the President of said Corporation; that the execution, as well as the making of this Instrument, has been duly authorized by a proper resolution of the Board of Directors of the said Corporation; that deponent well knows the corporate seal of said Corporation; and that the seal affixed to said Instrument is the proper corporate seal and was thereto affixed and said Instrument signed and delivered by said* *President as and for the voluntary act and deed of said Corporation, in presence of deponent, who thereupon subscribed h* *name thereto as attesting witness. and that the full and actual consideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1(c), is $*

Sworn to and subscribed before me, the date aforesaid. }

Prepared by:

Morton C Steinberg

BOOK 3294 PAGE 264

014798

RECORDED
OCEAN COUNTY CLERK'S
OFFICE
'73 APR 12 PM 2 09

BOOK 3294 PAGE 262
OFFICE OF Deeds CLERK

Deed

WILLIAM L. TOMPKINS and
JAYNE TOMPKINS, his wife

TO

TOWNSHIP OF MANCHESTER,
a municipal corporation
of the State of New
Jersey

Dated April 6, 1973

STEINBERG & STEELE
COUNSELLORS AT LAW
1121 Madison Avenue
Lakewood, New Jersey

Ready

Photostated
Micro-filmed

DEED—QUITCLAIM
IND. OR CORP.

M U T I S D .

COPYRIGHT© 1966 BY ALL-STATE LEGAL SUPPLY CO.
269 FIELD STREET, MOUNTAINSIDE, N.J. 07092

BOOK 3377 PAGE 633

This Deed, made the 19TH day of ~~January~~ March 1974,

Between

CASEL AGENCY, Inc., a corporation of New Jersey, formerly known as Preferred Land Company

residing or located at in the of in the County of and State of herein designated as the Grantors,

And

TOWNSHIP OF MANCHESTER, a municipal corporation of the State of New Jersey

residing or located at 1 Colonial Drive, Lakehurst in the Township of Manchester in the County of Ocean and State of New Jersey herein designated as the Grantees;

Witnesseth, that the Grantors, for and in consideration of None-to clear a title question is the reason for this Deed.

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents remise, release and forever Quitclaim unto the Grantees forever,

All that certain tract or parcel of land and premises, situate, lying and being in the Township of Manchester in the County of Ocean and State of New Jersey, more particularly described as follows:

BEGINNING at a point in the Northerly line of New Jersey State Highway State #70 at the point of Intersection of said Northerly line with the Westerly line of a tract now or formerly Ocean County Land Company, said Westerly line being the line of a tract of 341 acres, before deductions, conveyed by John Karl, et als, to Ocean County Land Company, by deed dated August 15, 1910 and recorded at the Ocean County Clerk's Office March 1, 1911 in book 370 page 131, and from said beginning point running thence (1) North 9 degrees 42 minutes 25 seconds West 145.85 feet to a point thence (2) North 80 degrees East 1232.34 feet to a point thence (3) South 10 degrees East 381.80 feet to a point thence (4) South 84 degrees 32 minutes 43 seconds West 182.89 feet to a point in the Northerly line of N.J. State Highway Route #70 thence (5) along said Northerly line of N.J. State Highway Route #70 in a Westerly direction, 1073.86 feet to the point and place of beginning.

Containing 7.76 acres in accordance with survey by Ernst, Ernst, and Disenden, Engineers and Surveyors, dated June, 1972.

Due to a mislocation on the ground, lands in question are shown on map of Ocean County Land Company filed at the Ocean County February 28, 1911, file No. A-87, as a part of a tract of 54 acres known as the Pine Tavern tract. The Assessment Map of Manchester Township shows lands in question to be a part of said Pine Tavern tract and apparently has been assessed for many years as a part thereof.

Title to the Pine Tavern Tract was conveyed by Beachwood Park Co., Inc. by Arthur D. Herrick, sole surviving director and trustee, to Preferred Land Company, a New Jersey Corporation, by deed dated January 21, 1959 and recorded at the Ocean County Clerk's Office in Book 1955 page 59.

Casel Agency, Inc., a corporation of New Jersey, (Formerly known as Preferred Land Company), conveyed a ½ interest in said lands to William L. Tompkins and Jayne Tompkins, his wife, by deed dated August 14, 1961 and recorded in deed book 2165 page 165.

COUNTY OF OCEAN
CONSIDERATION ... None .....
REALTY TRANSFER FEE ... Exempt.
DATE 3-28-74 ... BY M.R. .....

TO

THOMAS S. O'DONNELL and
JOAN L. O'DONNELL, His Wife

Dated March 21, 1974

HANDELMAN & JACOBS
381 North Avenue
Dunellen, New Jersey
08812

No Metes & Bounds
OMNIBUS DEED

Recorded
Index
Photostat

OLD LTR

3377-633

Received for
DB
10374-1864

BOOK 3377 PAGE 634

Together *with all an[illegible]ngular the buildings, improvements, u[illegible], woods, waters, waterc[illegible] rights, liberties, privileges, hereditaments and appurtenances to the same belonging or in [illegible] appertaining; and the reversion and reversions, remainder and remainders, rents, issues and p[illegible] thereof, and of every part and parcel thereof;* **And also** *all the estate, right, title, interest, [illegible] session, property, claim and demand whatsoever, of the Grantors both in law and in equity, of, [illegible] to the premises herein described, and every part and parcel thereof, with the appurtenances. To [illegible]* **and to Hold** *all and singular, the premises herein described, together with the appurtenances, [illegible] the Grantees and to Grantees' proper use and benefit forever.*

In all references herein to any parties, persons, entities or corporations, the use of any par[illegible] gender or the plural or singular number is intended to include the appropriate gender or number as [illegible] text of the within instrument may require.

Wherever in this instrument any party shall be designated or referred to by name or genera[illegible] erence, such designation is intended to and shall have the same effect as if the words "heirs, ex[illegible] administrators, personal or legal representatives, successors and assigns" had been inserted after [illegible] and every such designation.

In Witness Whereof, *the Grantors have hereunto set their hands and seals, or if a corpor[illegible] it has caused these presents to be signed by its proper corporate officers and its corporate seal [illegible] affixed hereto, the day and year first above written.*

Signed, Sealed and Delivered in the presence of or Attested by

Casel Agency, Inc. (Former[illegible] known as Preferred Land C[illegible]
By: Edward Casel

James A. Casel
, Secretary

CASEL AGENCY

State of New Jersey, County of } ss.: **Be it Remembe[illegible]**
that on 19 , before me, the subscriber,

personally appeared

who, I am satisfied, the person named in and who executed the within Instrum[illegible] and thereupon acknowledged that signed, sealed and delivered the sa[illegible] act and deed, for the uses and purposes therein expressed, and that the full and actua[illegible] sideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as [illegible] consideration is defined in P.L. 1968, c. 49, Sec. 1 (c), is $

State of New Jersey, County of BRIDGEWATER } ss.: **Be it Remembe[illegible]**
that on January 17 *19* 74 *, before me, the subscriber,*
A Notary Public of the State of New Jersey
personally appeared
who, being by me duly sworn on h[illegible] oath, deposes and makes proof to my satisfaction, [illegible] he is the Secretary *of* Casel Agency, Inc. (formerly [illegible] as Preferred Land Company) *the Corporation named in the within Instrum[illegible] is the that President of said Corporation; that the execution, as well as the making of this Instrument, [illegible] been duly authorized by a proper resolution of the Board of Directors of the said Corporation; [illegible] deponent well knows the corporate seal of said Corporation; and that the seal affixed to [illegible] Instrument is the proper corporate seal and was thereto affixed and said Instrument signed [illegible] delivered by said President as and for the voluntary act and deed of said Corp[illegible] tion, in presence of deponent, who thereupon subscribed h[illegible] name thereto as attesting wit[illegible] and that the full and actual consideration paid or to be paid for the transfer of title to realty evi[illegible] by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1(c), is $* No Consi[illegible]

This Deed being given to clear a title question.

Sworn to and subscribed before me, the date aforesaid.

Barbara A. Fogarty — James A. Casel

BARBARA A. FOGARTY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires: August 9, 1976

Prepared by: Morton C. Steinberg, Esquire

Deed

Casel Agency, Inc., a corporation of New Jersey, formerly known as Preferred Land Company

TO

Township of Manchester, a municipal corporation of the State of New Jersey

Dated January 17 1974

RECORDED
JAN 28 PM 12 22
COUNTY CLERK'S

Book 3377 Page 633
Deed

RECEIVED
JAN 28 1974
REGISTER-OCEAN COUNTY

gular the buildings, improvements, w[illegible], woods, waters,
reditaments and appurtenances to the same belonging or in
n and reversions, remainder and remainders, rents, issues and
parcel thereof; And also all the estate, right, title, interest,
mand whatsoever, of the Grantors both in law and in equity,
l, and every part and parcel thereof, with the appurtenances.
he premises herein described, together with the appurtenances
proper use and benefit forever.

ny parties, persons, entities or corporations, the use of any
number is intended to include the appropriate gender or
ay require.
nt any party shall be designated or referred to by name or
ded to and shall have the same effect as if the words "heirs,
l representatives, succcssors and assigns" had been inserted

e Grantors have hereunto set their hands and seals, or if a
be signed by its proper corporate officers and its
first above written.

reb Casel Agency, Inc. (formerly
known as Preferred Land Co.
By: Edward Casel, Pres.

, Secretary

of } ss.: Be it Remembered
10 , before me, the subscriber,

the person named in and who executed the within Instrument,
owledged that signed, sealed and delivered the same as
uses and purposes therein expressed, and that the full and actual
the transfer of title to realty evidenced by the within deed, as
968, c. 49, Sec. 1 (c), is $

of BRIDGETON } ss.: Be it Remembered,
19 10 74 , before me, the subscriber,
of the State of New Jersey

on h oath, deposes and makes proof to my satisfaction, that
Secretary of Casel Agency, Inc. (formerly the
) the Corporation named in the within Instrument;
is the
that the execution, as well as the making of this Instrument, was
resolution of the Board of Directors of the said Corporation,
orate seal of said Corporation; and that the seal affixed to said
ate seal and was thereto affixed and said Instrument signed and
President as and for the voluntary act and deed of said Corporation,
ho thereupon subscribed h name thereto as attesting witness.
leration paid or to be paid for the transfer of title to realty evidenced
leration is defined in P.L. 1968, c. 49, Sec. 1(c), is $ No Consideration
o clear a title question.
me,

James A. Casel

EY
76
einberg, Esquire

Deed

Casel Agency, Inc., a corporation of New Jersey, formerly known as Preferred Land Company

TO

Township of Manchester, a municipal corporation of the State of New Jersey

Dated January 17 1974

Record and return to:

STEINBERG & STEELE, ESQS.
1121 MADISON AVENUE
LAKEWOOD, NEW JERSEY 08701

Gene Eby

FILED [illegible] COUNTY CLERK'S

'74 MAR 28 PM 12 22

Book 3377 Page 633

380 PAGE 364

sey, County of OCEAN } ss.: Be it Remembered
L 4 19 74 , before me, the subscriber, A Notary

MILDRED DALLIO BLOODWORTH and ELDRED BLOODWORTH, her

are the persons named in and who executed the within instru-
ey acknowledged that they signed, sealed and delivered the same
d ed, for the uses and purposes therein expressed, and that the full and actual
be paid for the transfer of title to realty evidenced by the within deed, as
ed in P.L. 1968, c. 49, Sec. 1 (c), is $35,000.00

TANZIONE, JR.
TON STREET
N. J. 08753

Barbara L. Vogelsong
BARBARA L. VOGELSONG
A Notary Public of New Jersey
My Commission Expires Feb. 14, 1978

TO
ARTHUR A. PECORARO and
MARY PECORARO, his wife

Dated February 28 1974

Record & Return to:
ALPHONSE A. STANZIONE, JR.
56 WASHINGTON STREET
TOMS RIVER, N. J. 08753

BOOK 3380 PAGE 365

FILED 012436
MAR 27 1974
HENRY H. WILEY
COUNTY JUDGE
OCEAN COUNTY

Steinberg & Steele
1121 Madison Avenue
Lakewood, New Jersey 08701
(201) 363-5800
Attorneys for Plaintiff

74 APR 10 PM 12 45

3380 365
Deed

TOWNSHIP OF MANCHESTER, in the County of Ocean, State of New Jersey, a Municipal Corporation, Plaintiff, vs. ANN SILVERMAN, and CASEL AGENCY, INC., a corporation of New Jersey, formerly known as Preferred Land Company, Defendants.	SUPERIOR COURT OF NEW JERSEY CHANCERY DIVISION OCEAN COUNTY Docket No. C-3881-72 Civil Action ORDER FOR JUDGMENT BY DEFAULT AGAINST DEFENDANT ANN SILVERMAN

This action coming on to be heard in the presence of SIEGFRIED W. STEELE, for the firm of Steinberg & Steele, Attorneys for the Plaintiff, and no one appearing for the Defendant, ANN SILVERMAN, and it appearing therefrom that the summons and complaint in the above entitled actic·· having been duly served on the defendant ANN SILVERMAN and said defendant ANN SILVERMAN having defaulted for failure to appear in the action within the time prescribed by the rules of procedure and it further appearing that Request to Enter Default and Certification was filed against defendant, ANN SILVERMAN in

3380-365

P/O PLAIN TOWN MART

in the Superior Court, Chancery Division, on August 2, 1973, a that a Stipulation of Dismissal of the matter as to Defendant CASEL AGENCY, INC. was entered into by and between counsel for Plaintiff and Defendant CASEL AGENCY, INC.;

And in view of the fact that Defendant CASEL AGEN INC. delivered a Quit-Claim Deed to Plaintiff releasing its interest in the lands described in the Complaint and in this Judgment;

And it further appearing that the Plaintiff has been in peaceable possession of lands described in the Compl and is entitled to maintain its action to settle the title and clear up all doubts and disputes concerning the same and it appearing that Defendant ANN SILVERMAN never paid any muni cipal taxes and assessments against said lands and premises or that the same was not on the tax rolls in view of the fact tha the title of property was in the name of the Plaintiff and it further appearing to the Court that the Plaintiff is entitled to the relief sought in its Complaint against Defendant ANN SILVERMAN;

It is on this 27th day of March 1974, adjudged that the Defendant ANN SILVERMAN has no estate interest in or encumbrances or lien upon, the lands and pre hereinafter described or any part thereof.

It is further adjudged that as to described in the Complaint, hereinafter desc relates to any claim therein by or on behal ANN SILVERMN, the title of the plaintiff, TO in and to the same is hereby determined, fixe declared to be good. ~~Valid, effective and free of~~

All that certain tract or parcel premises situtate, lying and bei Township of Manchester, in the C and State of New Jersey, more pa scribed as follows:

Beginning at a point in the Nort N. J. State Highway Route #70 at Intersection of said Northerly l Westerly line of a tract now or County Land Company, said wester the line of a tract of 341 acres tions conveyed by John Karl, et County Land Company, deed dated and recorded at the Ocean County March 1, 1911 in Book 370 Page 1 beginning point running thence (42 minutes 25 seconds West 145.8 thence (2) North 80 degrees East point thence (3) South 10 degree to a point thence (4) South 84 d to a point thence (4) South 84 d 43 seconds West 182.89 feet to a Northerly line of N. J. State Hi thence (5) along said Northerly Highway Route #70 in a westerly feet to the point and place of

Containing 7.76 acres in accord by Ernst, Ernst, and Lisenden, veyors dated June, 1972.

/s/ Tekny

rior Court, Chancery Division, on August 2, 197[illegible]
ulation of Dismissal of the matter as to Defendant
Y, INC. was entered into by and between counsel f[illegible]
nd Defendant CASEL AGENCY, INC.;

And in view of the fact that Defendant CASEL AGEN[illegible]
ered a Quit-Claim Deed to Plaintiff releasing its
a the lands described in the Complaint and in this

And it further appearing that the Plaintiff has
aceable possession of lands described in the Complai[illegible]
itled to maintain its action to settle the title
up all doubts and disputes concerning the same and
ng that Defendant ANN SILVERMAN never paid any taxe[illegible]
s and assessments against said lands and premises and
same was not on the tax rolls in view of the fact that
of property was in the name of the Plaintiff and it
ppearing to the Court that the Plaintiff is entitled
lief sought in its Complaint against Defendant ANN
;

It is on this 27th day of May
udged that the Defendant ANN SILVERMAN has no estate,
in or encumbrances or lien upon, the lands and premises
er described or any part thereof.

It is further adjudged that as to all of the lands described in the Complaint, hereinafter described, so far as it relates to any claim therein by or on behalf of the defendant ANN SILVERMAN, the title of the plaintiff, TOWNSHIP OF MANCHESTER, in and to the same is hereby determined, fixed and settled and declared to be good ~~and forever in fee simple~~:

All that certain tract or parcel of land and premises situtate, lying and being in the Township of Manchester, in the County of Ocean and State of New Jersey, more particularly described as follows:

Beginning at a point in the Northerly line of N. J. State Highway Route #70 at the point of Intersection of said Northerly line with the Westerly line of a tract now or formerly Ocean County Land Company, said westerly line being the line of a tract of 341 acres, before deductions conveyed by John Karl, et als, to Ocean County Land Company, deed dated August 15, 1910 and recorded at the Ocean County Clerk's Office March 1, 1911 in Book 370 Page 131, and from said beginning point running thence (1) North 9 degrees 42 minutes 25 seconds West 145.85 feet to a point thence (2) North 80 degrees East 1232.34 feet to a point thence (3) South 10 degrees East 381.80' to a point thence (4) South 84 degrees 32 minutes to a point thence (4) South 84 degrees 32 minutes 43 seconds West 182.89 feet to a point in the Northerly line of N. J. State Highway Route #70 thence (5) along said Northerly line of N.J. State Highway Route #70 in a westerly direction, 1073.86 feet to the point and place of beginning.

Containing 7.76 acres in accordance with survey by Ernst, Ernst and Lisenden, Engineers and Surveyors dated June, 1972.

/s/ Edward H. Wilson
Judge

BOOK 3978 PAGE 171

ORIGINAL FILED
Jan 13, 1980
LEWIS BAMBRICK
Clerk

SIEGFRIED W. STEELE, ESQUIRE
1121 Madison Avenue
Lakewood, New Jersey 08701
(201) 363-5800
Attorney for Plaintiff

SUPERIOR COURT OF NEW JERSEY
CHANCERY DIVISION
OCEAN COUNTY
DOCKET NO. C 3699-79

Civil Action

AMENDED FINAL JUDGMENT

THE TOWNSHIP OF MANCHESTER, County of Ocean, State of New Jersey, a municipal corporation,

Plaintiff,

vs.

JOAN LAUBE and TULLIO LAUBE, husband and wife; CATHERINE SINISI and ARMAND SINISI, husband and wife; JOSEPH ROCCAFORTE and MARGHERITA ROCCAFORTE, husband and wife; SALVATORE ROCCAFORTE and ANGELINA ROCCAFORTE, husband and wife; ANN SILVERMAN; and STATE OF NEW JERSEY,

Defendants.

RECORDED
OCEAN COUNTY
CLERK'S OFFICE
JAN 28 10 03 AM '81
3978 PAGE 171
002933

This matter having been opened to the Court by Siegfried W. Steele, Esquire, attorney for the plaintiff, TOWNSHIP OF MANCHESTER; and it appearing that Summons and Complaint has been duly issued and returned served on the defendants, JOAN LAUBE and TULLIO LAUBE, husband and wife; CATHERINE SINISI and ARMAND SINISI, husband and wife; JOSEPH ROCCAFORTE and MARGHERITA

NO OTHER Final Judgment FOUND

3978-171

ROCCAFORTE, husband and wife; SALVATORE ROCCAFORTE and ANGELINA ROCCAFORTE, husband and wife; and ANN SILVERMAN;

And it further appearing that Notice and Complaint were duly issued and returned served on defendant, STATE OF NEW JERSEY;

And it further appearing that the defendants, ANN SILVERMAN and STATE OF NEW JERSEY having failed to file an answer or otherwise appear within the time limited by law in said cause, but have wholly failed to do so, and default having been entered against them;

And it further appearing that Edward F. Liston, Jr., Esq. of the firm of Carluccio & Liston, attorney for defendants, JOAN LAUBE and TULLIO LAUBE, husband and wife; CATHERINE SINISI and ARMAND SINISI, husband and wife; JOSEPH ROCCAFORTE and MARGHERITA ROCCAFORTE, husband and wife; SALVATORE ROCCAFORTE and ANGELINA ROCCAFORTE, husband and wife, having filed an Answer and Counterclaim;

And it further appearing that an Affidavit has been duly presented proving the allegations of the Complaint and Counterclaim; and the court being of the opinion that a genuine dispute of title is in issue in this action; and the parties having amicably adjusted their dispute and conflicting claims of title;

and the parties by their respective attorneys, Edward F. Liston, Jr., Esq, and Siegfried W. Steele, Esq., having consented to the entry of this Judgment:

It is thereupon, on this 7th day of Jan, 1981 on Motion of Siegfried W. Steele, Esq., attorney for plaintiff, ORDERED and ADJUDGED that the defendants, JOAN LAUBE and TULLIO LAUBE, husband and wife; CATHERINE SINISI and ARMAND SINISI, husband and wife; JOSEPH ROCCAFORTE and MARGHERITA ROCCAFORTE, husband and wife; SALVATORE ROCCAFORTE and ANGELINA ROCCAFORTE, husband and wife, have no estate, interest or right in, or lien or encumbrance upon the said lands and premises or any part thereof as more specifically set forth herein;

And it is FURTHER ORDERED and ADJUDGED that as to all of the lands and premises situate in the Township of Manchester, County of Ocean, and State of New Jersey, and more particularly described as follows:

BEG. AT A CONC MON. FD. IN THE NLY R/W LINE OF STATE OF N.J. HWY RTE. 70; SAID MON. ALSO BEING IN A ELY LINE OF FORT DIX MILITARY RESERVATION, THENCE

(1) ALONG SAID MILITARY RESERVATION LINE IN A NLY DIRECTION. N.10 Deg. 34 min. 44 sec. W. 2160.40 Ft. TO A PT. IN SAID LINE., THENCE

(2) ALONG THE THIRD COURSE OF A 57.96 Ac. TRACT AS DESCRIBED IN DEED BK, S-22, PG. 288. N. 79 Deg.

UT13

PART I

25 Min. 23 Sec. E. 1732.29 Ft. to a PT., IN SAID LINE, THENCE

(3) ALONG THE SECOND COURSE OF A 18.31 AC. TRACT AS DESCRIBED IN DEED BK S-22, PG. 261. S. 36 Deg. 01 Min. 30 Sec. E. 591.75 Ft. to a PT., IN SAID LINE, THENCE

(4) ON A NEW LINE, S. 03 Deg. 30 Min. 00 Sec. W. 1994.12 Ft. to a STK SET IN THE NLY R/W. LINE OF STATE HWY RTE. 70., THENCE

(5) ALONG SAID NLY R/W LINE OF STATE HWY RTE. 70, N. 88 Deg. 58 Min. 14 Sec. W. 1532.76 Ft. to the PT. and Place of Beg.

Containing 94.94 Acres.

UT13

So far as relates to any claim thereon by or on behalf of said defendants, the title of said plaintiff in and to the same or any part thereof is hereby determined, fixed, settled and declared to be good;

And it is FURTHER ORDERED AND ADJUDGED that the said plaintiff, TOWNSHIP OF MANCHESTER, has no estate, interest or right in or lien or encumbrance upon the lands and premises more particularly hereinafter set forth;

And it is FURTHER ORDERED AND ADJUDGED as to all of the lands and premises hereinafter set forth situate in the Township of Manchester, County of Ocean, State of New Jersey, more particularly described as follows:

Tract 2

BEG. AT A PT. BEING DISTANT 2160.40 FT. ON A COURSE N. 10 Deg. 34 Min. 44 Sec. W. FROM A CONC. MON FD. IN THE NLY R/W LINE OF STATE OF N.J. HWY RTE. 70; SAID MON ALSO BEING IN A ELY LINE OF FORT DIX MILITARY RESERVATION, THENCE

(1) CONTINUING ALONG THE LINE OF THE FORT FIX MILITARY RESERVATION N. 10 Deg. 34 Min. 44 Sec. W. 2355.32 FT. TO A PT. BEING IN THE LINE OF LANDS FORMERLY DEBORAH PLATT; THENCE

(2) ALONG A SLY LINE OF LANDS FORMERLY D. PLATT; S. 65 Deg. 55 Min. 44 Sec. E 2878.94 FT. TO A PT.; THENCE

(3) S. 34 Deg. 41 Min. 43 Sec. E. 386.36 FT. TO THE BEG. COR. OF A 57.96 Ac. TRACT RETURNED TO ROBERT W. RUTHERFORD IN DEED BK S-22, PG. 228, THENCE

(4) S. 20 Deg. 28 Min. 15 Sec. E. 371.44 FT. TO THE BEG COR OF A 18.31 Ac. TRACT AS DESCRIBED IN DEED BK S-22 PG. 261, THENCE

(5) S. 22 Deg. 20 Min. 46 Sec. E. 996.18 FT. TO THE FOURTH COR OF SAID 18.31 AC. TRACT., THENCE.

(6) S. 23 Deg. 50 Min. 26 Sec. E. 675.75 FT. TO THE N/E COR OF SCHLEY ST. & LINCOLN AVE. AS SHOWN ON A CERTAIN MAP ENTITLED " OCEAN COUNTY LAND CO. WHITINGS, N.J. TRACT 1 ", THENCE

(7) ALONG THE ELY LINE OF SCHLEY ST. S. 03 Deg. 30 Min. 00Sec. W. 867.86 FT. to a pt. in the SLY LINE OF LANDS NOW OR FORMERLY OCEAN COUNTY LAND CO. TRACT 1, THENCE

(8) ALONG THE SAME, S. 89 Deg. 06 Min. 59 Sec. W. 93.51 FT. TO A COR TO SAME. THENCE.

(9) ALONG A ELY LINE OF OCEAN COUNTY LAND CO., TRACT 1, S. 05 Deg. 06 Min. 59 Sec. W. 166.28 FT. TO A PT. IN THE NLY R/W LINE OF STATE OF N.J. HWY 70, THENCE.

(10) ALONG SAID NLY R/W LINE IN A WLY DIRECTION ON A CURVE HAVING A RADIUS OF 5689.85 FT. CURVING TO THE RIGHT 917.13 FT. ARC DISTANCE TO THE POINT OF CURVATURE., THENCE

(11) CONTINUING ALONG SAID NLY R/W LINE OF RTE 70, N. 88 Deg 58 Min. 14 Sec. W. 193.12 FT. TO A PT., THENCE

(12) ON A NEW LINE, N. 03 Deg. 30 Min. 00 Sec. E. 1994.32 FT. TO A PT. IN THE SECOND LINE OF A 18.31 AC. TRACT AS DESCRIBED IN DEED BK S-22, PG. 261, THENCE

(13) ALONG SAME, N. 36 Deg. 01 Min. 30 Sec. W. 591.75 FT. TO THE SECOND COR OF SAID 18.31 AC. TRACT BEING IN THE THIRD LINE OF A 57.96 AC. TRACT DESCRIBED IN DEED BK S-22 Pg. 228, THENCE

(14) ALONG SAID THIRD LINE OF 57.96 AC. TRACT, S. 79 Deg. 25 Min. 23 Sec. W. 1732.29 FT. TO THE POINT AND PLACE OF BEG.; CONTAINING 146.08 ACRES.

So far as relates to any claim thereon by or on behalf of said plaintiff, TOWNSHIP OF MANCHESTER, the title of said defendants in and to the same or any part thereof is hereby determined, fixed, settled, and declared to be good.

/s/ Henry H. Wiley
HENRY H. WILEY, J.S.C.

Consent is hereby given to the above.

SIEGFRIED W. STEELE

CARLUCCIO & LISTON

By
EDWARD F. LISTON, JR.

BOOK 3978 PAGE 177

SUPERIOR COURT OF NEW JERSEY
CHANCERY DIVISION, OCEAN COUNTY

THE TOWNSHIP OF MANCHESTER :

Plaintiff, :

vs : CERTIFICATION

JOAN LAUBE AND TULLIO LAUBE, husband and wife; :

Defendant. :

I, W. Lewis Bambrick, Clerk of the Superior Court of New Jersey, the same being a court of record, do hereby certify that the foregoing is a true copy of AMENDED FINAL JUDGMENT now on file in my office.

In testimony whereof, I have hereunto set my hand and the seal of the court this 19th day of JANUARY, 19 81.

W. Lewis Bambrick
Clerk

Clerk

Property Detail Report

For Property Located At :
1501 HIGHWAY 70, MANCHESTER TOWNSHIP, NJ 08759

CoreLogic RealQuest

Owner Information

Owner Name:	MANCHESTER TOWNSHIP
Mailing Address:	1 COLONIAL DR, MANCHESTER NJ 08759-6501 C039
Vesting Codes:	//

Location Information

Legal Description:	16 98.64AC		
County:	OCEAN, NJ	APN:	19-00116-0000-00013
Census Tract / Block:	7201.05 / 1	Alternate APN:	
Township-Range-Sect:		Subdivision:	
Legal Book/Page:		Map Reference:	116 / 13
Legal Lot:	13	Tract #:	
Legal Block:	116	School District:	19
Market Area:		School District Name:	MANCHESTER TOWNSHIP SD
Neighbor Code:		Munic/Township:	MANCHESTER TWP

Owner Transfer Information

Recording/Sale Date:	/	Deed Type:	
Sale Price:		1st Mtg Document #:	
Document #:			

Last Market Sale Information

Recording/Sale Date:	/	1st Mtg Amount/Type:	/
Sale Price:		1st Mtg Int. Rate/Type:	/
Sale Type:		1st Mtg Document #:	
Document #:		2nd Mtg Amount/Type:	/
Deed Type:		2nd Mtg Int. Rate/Type:	/
Transfer Document #:		Price Per SqFt:	
New Construction:		Multi/Split Sale:	
Title Company:			
Lender:			
Seller Name:			

Prior Sale Information

Prior Rec/Sale Date:	/	Prior Lender:	
Prior Sale Price:		Prior 1st Mtg Amt/Type:	/
Prior Doc Number:		Prior 1st Mtg Rate/Type:	/
Prior Deed Type:			

Property Characteristics

Year Built / Eff:	/	Total Rooms/Offices		Garage Area:	
Gross Area:		Total Restrooms:		Garage Capacity:	
Building Area:		Roof Type:		Parking Spaces:	
Tot Adj Area:		Roof Material:		Heat Type:	
Above Grade:		Construction:		Air Cond:	
# of Stories:		Foundation:		Pool:	
Other Improvements:		Exterior wall:		Quality:	
		Basement Area:		Condition:	

Site Information

Zoning:	PPA	Acres:	98.64	County Use:	
Lot Area:	4,296,758	Lot Width/Depth:	x	State Use:	PUBLIC PROPERTY (15C)
Land Use:	PUBLIC (NEC)	Res/Comm Units:	/	Water Type:	
Site Influence:				Sewer Type:	

Tax Information

Total Value:	$671,100	Assessed Year:	2025	Property Tax:	
Land Value:	$540,600	Improved %:	19%	Tax Area:	19
Improvement Value:	$130,500	Tax Year:		Tax Exemption:	MUNICIPAL/CITY-CTY-STATE
Total Taxable Value:	$671,100				

NJTaxMaps.com

Thursday, May 15, 2025
Detailed Property Report

MANCHESTER TOWNSHIP
1501 HWY 70
Whiting, NJ 08759

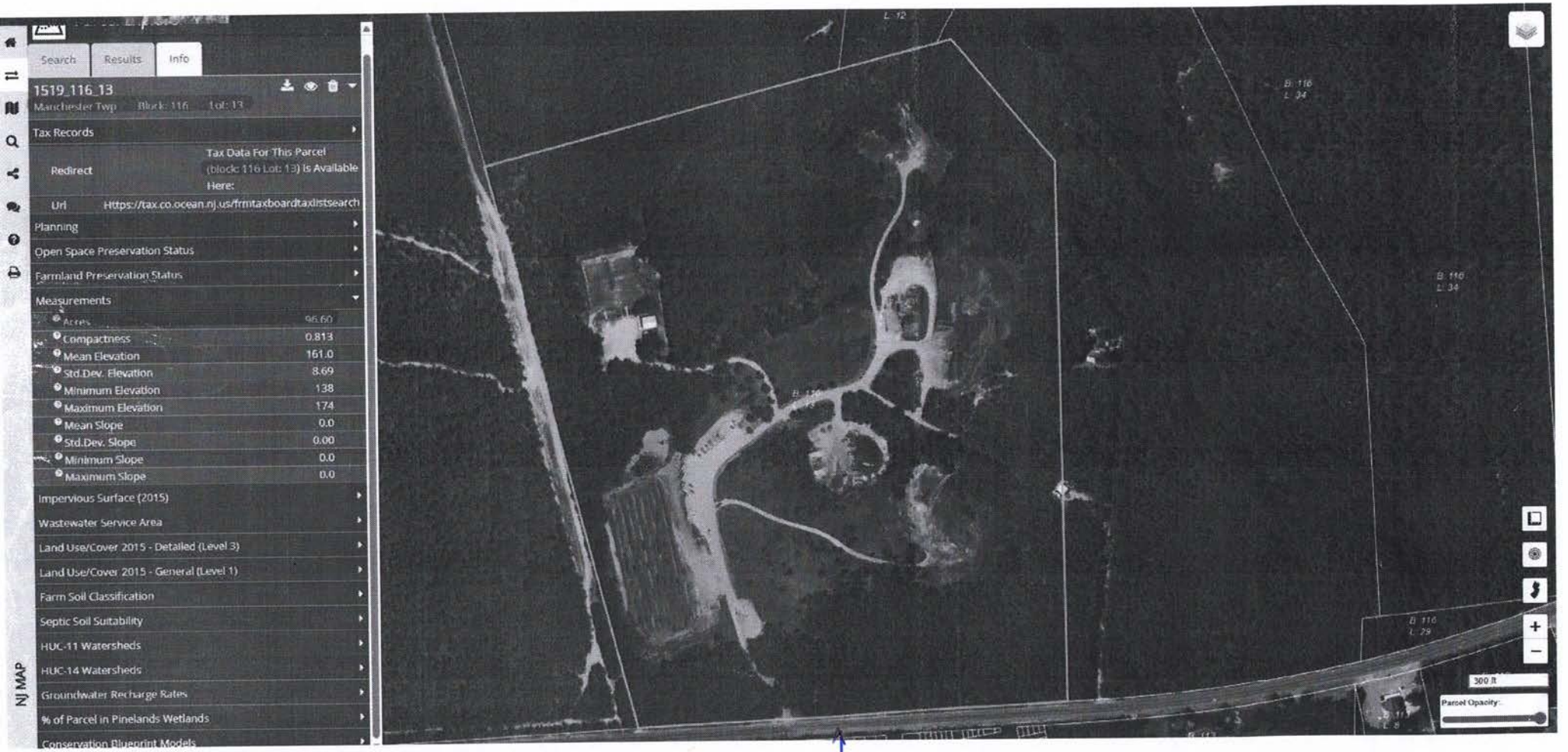
Mailing Address
1 COLONIAL DR
MANCHESTER NJ 08759

County: **OCEAN**
Town: **Manchester Township**
Block: **116**
Lot: **13 - 16**
Qualifier:

Tax Information			
Land Value:	**$280,100**	Property Type:	**Public**
Imp. Value:	**$104,700**	Assessment Year:	**2004**
Total Assessment:	**384800**	Tax Year:	**2022**
Property Tax:	**9446.84**	Town Tax Rate:	

Property Description			
Zoning:	**PPA**	Building Description:	**LANDFILL**
Lot Size:	**98.64AC**	Year Built:	**0**
Land Sq. Ft.:	**4296758**	Building Sq. Ft.:	
Acres:	**98.64**	Num. Stories:	**2**

Sales History			
Deed Book:	Rec. Date:	Sales Price:	Buyer:
Deed Page:	Deed Date:		Seller:


Search
Results
Info
1519_116_13
Manchester Twp Block: 116 Lot: 13
Tax Records
Redirect
Tax Data For This Parcel (block: 116 Lot: 13) is Available Here:
Url
Https://tax.co.ocean.nj.us/frmtaxboardtaxlistsearch
Planning
Open Space Preservation Status
Farmland Preservation Status
Measurements
Acres 96.60
Compactness 0.813
Mean Elevation 161.0
Std.Dev. Elevation 8.69
Minimum Elevation 138
Maximum Elevation 174
Mean Slope 0.0
Std.Dev. Slope 0.00
Minimum Slope 0.0
Maximum Slope 0.0
Impervious Surface (2015)
Wastewater Service Area
Land Use/Cover 2015 - Detailed (Level 3)
Land Use/Cover 2015 - General (Level 1)
Farm Soil Classification
Septic Soil Suitability
HUC-11 Watersheds
HUC-14 Watersheds
Groundwater Recharge Rates
% of Parcel in Pinelands Wetlands
Conservation Blueprint Models
NJ MAP
L 12
B 116 L 34
B 116 L 34
B 116 L 79
300 ft
Parcel Opacity:

LT 13

DEED—QUITCLAIM
IND. OR CORP.

M U T I S D .

COPYRIGHT© 1966 BY ALL-STATE LEGAL SUPPLY CO.
269 FIELD STREET, MOUNTAINSIDE, N.J. 07092

BOOK 3377 PAGE 633

This Deed, made the 19TH day of ~~January~~ March 1974,

Between

CASEL AGENCY, Inc., a corporation of New Jersey, formerly known as Preferred Land Company

residing or located at in the of in the County of and State of herein designated as the Grantors,

And

TOWNSHIP OF MANCHESTER, a municipal corporation of the State of New Jersey

residing or located at 1 Colonial Drive, Lakehurst in the Township of Manchester in the County of Ocean and State of New Jersey herein designated as the Grantees;

Witnesseth, that the Grantors, for and in consideration of None-to clear a title question is the reason for this Deed.

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents remise, release and forever Quitclaim unto the Grantees forever,

All that certain tract or parcel of land and premises, situate, lying and being in the Township of Manchester in the County of Ocean and State of New Jersey, more particularly described as follows:

BEGINNING at a point in the Northerly line of New Jersey State Highway State #70 at the point of Intersection of said Northerly line with the Westerly line of a tract now or formerly Ocean County Land Company, said Westerly line being the line of a tract of 341 acres, before deductions, conveyed by John Karl, et als, to Ocean County Land Company, by deed dated August 15, 1910 and recorded at the Ocean County Clerk's Office March 1, 1911 in book 370 page 131, and from said beginning point running thence (1) North 9 degrees 42 minutes 25 seconds West 145.85 feet to a point thence (2) North 80 degrees East 1232.34 feet to a point thence (3) South 10 degrees East 381.80 feet to a point thence (4) South 84 degrees 32 minutes 43 seconds West 182.89 feet to a point in the Northerly line of N.J. State Highway Route #70 thence (5) along said Northerly line of N.J. State Highway Route #70 in a Westerly direction, 1073.86 feet to the point and place of beginning.

Containing 7.76 acres in accordance with survey by Ernst, Ernst, and Disenden, Engineers and Surveyors, dated June, 1972.

Due to a mislocation on the ground, lands in question are shown on map of Ocean County Land Company filed at the Ocean County February 28, 1911, file No. A-87, as a part of a tract of 54 acres known as the Pine Tavern tract. The Assessment Map of Manchester Township shows lands in question to be a part of said Pine Tavern tract and apparently has been assessed for many years as a part thereof.

Title to the Pine Tavern Tract was conveyed by Beachwood Park Co., Inc. by Arthur D. Herrick, sole surviving director and trustee, to Preferred Land Company, a New Jersey Corporation, by deed dated January 21, 1959 and recorded at the Ocean County Clerk's Office in Book 1955 page 59.

Casel Agency, Inc., a corporation of New Jersey, (Formerly known as Preferred Land Company), conveyed a ½ interest in said lands to William L. Tompkins and Jayne Tompkins, his wife, by deed dated August 14, 1961 and recorded in deed book 2165 page 165.

COUNTY OF OCEAN
CONSIDERATION ... None .....
REALTY TRANSFER FEE ... Exempt.
DATE 3-28-74 ... BY M.R. .....

TO

THOMAS S. O'DONNELL and
JOAN L. O'DONNELL, His Wife

Dated March 21, 1974

HANDELMAN & JACOBS
381 North Avenue
Dunellen, New Jersey
08812

No Metes & Bounds
OMNIBUS DEED

Recorded
Index
Photostat

OLD LTR

3377-633

Received for
DB
10374-1864

BOOK 3377 PAGE 634

Together *with all an[illegible]ngular the buildings, improvements, u[illegible], woods, waters, waterc[illegible] rights, liberties, privileges, hereditaments and appurtenances to the same belonging or in [illegible] appertaining; and the reversion and reversions, remainder and remainders, rents, issues and p[illegible] thereof, and of every part and parcel thereof;* **And also** *all the estate, right, title, interest, [illegible] session, property, claim and demand whatsoever, of the Grantors both in law and in equity, of, [illegible] to the premises herein described, and every part and parcel thereof, with the appurtenances. To [illegible]* **and to Hold** *all and singular, the premises herein described, together with the appurtenances, [illegible] the Grantees and to Grantees' proper use and benefit forever.*

In all references herein to any parties, persons, entities or corporations, the use of any par[illegible] gender or the plural or singular number is intended to include the appropriate gender or number as [illegible] text of the within instrument may require.

Wherever in this instrument any party shall be designated or referred to by name or genera[illegible] erence, such designation is intended to and shall have the same effect as if the words "heirs, ex[illegible] administrators, personal or legal representatives, successors and assigns" had been inserted after [illegible] and every such designation.

In Witness Whereof, *the Grantors have hereunto set their hands and seals, or if a corpor[illegible] it has caused these presents to be signed by its proper corporate officers and its corporate seal [illegible] affixed hereto, the day and year first above written.*

Signed, Sealed and Delivered in the presence of or Attested by

Casel Agency, Inc. (Former[illegible] known as Preferred Land C[illegible]
By: Edward Casel

James A. Casel
, Secretary

CASEL AGENCY

State of New Jersey, County of } ss.: **Be it Remembe[illegible]**
that on 19 , before me, the subscriber,

personally appeared

who, I am satisfied, the person named in and who executed the within Instrum[illegible] and thereupon acknowledged that signed, sealed and delivered the sa[illegible] act and deed, for the uses and purposes therein expressed, and that the full and actua[illegible] sideration paid or to be paid for the transfer of title to realty evidenced by the within deed, as [illegible] consideration is defined in P.L. 1968, c. 49, Sec. 1 (c), is $

State of New Jersey, County of BRIDGEWATER } ss.: **Be it Remembe[illegible]**
that on January 17 *19* 74 *, before me, the subscriber,*
A Notary Public of the State of New Jersey
personally appeared
who, being by me duly sworn on h[illegible] oath, deposes and makes proof to my satisfaction, [illegible] he is the Secretary *of* Casel Agency, Inc. (formerly [illegible] as Preferred Land Company) *the Corporation named in the within Instrum[illegible] is the that President of said Corporation; that the execution, as well as the making of this Instrument, [illegible] been duly authorized by a proper resolution of the Board of Directors of the said Corporation; [illegible] deponent well knows the corporate seal of said Corporation; and that the seal affixed to [illegible] Instrument is the proper corporate seal and was thereto affixed and said Instrument signed [illegible] delivered by said President as and for the voluntary act and deed of said Corp[illegible] tion, in presence of deponent, who thereupon subscribed h[illegible] name thereto as attesting wit[illegible] and that the full and actual consideration paid or to be paid for the transfer of title to realty evi[illegible] by the within deed, as such consideration is defined in P.L. 1968, c. 49, Sec. 1(c), is $* No Consi[illegible]

This Deed being given to clear a title question.

Sworn to and subscribed before me, the date aforesaid.

Barbara A. Fogarty — James A. Casel

BARBARA A. FOGARTY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires: August 9, 1976

Prepared by: Morton C. Steinberg, Esquire

Deed

Casel Agency, Inc., a corporation of New Jersey, formerly known as Preferred Land Company

TO

Township of Manchester, a municipal corporation of the State of New Jersey

Dated January 17 1974

RECORDED
JAN 28 PM 12 22
COUNTY CLERK'S

Book 3377 Page 633
Deed

RECEIVED
JAN 28 1974
REGISTER-OCEAN COUNTY

gular the buildings, improvements, w[illegible], woods, waters,
reditaments and appurtenances to the same belonging or in
n and reversions, remainder and remainders, rents, issues and
parcel thereof; And also all the estate, right, title, interest,
mand whatsoever, of the Grantors both in law and in equity,
l, and every part and parcel thereof, with the appurtenances.
he premises herein described, together with the appurtenances
proper use and benefit forever.

ny parties, persons, entities or corporations, the use of any
number is intended to include the appropriate gender or
ay require.
nt any party shall be designated or referred to by name or
ded to and shall have the same effect as if the words "heirs,
l representatives, succcssors and assigns" had been inserted

e Grantors have hereunto set their hands and seals, or if a
be signed by its proper corporate officers and its
first above written.

reb Casel Agency, Inc. (formerly
known as Preferred Land Co.
By: Edward Casel, Pres.

, Secretary

of } ss.: Be it Remembered
10 , before me, the subscriber,

the person named in and who executed the within Instrument,
owledged that signed, sealed and delivered the same as
uses and purposes therein expressed, and that the full and actual
the transfer of title to realty evidenced by the within deed, as
968, c. 49, Sec. 1 (c), is $

of BRIDGETON } ss.: Be it Remembered,
19 10 74 , before me, the subscriber,
of the State of New Jersey

on h oath, deposes and makes proof to my satisfaction, that
Secretary of Casel Agency, Inc. (formerly the
) the Corporation named in the within Instrument;
is the
that the execution, as well as the making of this Instrument, was
resolution of the Board of Directors of the said Corporation,
orate seal of said Corporation; and that the seal affixed to said
ate seal and was thereto affixed and said Instrument signed and
President as and for the voluntary act and deed of said Corporation,
ho thereupon subscribed h name thereto as attesting witness.
leration paid or to be paid for the transfer of title to realty evidenced
leration is defined in P.L. 1968, c. 49, Sec. 1(c), is $ No Consideration
o clear a title question.
me,

James A. Casel

EY
76
einberg, Esquire

Deed

Casel Agency, Inc., a corporation of New Jersey, formerly known as Preferred Land Company

TO

Township of Manchester, a municipal corporation of the State of New Jersey

Dated January 17 1974

Record and return to:

STEINBERG & STEELE, ESQS.
1121 MADISON AVENUE
LAKEWOOD, NEW JERSEY 08701

Gene Eby

FILED [illegible] COUNTY CLERK'S

'74 MAR 28 PM 12 22

Book 3377 Page 633

380 PAGE 364

sey, County of OCEAN } ss.: Be it Remembered
L 4 19 74 , before me, the subscriber, A Notary

MILDRED DALLIO BLOODWORTH and ELDRED BLOODWORTH, her

are the persons named in and who executed the within instru-
ey acknowledged that they signed, sealed and delivered the same
d ed, for the uses and purposes therein expressed, and that the full and actual
be paid for the transfer of title to realty evidenced by the within deed, as
ed in P.L. 1968, c. 49, Sec. 1 (c), is $35,000.00

TANZIONE, JR.
TON STREET
N. J. 08753

Barbara L. Vogelsong
BARBARA L. VOGELSONG
A Notary Public of New Jersey
My Commission Expires Feb. 14, 1978

TO
ARTHUR A. PECORARO and
MARY PECORARO, his wife

Dated February 28 1974

Record & Return to:
ALPHONSE A. STANZIONE, JR.
56 WASHINGTON STREET
TOMS RIVER, N. J. 08753

BOOK 3380 PAGE 365

FILED 012436
MAR 27 1974
HENRY H. WILEY
COUNTY JUDGE
OCEAN COUNTY

Steinberg & Steele
1121 Madison Avenue
Lakewood, New Jersey 08701
(201) 363-5800
Attorneys for Plaintiff

74 APR 10 PM 12 45

3380 365
Deed

TOWNSHIP OF MANCHESTER, in the County of Ocean, State of New Jersey, a Municipal Corporation, Plaintiff, vs. ANN SILVERMAN, and CASEL AGENCY, INC., a corporation of New Jersey, formerly known as Preferred Land Company, Defendants.	SUPERIOR COURT OF NEW JERSEY CHANCERY DIVISION OCEAN COUNTY Docket No. C-3881-72 Civil Action ORDER FOR JUDGMENT BY DEFAULT AGAINST DEFENDANT ANN SILVERMAN

This action coming on to be heard in the presence of SIEGFRIED W. STEELE, for the firm of Steinberg & Steele, Attorneys for the Plaintiff, and no one appearing for the Defendant, ANN SILVERMAN, and it appearing therefrom that the summons and complaint in the above entitled actic·· having been duly served on the defendant ANN SILVERMAN and said defendant ANN SILVERMAN having defaulted for failure to appear in the action within the time prescribed by the rules of procedure and it further appearing that Request to Enter Default and Certification was filed against defendant, ANN SILVERMAN in

3380-365

P/O PLAIN TOWN MART

in the Superior Court, Chancery Division, on August 2, 1973, a that a Stipulation of Dismissal of the matter as to Defendant CASEL AGENCY, INC. was entered into by and between counsel for Plaintiff and Defendant CASEL AGENCY, INC.;

And in view of the fact that Defendant CASEL AGEN INC. delivered a Quit-Claim Deed to Plaintiff releasing its interest in the lands described in the Complaint and in this Judgment;

And it further appearing that the Plaintiff has been in peaceable possession of lands described in the Compl and is entitled to maintain its action to settle the title and clear up all doubts and disputes concerning the same and it appearing that Defendant ANN SILVERMAN never paid any muni cipal taxes and assessments against said lands and premises or that the same was not on the tax rolls in view of the fact tha the title of property was in the name of the Plaintiff and it further appearing to the Court that the Plaintiff is entitled to the relief sought in its Complaint against Defendant ANN SILVERMAN;

It is on this 27th day of March 1974, adjudged that the Defendant ANN SILVERMAN has no estate interest in or encumbrances or lien upon, the lands and pre hereinafter described or any part thereof.

It is further adjudged that as to described in the Complaint, hereinafter desc relates to any claim therein by or on behal ANN SILVERMN, the title of the plaintiff, TO in and to the same is hereby determined, fixe declared to be good. ~~Valid, effective and free of~~

All that certain tract or parcel premises situtate, lying and bei Township of Manchester, in the C and State of New Jersey, more pa scribed as follows:

Beginning at a point in the Nort N. J. State Highway Route #70 at Intersection of said Northerly l Westerly line of a tract now or County Land Company, said wester the line of a tract of 341 acres tions conveyed by John Karl, et County Land Company, deed dated and recorded at the Ocean County March 1, 1911 in Book 370 Page 1 beginning point running thence (42 minutes 25 seconds West 145.8 thence (2) North 80 degrees East point thence (3) South 10 degree to a point thence (4) South 84 d to a point thence (4) South 84 d 43 seconds West 182.89 feet to a Northerly line of N. J. State Hi thence (5) along said Northerly Highway Route #70 in a westerly feet to the point and place of

Containing 7.76 acres in accord by Ernst, Ernst, and Lisenden, veyors dated June, 1972.

/s/ Tekny

rior Court, Chancery Division, on August 2, 197[illegible]
ulation of Dismissal of the matter as to Defendant
Y, INC. was entered into by and between counsel f[illegible]
nd Defendant CASEL AGENCY, INC.;

And in view of the fact that Defendant CASEL AGEN[illegible]
ered a Quit-Claim Deed to Plaintiff releasing its
a the lands described in the Complaint and in this

And it further appearing that the Plaintiff has
aceable possession of lands described in the Complai[illegible]
itled to maintain its action to settle the title
up all doubts and disputes concerning the same and
ng that Defendant ANN SILVERMAN never paid any taxe[illegible]
s and assessments against said lands and premises and
same was not on the tax rolls in view of the fact that
of property was in the name of the Plaintiff and it
ppearing to the Court that the Plaintiff is entitled
lief sought in its Complaint against Defendant ANN
;

It is on this 27th day of May
udged that the Defendant ANN SILVERMAN has no estate,
in or encumbrances or lien upon, the lands and premises
er described or any part thereof.

It is further adjudged that as to all of the lands described in the Complaint, hereinafter described, so far as it relates to any claim therein by or on behalf of the defendant ANN SILVERMAN, the title of the plaintiff, TOWNSHIP OF MANCHESTER, in and to the same is hereby determined, fixed and settled and declared to be good ~~and forever in fee simple~~:

All that certain tract or parcel of land and premises situtate, lying and being in the Township of Manchester, in the County of Ocean and State of New Jersey, more particularly described as follows:

Beginning at a point in the Northerly line of N. J. State Highway Route #70 at the point of Intersection of said Northerly line with the Westerly line of a tract now or formerly Ocean County Land Company, said westerly line being the line of a tract of 341 acres, before deductions conveyed by John Karl, et als, to Ocean County Land Company, deed dated August 15, 1910 and recorded at the Ocean County Clerk's Office March 1, 1911 in Book 370 Page 131, and from said beginning point running thence (1) North 9 degrees 42 minutes 25 seconds West 145.85 feet to a point thence (2) North 80 degrees East 1232.34 feet to a point thence (3) South 10 degrees East 381.80' to a point thence (4) South 84 degrees 32 minutes to a point thence (4) South 84 degrees 32 minutes 43 seconds West 182.89 feet to a point in the Northerly line of N. J. State Highway Route #70 thence (5) along said Northerly line of N.J. State Highway Route #70 in a westerly direction, 1073.86 feet to the point and place of beginning.

Containing 7.76 acres in accordance with survey by Ernst, Ernst and Lisenden, Engineers and Surveyors dated June, 1972.

/s/ Edward H. Wilson
Judge

BOOK 3978 PAGE 171

ORIGINAL FILED
Jan 13, 1980
LEWIS BAMBRICK
Clerk

SIEGFRIED W. STEELE, ESQUIRE
1121 Madison Avenue
Lakewood, New Jersey 08701
(201) 363-5800
Attorney for Plaintiff

SUPERIOR COURT OF NEW JERSEY
CHANCERY DIVISION
OCEAN COUNTY
DOCKET NO. C 3699-79

Civil Action

AMENDED FINAL JUDGMENT

THE TOWNSHIP OF MANCHESTER, County of Ocean, State of New Jersey, a municipal corporation,

Plaintiff,

vs.

JOAN LAUBE and TULLIO LAUBE, husband and wife; CATHERINE SINISI and ARMAND SINISI, husband and wife; JOSEPH ROCCAFORTE and MARGHERITA ROCCAFORTE, husband and wife; SALVATORE ROCCAFORTE and ANGELINA ROCCAFORTE, husband and wife; ANN SILVERMAN; and STATE OF NEW JERSEY,

Defendants.

RECORDED
OCEAN COUNTY
CLERK'S OFFICE
JAN 28 10 03 AM '81
3978 PAGE 171
002933

This matter having been opened to the Court by Siegfried W. Steele, Esquire, attorney for the plaintiff, TOWNSHIP OF MANCHESTER; and it appearing that Summons and Complaint has been duly issued and returned served on the defendants, JOAN LAUBE and TULLIO LAUBE, husband and wife; CATHERINE SINISI and ARMAND SINISI, husband and wife; JOSEPH ROCCAFORTE and MARGHERITA

NO OTHER Final Judgment FOUND

3978-171

ROCCAFORTE, husband and wife; SALVATORE ROCCAFORTE and ANGELINA ROCCAFORTE, husband and wife; and ANN SILVERMAN;

And it further appearing that Notice and Complaint were duly issued and returned served on defendant, STATE OF NEW JERSEY;

And it further appearing that the defendants, ANN SILVERMAN and STATE OF NEW JERSEY having failed to file an answer or otherwise appear within the time limited by law in said cause, but have wholly failed to do so, and default having been entered against them;

And it further appearing that Edward F. Liston, Jr., Esq. of the firm of Carluccio & Liston, attorney for defendants, JOAN LAUBE and TULLIO LAUBE, husband and wife; CATHERINE SINISI and ARMAND SINISI, husband and wife; JOSEPH ROCCAFORTE and MARGHERITA ROCCAFORTE, husband and wife; SALVATORE ROCCAFORTE and ANGELINA ROCCAFORTE, husband and wife, having filed an Answer and Counterclaim;

And it further appearing that an Affidavit has been duly presented proving the allegations of the Complaint and Counterclaim; and the court being of the opinion that a genuine dispute of title is in issue in this action; and the parties having amicably adjusted their dispute and conflicting claims of title;

and the parties by their respective attorneys, Edward F. Liston, Jr., Esq, and Siegfried W. Steele, Esq., having consented to the entry of this Judgment:

It is thereupon, on this 7th day of Jan, 1981 on Motion of Siegfried W. Steele, Esq., attorney for plaintiff, ORDERED and ADJUDGED that the defendants, JOAN LAUBE and TULLIO LAUBE, husband and wife; CATHERINE SINISI and ARMAND SINISI, husband and wife; JOSEPH ROCCAFORTE and MARGHERITA ROCCAFORTE, husband and wife; SALVATORE ROCCAFORTE and ANGELINA ROCCAFORTE, husband and wife, have no estate, interest or right in, or lien or encumbrance upon the said lands and premises or any part thereof as more specifically set forth herein;

And it is FURTHER ORDERED and ADJUDGED that as to all of the lands and premises situate in the Township of Manchester, County of Ocean, and State of New Jersey, and more particularly described as follows:

BEG. AT A CONC MON. FD. IN THE NLY R/W LINE OF STATE OF N.J. HWY RTE. 70; SAID MON. ALSO BEING IN A ELY LINE OF FORT DIX MILITARY RESERVATION, THENCE

(1) ALONG SAID MILITARY RESERVATION LINE IN A NLY DIRECTION. N.10 Deg. 34 min. 44 sec. W. 2160.40 Ft. TO A PT. IN SAID LINE., THENCE

(2) ALONG THE THIRD COURSE OF A 57.96 Ac. TRACT AS DESCRIBED IN DEED BK, S-22, PG. 288. N. 79 Deg.

UT13

PART I

25 Min. 23 Sec. E. 1732.29 Ft. to a PT., IN SAID LINE, THENCE

(3) ALONG THE SECOND COURSE OF A 18.31 AC. TRACT AS DESCRIBED IN DEED BK S-22, PG. 261. S. 36 Deg. 01 Min. 30 Sec. E. 591.75 Ft. to a PT., IN SAID LINE, THENCE

(4) ON A NEW LINE, S. 03 Deg. 30 Min. 00 Sec. W. 1994.12 Ft. to a STK SET IN THE NLY R/W. LINE OF STATE HWY RTE. 70., THENCE

(5) ALONG SAID NLY R/W LINE OF STATE HWY RTE. 70, N. 88 Deg. 58 Min. 14 Sec. W. 1532.76 Ft. to the PT. and Place of Beg.

Containing 94.94 Acres.

UT13

So far as relates to any claim thereon by or on behalf of said defendants, the title of said plaintiff in and to the same or any part thereof is hereby determined, fixed, settled and declared to be good;

And it is FURTHER ORDERED AND ADJUDGED that the said plaintiff, TOWNSHIP OF MANCHESTER, has no estate, interest or right in or lien or encumbrance upon the lands and premises more particularly hereinafter set forth;

And it is FURTHER ORDERED AND ADJUDGED as to all of the lands and premises hereinafter set forth situate in the Township of Manchester, County of Ocean, State of New Jersey, more particularly described as follows:

Tract 2

BEG. AT A PT. BEING DISTANT 2160.40 FT. ON A COURSE N. 10 Deg. 34 Min. 44 Sec. W. FROM A CONC. MON FD. IN THE NLY R/W LINE OF STATE OF N.J. HWY RTE. 70; SAID MON ALSO BEING IN A ELY LINE OF FORT DIX MILITARY RESERVATION, THENCE

(1) CONTINUING ALONG THE LINE OF THE FORT FIX MILITARY RESERVATION N. 10 Deg. 34 Min. 44 Sec. W. 2355.32 FT. TO A PT. BEING IN THE LINE OF LANDS FORMERLY DEBORAH PLATT; THENCE

(2) ALONG A SLY LINE OF LANDS FORMERLY D. PLATT; S. 65 Deg. 55 Min. 44 Sec. E 2878.94 FT. TO A PT.; THENCE

(3) S. 34 Deg. 41 Min. 43 Sec. E. 386.36 FT. TO THE BEG. COR. OF A 57.96 Ac. TRACT RETURNED TO ROBERT W. RUTHERFORD IN DEED BK S-22, PG. 228, THENCE

(4) S. 20 Deg. 28 Min. 15 Sec. E. 371.44 FT. TO THE BEG COR OF A 18.31 Ac. TRACT AS DESCRIBED IN DEED BK S-22 PG. 261, THENCE

(5) S. 22 Deg. 20 Min. 46 Sec. E. 996.18 FT. TO THE FOURTH COR OF SAID 18.31 AC. TRACT., THENCE.

(6) S. 23 Deg. 50 Min. 26 Sec. E. 675.75 FT. TO THE N/E COR OF SCHLEY ST. & LINCOLN AVE. AS SHOWN ON A CERTAIN MAP ENTITLED " OCEAN COUNTY LAND CO. WHITINGS, N.J. TRACT 1 ", THENCE

(7) ALONG THE ELY LINE OF SCHLEY ST. S. 03 Deg. 30 Min. 00Sec. W. 867.86 FT. to a pt. in the SLY LINE OF LANDS NOW OR FORMERLY OCEAN COUNTY LAND CO. TRACT 1, THENCE

(8) ALONG THE SAME, S. 89 Deg. 06 Min. 59 Sec. W. 93.51 FT. TO A COR TO SAME. THENCE.

(9) ALONG A ELY LINE OF OCEAN COUNTY LAND CO., TRACT 1, S. 05 Deg. 06 Min. 59 Sec. W. 166.28 FT. TO A PT. IN THE NLY R/W LINE OF STATE OF N.J. HWY 70, THENCE.

(10) ALONG SAID NLY R/W LINE IN A WLY DIRECTION ON A CURVE HAVING A RADIUS OF 5689.85 FT. CURVING TO THE RIGHT 917.13 FT. ARC DISTANCE TO THE POINT OF CURVATURE., THENCE

(11) CONTINUING ALONG SAID NLY R/W LINE OF RTE 70, N. 88 Deg 58 Min. 14 Sec. W. 193.12 FT. TO A PT., THENCE

(12) ON A NEW LINE, N. 03 Deg. 30 Min. 00 Sec. E. 1994.32 FT. TO A PT. IN THE SECOND LINE OF A 18.31 AC. TRACT AS DESCRIBED IN DEED BK S-22, PG. 261, THENCE

(13) ALONG SAME, N. 36 Deg. 01 Min. 30 Sec. W. 591.75 FT. TO THE SECOND COR OF SAID 18.31 AC. TRACT BEING IN THE THIRD LINE OF A 57.96 AC. TRACT DESCRIBED IN DEED BK S-22 Pg. 228, THENCE

(14) ALONG SAID THIRD LINE OF 57.96 AC. TRACT, S. 79 Deg. 25 Min. 23 Sec. W. 1732.29 FT. TO THE POINT AND PLACE OF BEG.; CONTAINING 146.08 ACRES.

So far as relates to any claim thereon by or on behalf of said plaintiff, TOWNSHIP OF MANCHESTER, the title of said defendants in and to the same or any part thereof is hereby determined, fixed, settled, and declared to be good.

/s/ Henry H. Wiley
HENRY H. WILEY, J.S.C.

Consent is hereby given to the above.

SIEGFRIED W. STEELE

CARLUCCIO & LISTON

By
EDWARD F. LISTON, JR.

BOOK 3978 PAGE 177

SUPERIOR COURT OF NEW JERSEY
CHANCERY DIVISION, OCEAN COUNTY

THE TOWNSHIP OF MANCHESTER :

Plaintiff, :

vs : CERTIFICATION

JOAN LAUBE AND TULLIO LAUBE, husband and wife; :

Defendant. :

I, W. Lewis Bambrick, Clerk of the Superior Court of New Jersey, the same being a court of record, do hereby certify that the foregoing is a true copy of AMENDED FINAL JUDGMENT now on file in my office.

In testimony whereof, I have hereunto set my hand and the seal of the court this 19th day of JANUARY, 19 81.

W. Lewis Bambrick
Clerk

Clerk

#22-093

RESOLUTION OF THE TOWNSHIP COUNCIL OF THE TOWNSHIP OF MANCHESTER, COUNTY OF OCEAN, STATE OF NEW JERSEY, APPROVING ACCEPTANCE AND EXECUTION OF THE FIRST AMENDMENT FOR LEASE AGREEMENTS WITH NEXTGRID MANCHESTER LANDFILL LLC

WHEREAS, the Township Council of the Township of Manchester, County of Ocean, State of New Jersey (hereinafter referred to as the "Township") has previously entered into a Land Lease Agreement ("Agreement") with NextGrid Manchester Landfill, LLC (hereinafter referred to as "NextGrid"); and

WHEREAS, the Lease Agreement is dated January 20, 2020, and pertains to the proper closure of the Township landfill and the instillation of solar panels on the landfill, all at the cost of NextGrid; and

WHEREAS, the original terms of the Agreement provided that the development period would commence on the effective date and terminate 12 months thereafter; and

WHEREAS, the Agreement provided that the effective date would be the date that the Agreement was fully executed by all parties; and

WHEREAS, pursuant to the plain language of the Agreement, the development period should have commenced, but because of environmental and regulatory issues, although diligently pursuing the approvals, NextGrid has not yet received all necessary approvals from NJDEP and the Pinelands Commission; and

WHEREAS, the Township acknowledges that although the development period expired on or about January 27, 2021, by its own terms and conditions, and was inadvertently not extended by agreement between NextGrid and the Township, furthermore the parties recognize that the project is ongoing and must be completed in order to provide for the best result for the taxpayers and citizens of the Township; and

NOW, THEREFORE, BE IT RESOLVED, this 14th day of February 2022, by the Township Council of the Township of Manchester, County of Ocean, State New Jersey as follows:

1. The Township agrees to amend the aforementioned Agreement to provide that Section 5(b) of the Agreement shall read:

   "The Development Period shall commence on the effective date and Terminate on the Lease Commencement date."

2. Other than as modified herein the Township reaffirms the Agreement dated January 20, 2020.

3. The Township authorizes and directs the Mayor and Municipal Clerk to execute any and all necessary documents in order to implement the intent of this Resolution.

BE IT FURTHER RESOLVED that a certified copy of this Resolution shall be forwarded by the Municipal Clerk to the following:

(a) The Honorable Robert Hudak, Mayor;
(b) Joan Brush, Council President;
(c) Brandon Umba, Township Administrator;
(d) Robert Mullin of Colliers Engineering;
(e) Jerry J. Dasti, Esquire;

CERTIFICATION

I, Sabina T. Martin, Clerk of the Township of Manchester, County of Ocean, State of New Jersey, do hereby certify the foregoing to be a true and correct copy of a Resolution adopted by the Township Council at a meeting held on the **24th day of January 2022**.

Sabina T. Martin, RMC
Municipal Clerk

FIRST AMENDMENT TO LAND LEASE AGREEMENT

This First Amendment to the Land Lease Agreement ("Amendment") is entered into as of December 14, 2021 ("Effective Date") by and among Town of Manchester NJ (the "Lessor") and NextGrid Manchester Landfill LLC (the "Lessee") (each a "Party" and together, the "Parties").

Recitals

WHEREAS, the Parties entered into that certain Land Lease Agreement on January 20, 2020 (the "Agreement"); and

WHEREAS, the Parties wish to amend provisions of the Agreement set forth below pursuant to Section 30 of the Agreement.

NOW, THEREFORE, in consideration of the premises and the mutual covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. Capitalized Terms. Capitalized terms used herein without meaning shall have the meaning given to such terms in the Agreement.

2. Amendments.

   a. **Section 5(b)**: Substitute the section such that Section 5(b) shall state, "The Development Period shall commence on the Effective Date and terminate on the Lease Commencement Date."

3. Reaffirmation. Except as expressly amended by this Amendment, all other terms, covenants and conditions contained in the Agreement shall remain in full force and effect and are hereby ratified and confirmed in all respects.

4. Headings. The headings contained herein are solely for convenience of reference and shall not be deemed to have substantive meaning.

5. Counterparts. This Amendment may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which shall be deemed to be an original, but all of which taken together shall constitute one and the same agreement. Delivery of an executed counterpart of this Amendment by telefacsimile or electronic mail shall be equally as effective as delivery of an original executed counterpart of this Amendment.

6. Entire Agreement. The Agreement, as amended by this Amendment, constitutes the entire understanding and agreement between the parties hereto with respect to the subject matter hereof and supersedes any and all prior or contemporaneous agreements or understandings with respect to the subject matter hereof, whether express or implied, oral or written.

[Signature Page to Follow]

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the date first above written.

Lessor:	**Lessee:**
Town of Manchester NJ By: _____ Name: Title:	**NextGrid Manchester Landfill LLC** By: _____ Name: Doug Williams Title: Managing Member

Attachment F

SLOPE STABILITY ANALYSIS
MANCHESTER TOWNSHIP LANDFILL FINAL CLOSURE
MANCHESTER, NEW JERSEY

PURPOSE

The purpose of this calculation package is to evaluate slope stability of the post-closure conditions of the Manchester Township Landfill (Site) in Manchester, Ocean County, New Jersey. The analyses presented herein were conducted to evaluate slope stability of the following:

- Waste and final cover slopes at Section A-A′ and Section B-B′ (**Figure 1)**; and
- A Bin Block Wall to be constructed post landfill closure as part of the public recycling area.

Stability was evaluated for the static and seismic post-closure conditions in addition to sliding and overturning evaluation for the bin block wall.

SUBSURFACE STRATIGRAPHY

The Manchester Landfill comprises sand fill (fill) placed over a varying thickness of waste, which comprises various municipal solid wastes (MSW). The fill and waste overlie a stratum of native sand. Site stratigraphy and groundwater table conditions were inferred from *Site Hydrogeologic Investigation Report* (Maser 2020). The materials and material properties used in this analysis are presented below and summarized in **Table 1**.

Cover Soils

The cover system will comprise 18 inches of sand cover soil and 6 inches of topsoil. The unit weight of the cover soils was selected as 110 pounds per cubic foot (pcf) from a typical range for poorly graded sand from Coduto (2001). The shear strength of the cover soils is characterized by a friction angle of 30 degrees.

Waste

Shear strength properties of the waste were selected based on the bi-linear strength envelope for MSW presented by Kavazanjian et al. (1995). The unit weight of the waste was selected based on a typical value for MSW.

Based on the data presented in *Site Hydrogeologic Investigation Report* (Maser 2020) the bottom of the waste layer was selected to be approximately elevation 135 feet North American Vertical Datum 1988 (NAVD88) for this analysis. There is not sufficient information available to characterize the bottom of waste along the full cross-section evaluated. However, because the shallow slopes of the landfill preclude a deep critical failure surface and the strength of the waste and the underlying silty sand are expected to be relatively consistent, no significant precision is

gained from a more detailed characterization. In addition, since the landfill is unlined, interface friction considerations associated with lined landfills are not applicable.

Native Sand

Silty sand is the native soil existing below the waste. Engineering properties for this layer were selected from typical values in literature based on the descriptions provided in the *Site Hydrogeologic Investigation Report*.

The top of the silty sand coincides with the bottom of Waste (i.e., elevation 135 feet NAVD88).

Bin Blocks and Interface

The bin blocks are 3-ft x 3-ft reinforced concrete blocks that are interlocked together forming the retaining wall. The blocks are modelled with a unit weight of 150 pcf and an infinite strength, as the shear strength of the concrete is orders of magnitude larger than the soil and waste. The interface between the concrete blocks was estimated to have a friction angle of 35 degrees and the interface between the concrete blocks and the waste subgrade was estimated to have an interface friction angle of 20 degrees, based on typical values presented by NAVFAC (1971).

Granular Fill

The fill to be placed as a backfill for the bin block wall is expected to be compacted granular structural fill. The properties were selected based on typical values of compacted granular material (unit weight of 135 pcf, and a friction angle of 35 degrees), presented in **Table 1**.

Groundwater

Based on Maser 2020, the groundwater table elevation is at 138 ft NAVD88.

METHOD OF ANALYSIS

The factors of safety (FS) were evaluated using limit equilibrium theory and method of slices. The stability analyses were performed using the computer program SLIDE2®, Version 9.018 (Rocscience, 2022). SLIDE2 is a two-dimensional (2D) slope stability program for evaluating the FS of circular and non-circular failure surfaces in soils. The procedure consists of analyzing numerous potential failure surfaces to find the critical failure surface that results in the minimum FS for the slope. The specific method of slices used in this analysis is the Spencer method (Spencer, 1967), as both force and moment equilibrium are satisfied.

For evaluation of global stability, failure surfaces were set to have a minimum depth of 5 feet (ft) to avoid obtaining results that include surficial (i.e., localized) failures that were not likely to impair the overall structural stability. These failures can typically be corrected by routine maintenance activities and were therefore ignored.

Non-circular critical surfaces passing through the waste slopes and/or foundation soils were considered in static and seismic (i.e., pseudo static) analyses.

CROSS-SECTIONS ANALYZED

Slope stability was analyzed at two locations, Section A-A' and Section B-B', in addition to a third section describing a bin block wall constructed post landfill closure. The locations were selected on the following basis:

- Sections A-A′ and B-B′ were selected to evaluate the slope stability at the most critical sections of the landfill. These sections include areas with the highest cover grade (~3%) and also include the end slopes with a 3H:1V grade.
- Bin Block Wall which is proposed to be constructed on the landfill after closure to separate between the below grade dumpsters and the general grade of the recycling area.

A 750 pound per square foot (psf) distributed load, based on the estimated ground pressure of the solar energy system ballast blocks from previous similar projects, was modeled at the location of the proposed solar energy system. A 250 psf of the distributed load was modeled at the bin block wall section to account for vehicle traffic.

STABILITY CRITERIA

Pursuant to the requirements of New Jersey Administrative Code (NJAC) 7.26-2A and Resource Conservation and Recovery Act (RCRA) Subtitle D (258) (USEPA, 1995) the target design criteria for the Manchester Landfill slope stability are as follows:

- Static analysis shall provide a minimum factor of safety (FS) of 1.5; and
- Seismic (pseudo-static) analysis shall provide a minimum FS of 1.0 for a seismic event with a 10 percent probability of exceedance in 250 years (i.e., an approximate return period of 2,500 years).

SEISMIC LOADING

Seismic analyses were performed in general accordance with the recommendations outlined in the USEPA's guidance (USEPA, 1995). The horizontal seismic coefficient was selected based on a seismic event with a return period of 2,500 years, as summarized below.

- Bedrock Maximum Horizontal Acceleration ($MHA_{Bedrock}$) taken as 0.10g obtained from U.S. Geological Survey (USGS) 2014 National Seismic Hazard Map (**Attachment 1**).
- Soil Peak Horizontal Acceleration at Ground Surface (a_{max}) conservatively taken as the average between bedrock MHA and soft soil MHA. It is noted that the foundation soil consists predominantly of medium dense to very dense silty sand with gravel. Based on the soft soil MHA curve by Kavazanjian and Matasovic (1994) (**Attachment 1**), the soft soil MHA (MHA_{Soil}) is approximately 0.21g for a 2,500-year seismic event.

$$a_{max} = \frac{MHA_{Bedrock} + MHA_{Soil}}{2} = 0.16g$$

- Horizontal seismic coefficient (k_h) is taken as half of the soil peak horizontal acceleration at ground surface

$$k_h = 0.5 \times \frac{a_{max}}{g} = 0.5 \times \frac{0.16g}{g} = 0.08$$

ANALYSIS RESULTS

The output of slope stability analyses shows factor of safety above the minimum required for cross sections A-A′ and B-B′. The results of factors of safety and the minimum FS for global slope stability were calculated and summarized in **Table 2** and detailed output is included in **Attachment 2**. The factors of safety of the bin block section for global stablity, againist sliding and overtuning also exceed the minimum required factors of safety as summarized in **Table 3**. Detailed output is provided in **Attachment 2** for global stability and sliding analysis, and in **Attachment 3** for overtuning analysis.

CONCLUSIONS

Based on the analyses and calculations presented herein, the proposed design achieves the minimum required factors of safety for the loading conditions prescribed by the New Jersey regulations.

In addition to the New Jersey solid waste regulations, the design of the bin block retaining wall was reviewed against the New Jersey Uniform Construction Code (UCC) to address comments received from the New Jersey Department of Protection (NJDEP) during a pre-submittal review. Based on the site location, the retaining wall is classified as Sesimic Design Category A. Further, Section 1807.2.2 of the UCC defines the following for lateral soil loads:

> "Retaining walls shall be designed for the lateral soil loads set forth in Section 1610. For structures assigned to Sesimic Design Category D, E, or F, the design of retaining walls supporting more than 6 feet (1829 millimeter [mm]) of backfill height shall incorporate the additional seismic lateral eath pressure in accordance with the geotechnical investigation where required in Section 1803.2"

Since the retaining wall is classified as Sesimic Design Category A, there is no requirement to evaluate additional seismic lateral earth pressure for the retaining wall in accordance with Section 1807.2 of the UCC. Nonetheless, a review of the applicable design criteria was perfomed under the UCC and the factors of safety for the retaining wall were found to be above 1.1, as recommended by the NJDEP.

Geosyntec makes the following recommendations with respect to the construction of the landfill final cover system, solar energy system, and excavation of the borrow area.

- The landfill and cover soil borrow area shall be constructed with slopes, heights, etc. as shown on the Closure Design Drawings;
- Should the external loading on the landfill final cover system or the cover soil borrow area slopes (e.g., additional loading from the solar energy system, vehicle traffic, stormwater management features, etc.) differ from those shown in the Drawings or described herein, this analysis shall be revised to incorporate the changed conditions; and
- Should construction or additional investigation indicate that the subsurface conditions or mateiral properties are not consistent with those described herein, this analysis shall be revised to incorprate the changed conditions.

REFERENCES

Coduto, D. (2001). "Foundation Design Principles and Practices," Prentice Hall, Upper Saddle River, N.J., 2nd ed.

Das, B. M. (2006). "Principles of Geotechnical Engineering," Nelson, Thomson Canada Limited., Toronto, Ontario, 6th ed.

Kavazanjian, E., Jr., Matasovic, N., Bonaparte, R., and Schmertmann, G.R. (1995). "Evaluation of MSW properties for seismic analysis." ASCE Geotechnical Special Publication No. 46, Geoenvironment 2000, Vol 2, 126-141.

Maser (2020). *Site Hydrogeologic Investigation Report, Township of Manchester Former Manchester (a.k.a. Whiting Landfill)*, Maser Consulting, Red Bank, New Jersey, October 2020.

NAVFAC (1971). "Design Manual: Soil Mechanics, Foundations, and Earth Structures: NAVFAC DM-7". Department of the navy. Naval facilities engineering command.

Rocscience, (2020), "Slide2 (Version 9.012): A 2D Slope Stability Analysis for Soil and Rock Slopes." Rocscience, Toronto, Canada. Version released in 2020.

Sabatini, P. J., Bachus, R. C., Mayne, P. W., Schneider, T. E., Zettler, T. E., (2002) FHWAIF-02-034, Evaluation of soil and rock properties, Geotechnical Engineering Circular No. 5.

Spencer (1967), "A Method of Analysis of the Stability of Embankments Assuming Parallel Interslice Forces," Geotechnique, London, England, 17(1), pp. 11-26.

United States Geological Survey (2008). Seismic Hazard Maps, accessible through http://earthquake.usgs.gov/hazards/products/conterminous/2008/maps/

USEPA (1995). Seismic Design Guidance for Municipal Solid Waste Landfill Facilities. Report No. EPA/60/R-95/051.

TABLES

Table 1. Material Properties.

Material	Moist Unit Weight	Saturated Unit Weight	Effective Shear Strength		Source
	γ (pcf)	γ_{sat} (pcf)	c' (psf)	ϕ' (deg)	
Cover	110	--	0	30	--
Waste	75	85	Shear-Normal Function		(1)
Silty Sand	110	120	0	32	(2) (3)
Interface	150	-	0	35	(4)
Interface 2	150	-	0	17	(4)
Granular Fill	135	-	0	35	
Concrete	150	-	Infinite Strength		

Notes:
(1) Kavazanjian, et al. (1995)
(2) Sabatini, et al. (2002)
(3) Coduto (2001)
(4) NAVFAC 1971

Table 2. Summary of Factors of Safety.

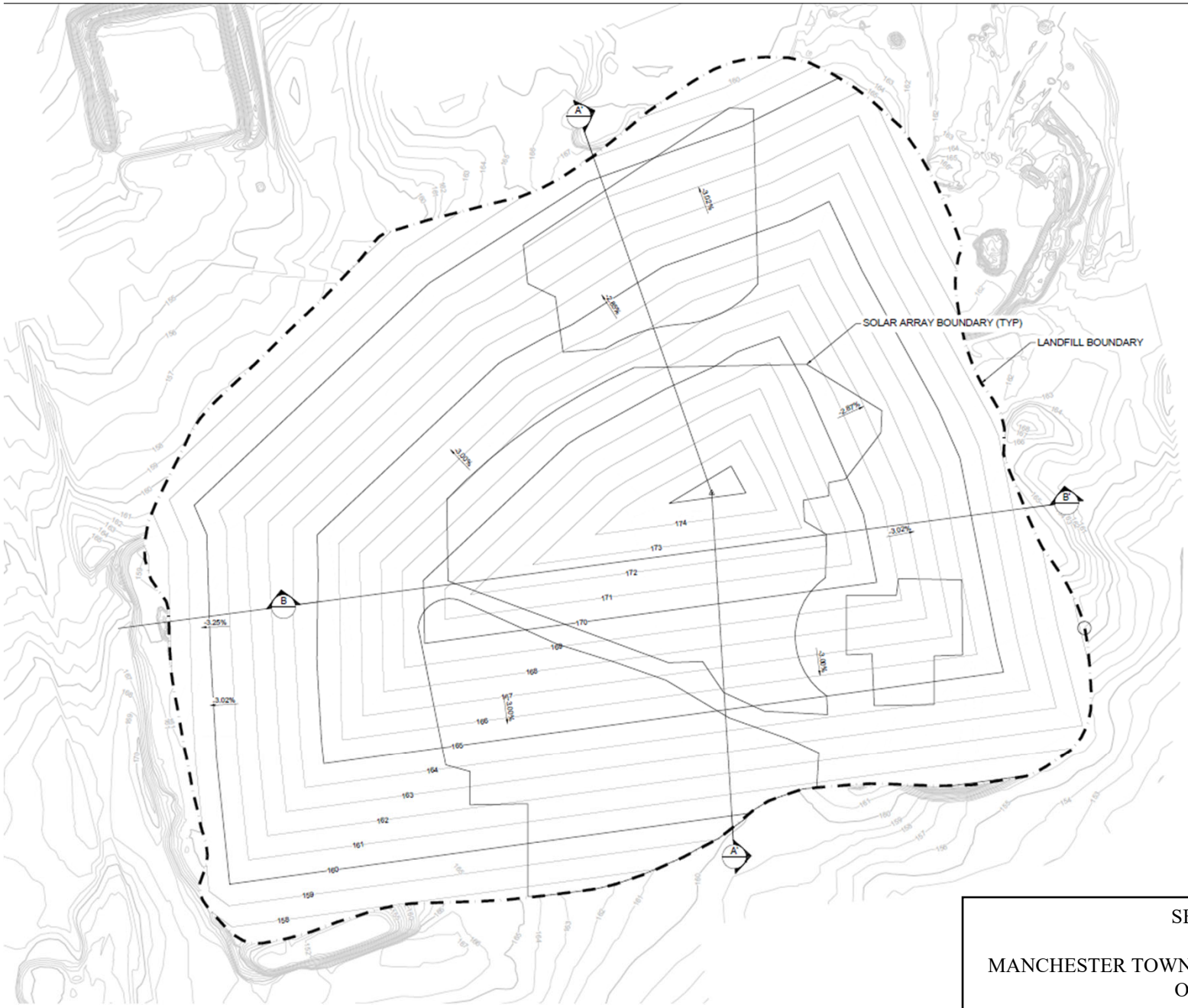
Cross-Section	Case Analyzed	Calculated FS		Required FS
		Left Side	Right Side	
A-A′	Static	3.1	1.59	1.5
	Seismic	3.0	1.34	1.0
B-B′	Static	2.66	2.81	1.5
	Seismic	2.56	2.78	1.0

Table 3. Summary of Factors of Safety for Bin Block Section.

Cross-Section	Case Analyzed	Calculated FS		Required FS
		Circular	Non-Circular	
Bin Block	Static	2.63	2.30	1.5
	Seismic	2.25	2.06	1.1
	Static-Sliding	N/a (1)	1.98	1.5
	Seismic-Sliding	N/a (1)	1.64	1.1
	Overturning	4.51		1.5

(1) Not applicable

FIGURE 1



SECTIONS A & B

MANCHESTER TOWNSHIP LANDFILL SOLAR CLOSURE
Ocean County, NJ

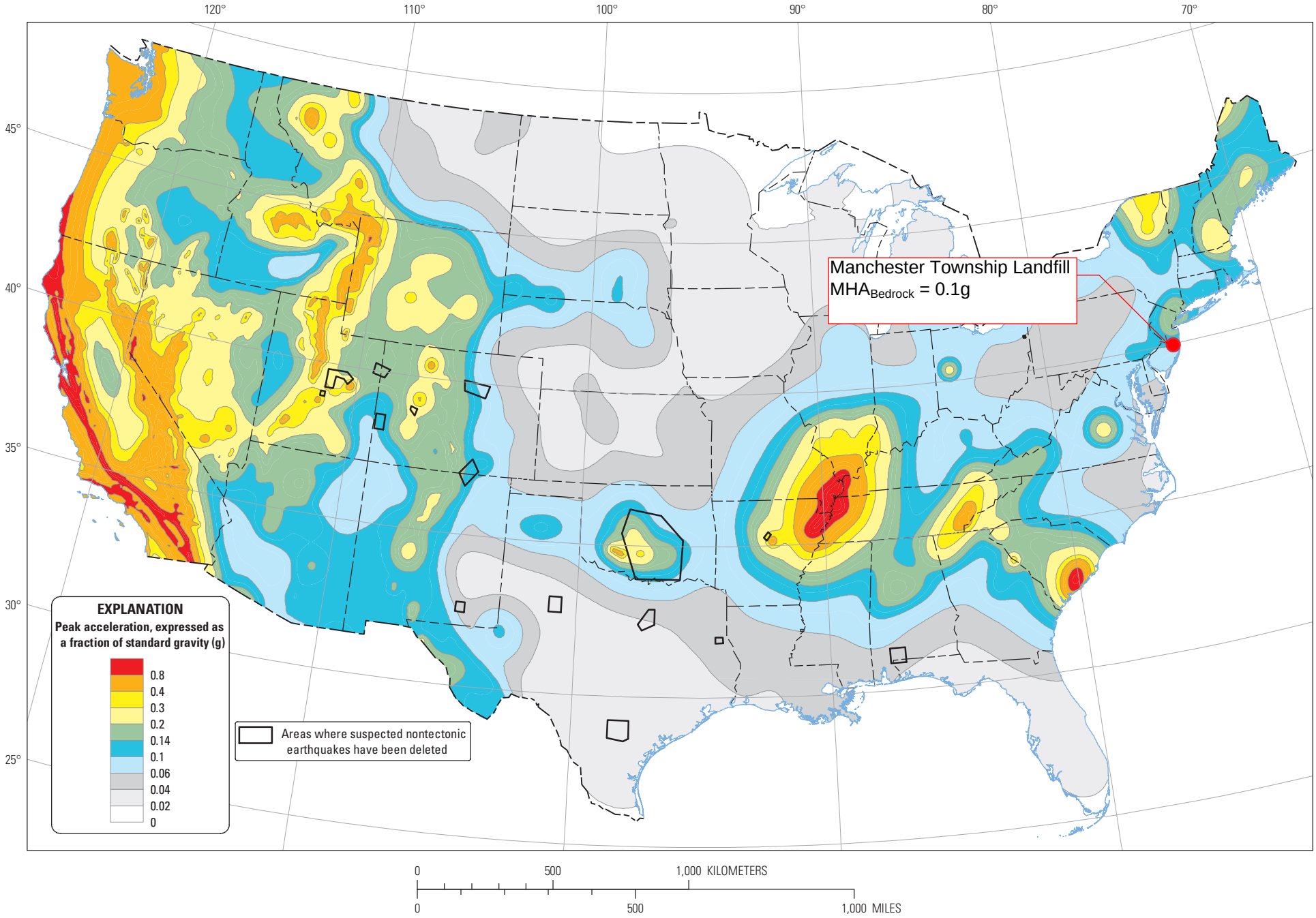
Geosyntec consultants

Acton, MA | February 2023

FIG 1

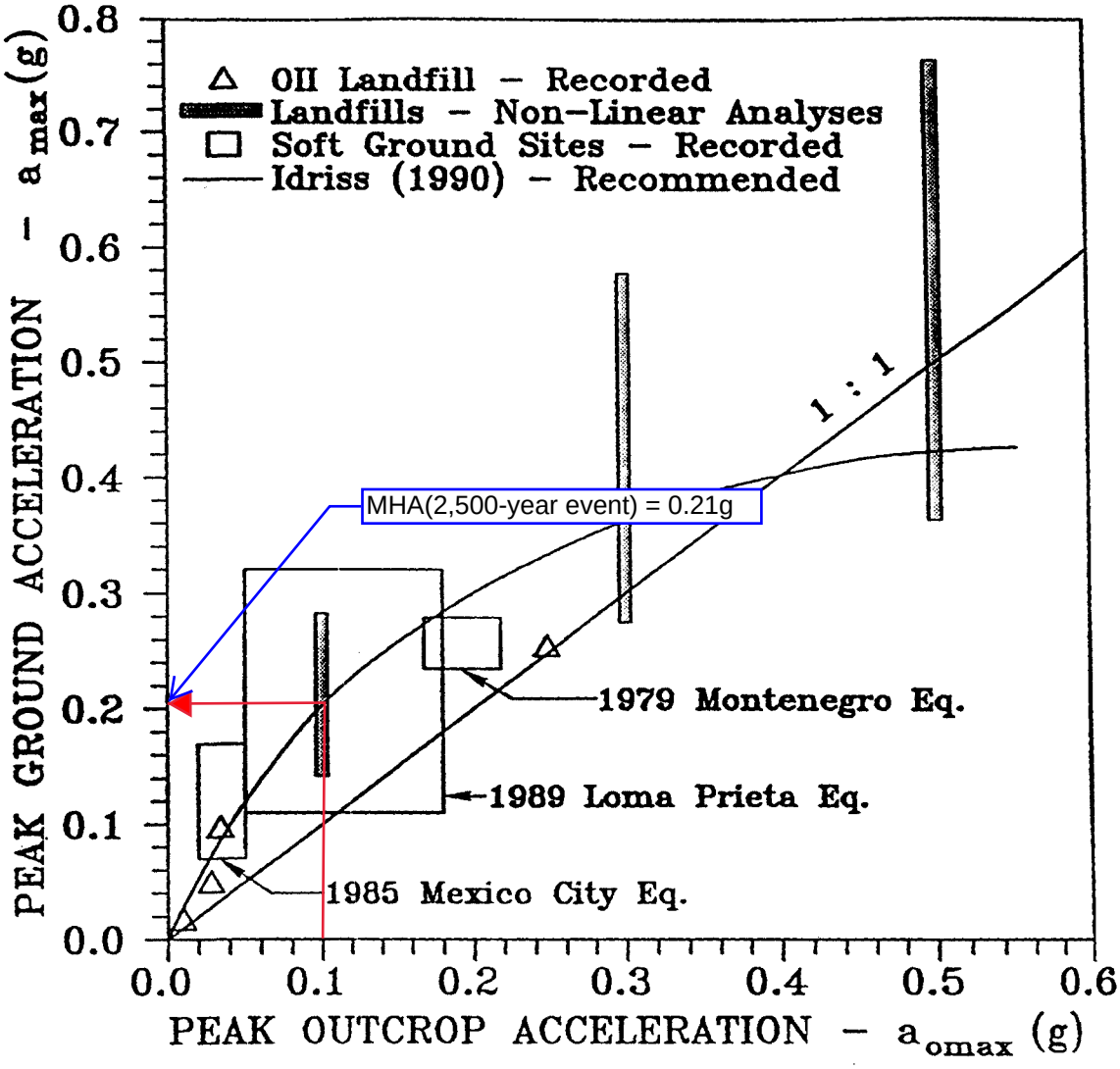
ATTACHMENT 1

Technical References for
Evaluating Seismic Parameters



Two-percent probability of exceedance in 50 years map of peak ground acceleration

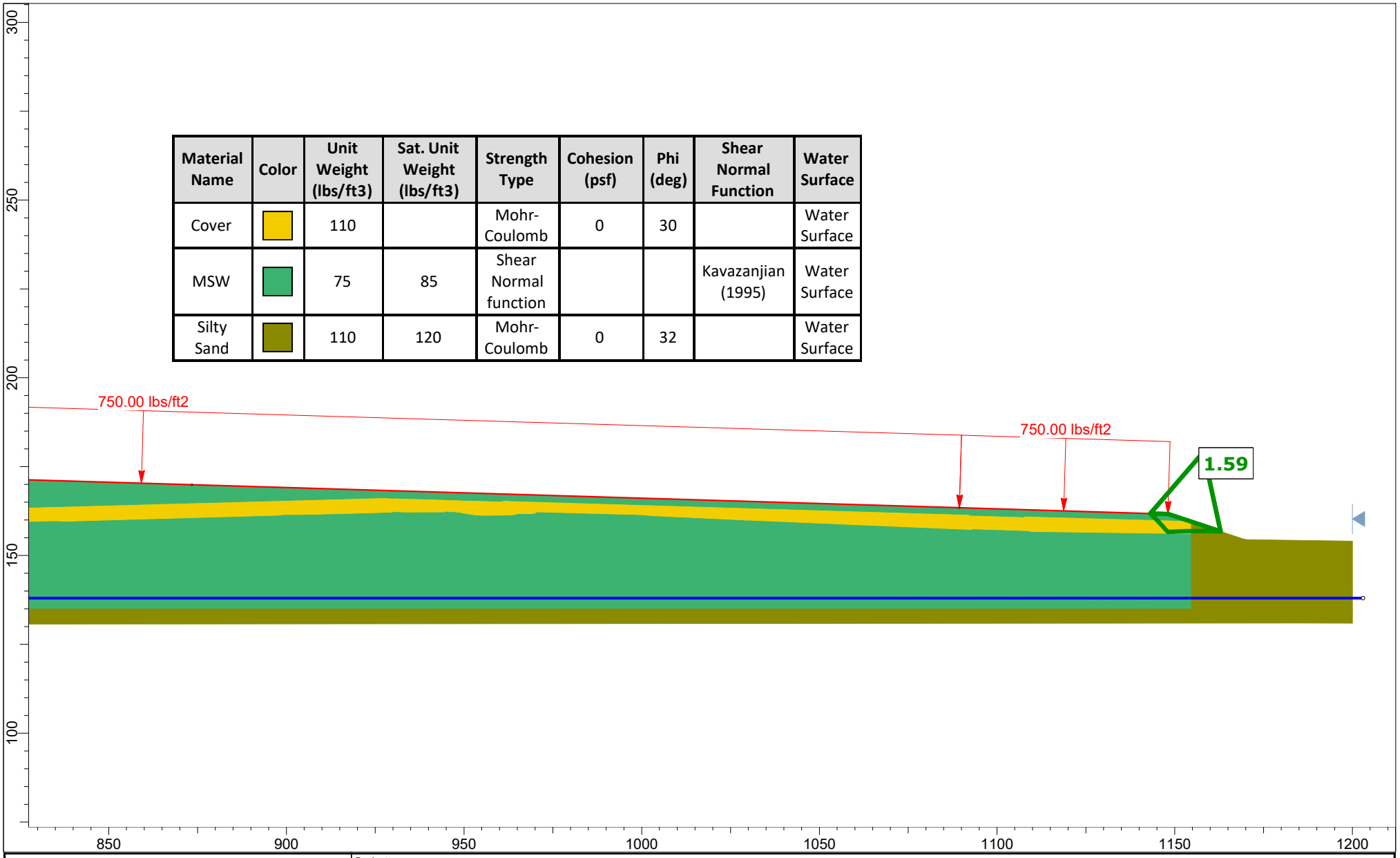
Attachment 1.2: Observed Variations of Peak Horizontal Accelerations on Soft Soil and MSW sites in Comparison to Rock Sites (after Kavazanjian and Matasovic, 1994).



ATTACHMENT 2

SLIDE Output

Material Name	Color	Unit Weight (lbs/ft3)	Sat. Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Water Surface
Cover		110		Mohr-Coulomb	0	30		Water Surface
MSW		75	85	Shear Normal function			Kavazanjian (1995)	Water Surface
Silty Sand		110	120	Mohr-Coulomb	0	32		Water Surface

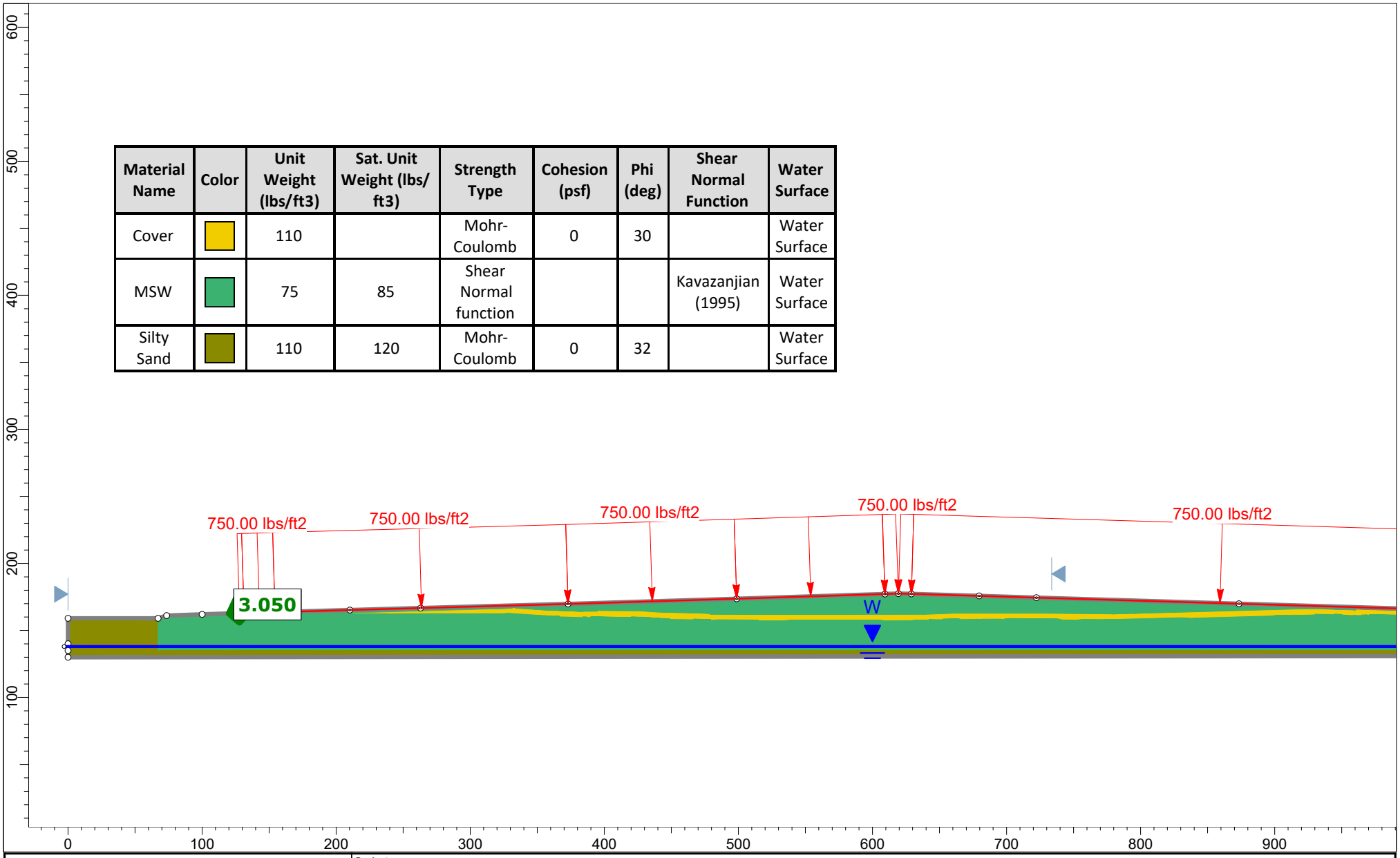


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Non-circular Left to Right	Scenario	Master Scenario
Drawn By		Company	
Date	6/27/2022, 10:13:44 AM	File Name	Manchester LF_Sec. A.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Sat. Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Water Surface
Cover		110		Mohr-Coulomb	0	30		Water Surface
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Silty Sand		110	120	Mohr-Coulomb	0	32		Water Surface

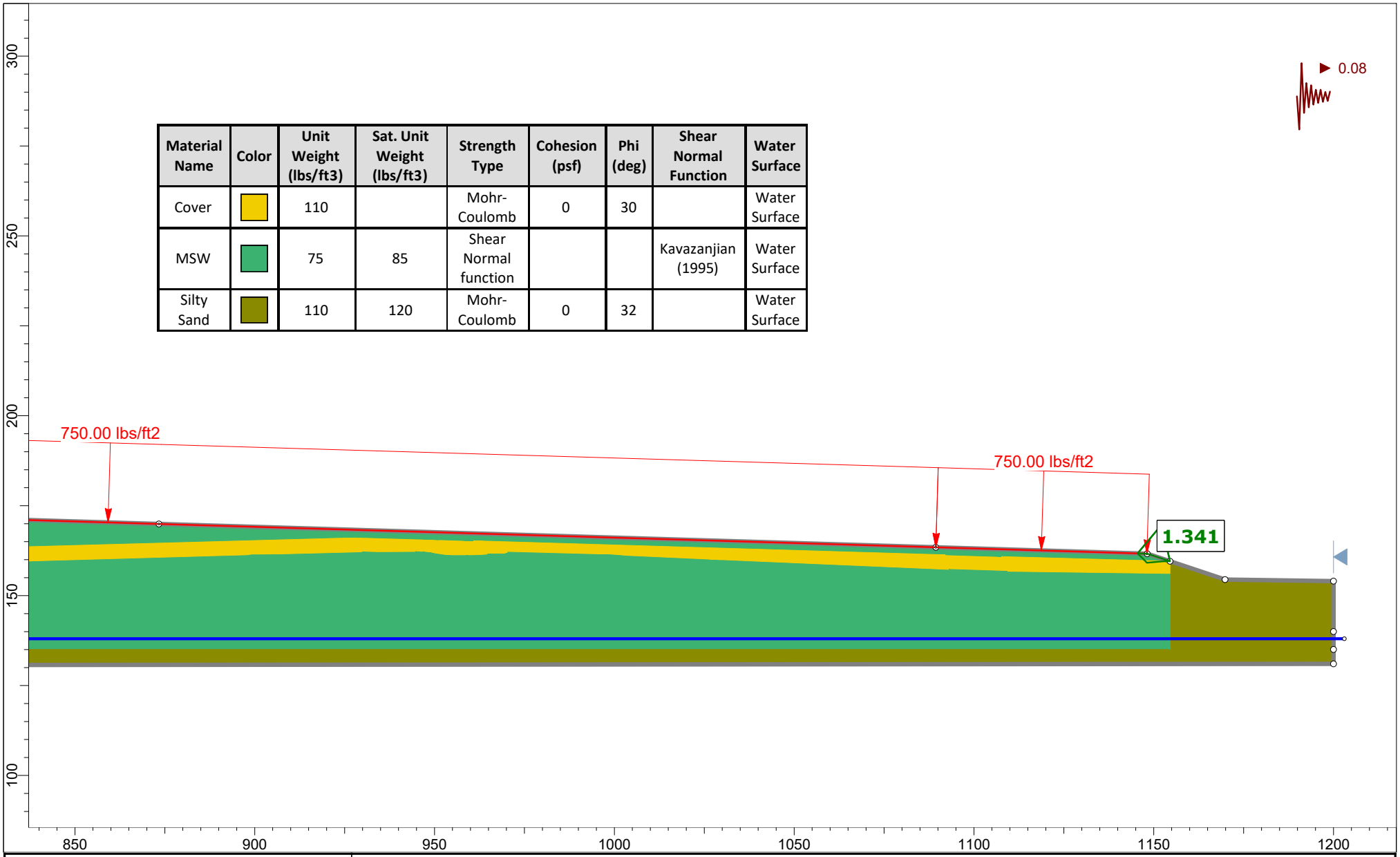


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Non-circular Right to Left	Scenario	Master Scenario
Drawn By		Company	
Date	6/27/2022, 10:13:44 AM	File Name	Manchester LF_Sec. A.slmd

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Silty Sand		110	120	Mohr-Coulomb	0	32		Water Surface

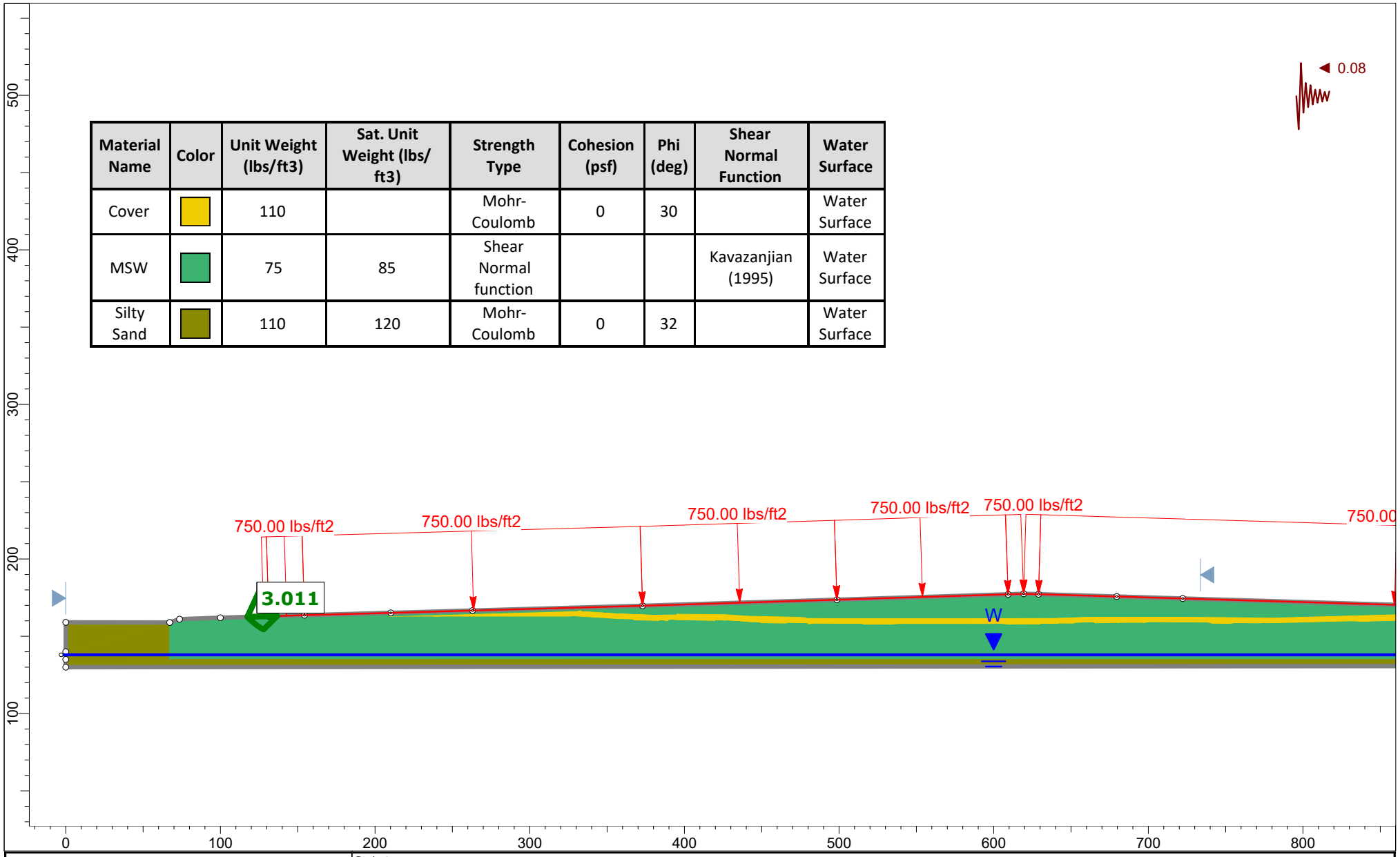


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Seismic Non-circular Left to Right	Scenario	Master Scenario
Drawn By		Company	
Date	6/27/2022, 10:13:44 AM	File Name	Manchester LF_Sec. A.slmd

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Silty Sand		110	120	Mohr-Coulomb	0	32		Water Surface



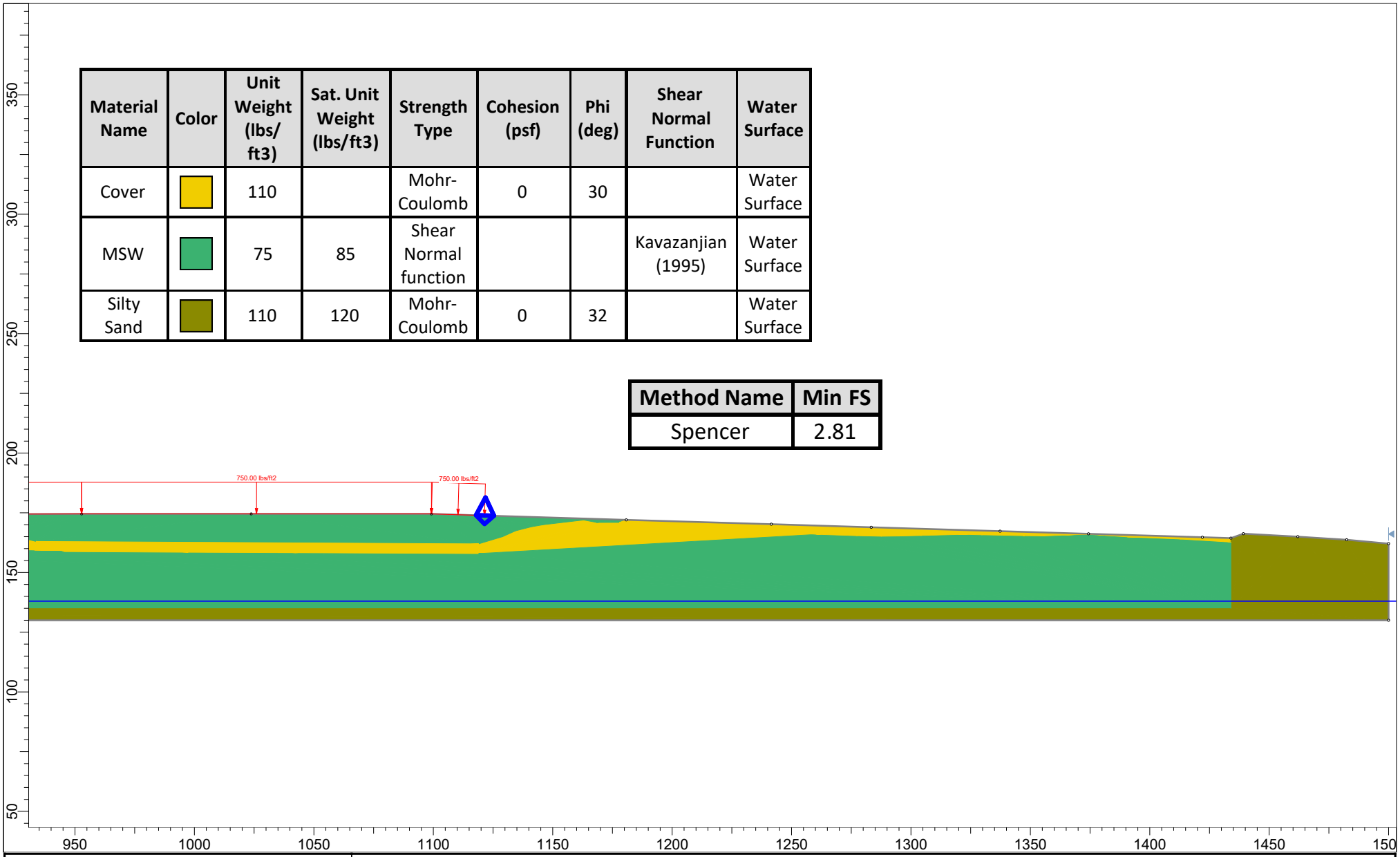
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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Seismic Non-circular Right to Left	Scenario	Master Scenario
Drawn By		Company	
Date	6/27/2022, 10:13:44 AM	File Name	Manchester LF_Sec. A.slmd

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MSW		75	85	Shear Normal function			Kavazanjian (1995)	Water Surface
Silty Sand		110	120	Mohr-Coulomb	0	32		Water Surface

Method Name	Min FS
Spencer	2.81



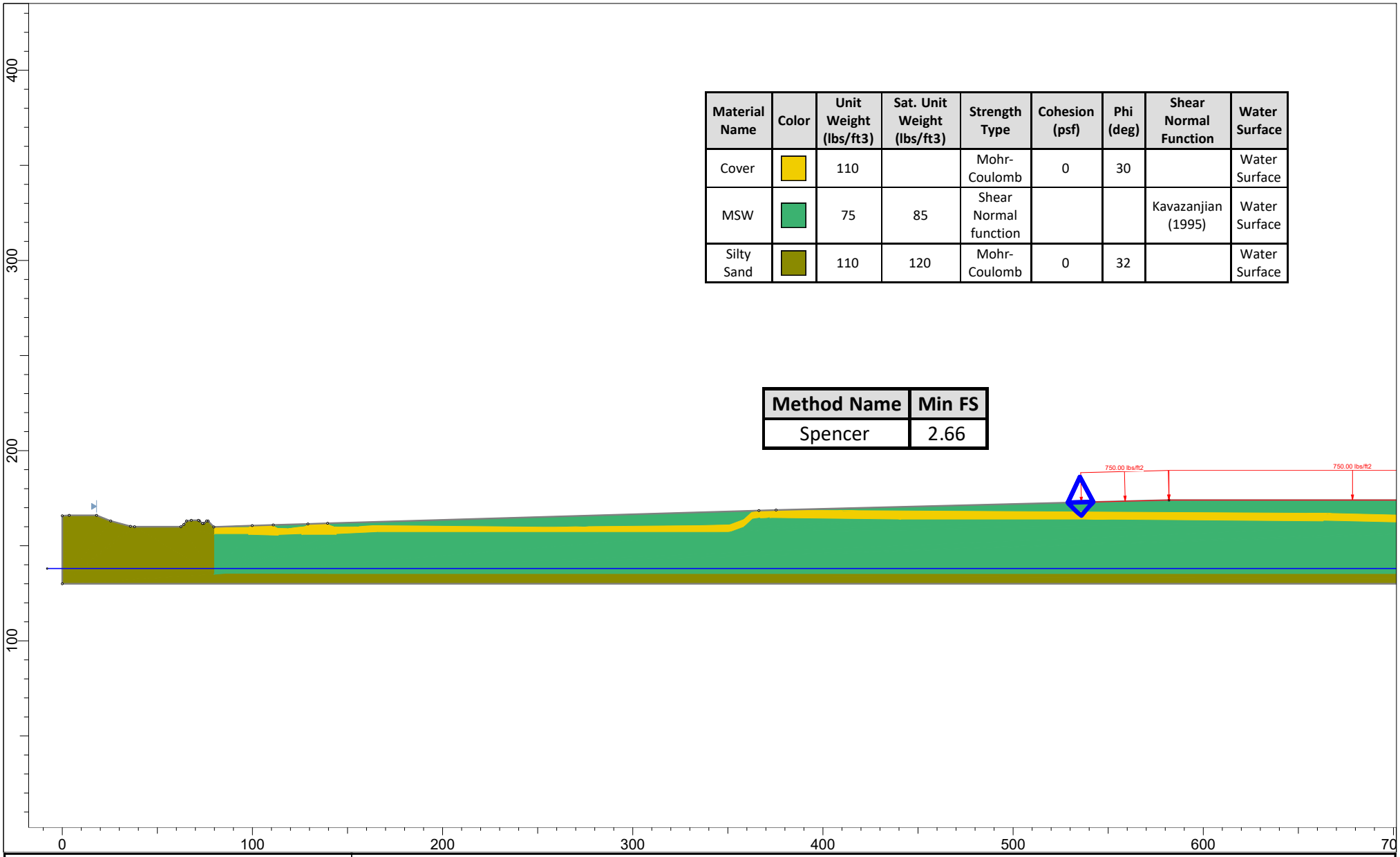
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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Non-circular Left to Right	Scenario	Master Scenario
Drawn By		Company	
Date	6/27/2022, 10:13:44 AM	File Name	Manchester LF_Sec. B.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Sat. Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Water Surface
Cover		110		Mohr-Coulomb	0	30		Water Surface
MSW		75	85	Shear Normal function			Kavazanjian (1995)	Water Surface
Silty Sand		110	120	Mohr-Coulomb	0	32		Water Surface

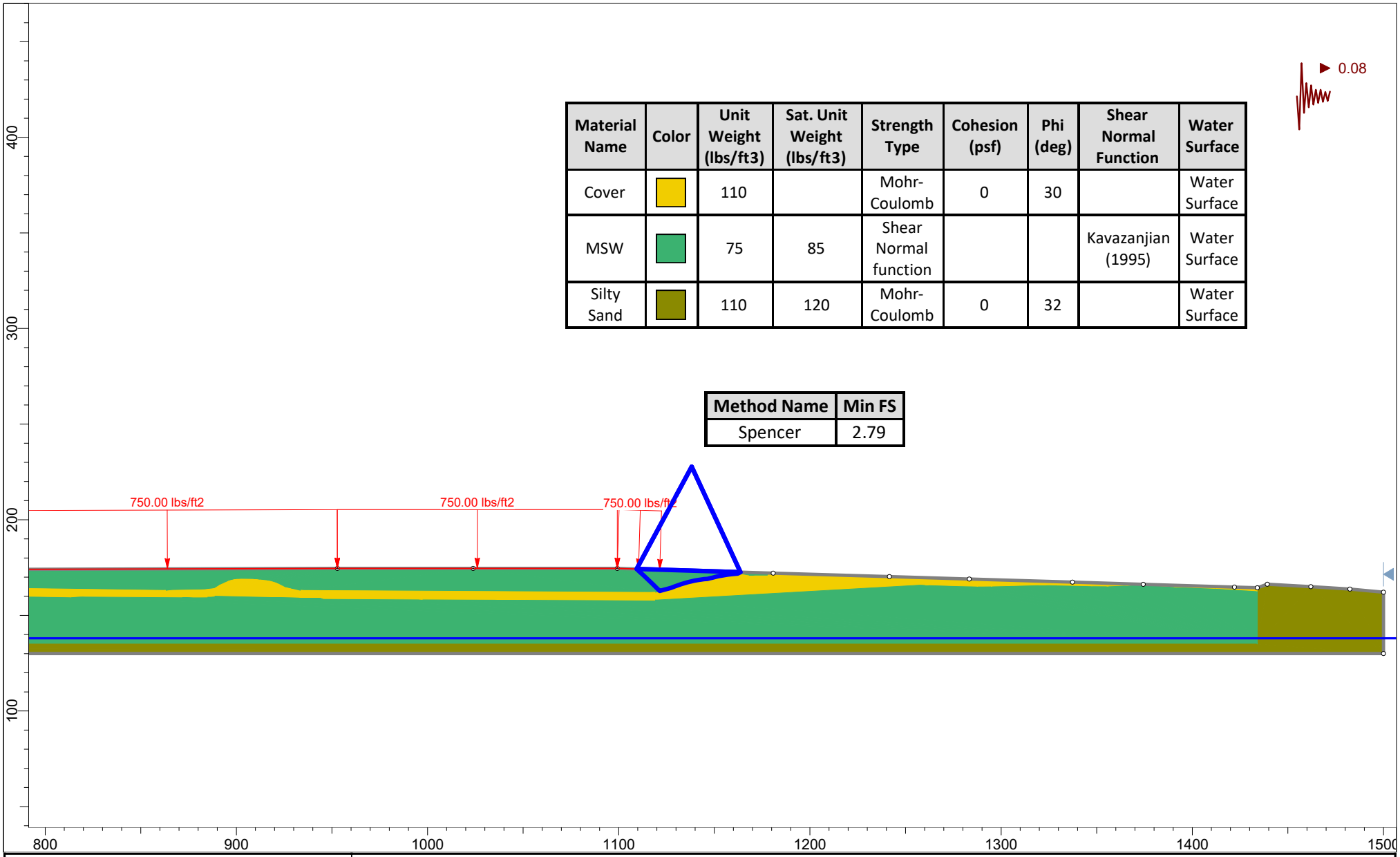
Method Name	Min FS
Spencer	2.66



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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Non-circular Right to Left	Scenario	Master Scenario
Drawn By		Company	
Date	6/27/2022, 10:13:44 AM	File Name	Manchester LF_Sec. B.slmd



Material Name	Color	Unit Weight (lbs/ft3)	Sat. Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Water Surface
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MSW		75	85	Shear Normal function			Kavazanjian (1995)	Water Surface
Silty Sand		110	120	Mohr-Coulomb	0	32		Water Surface

Method Name	Min FS
Spencer	2.79

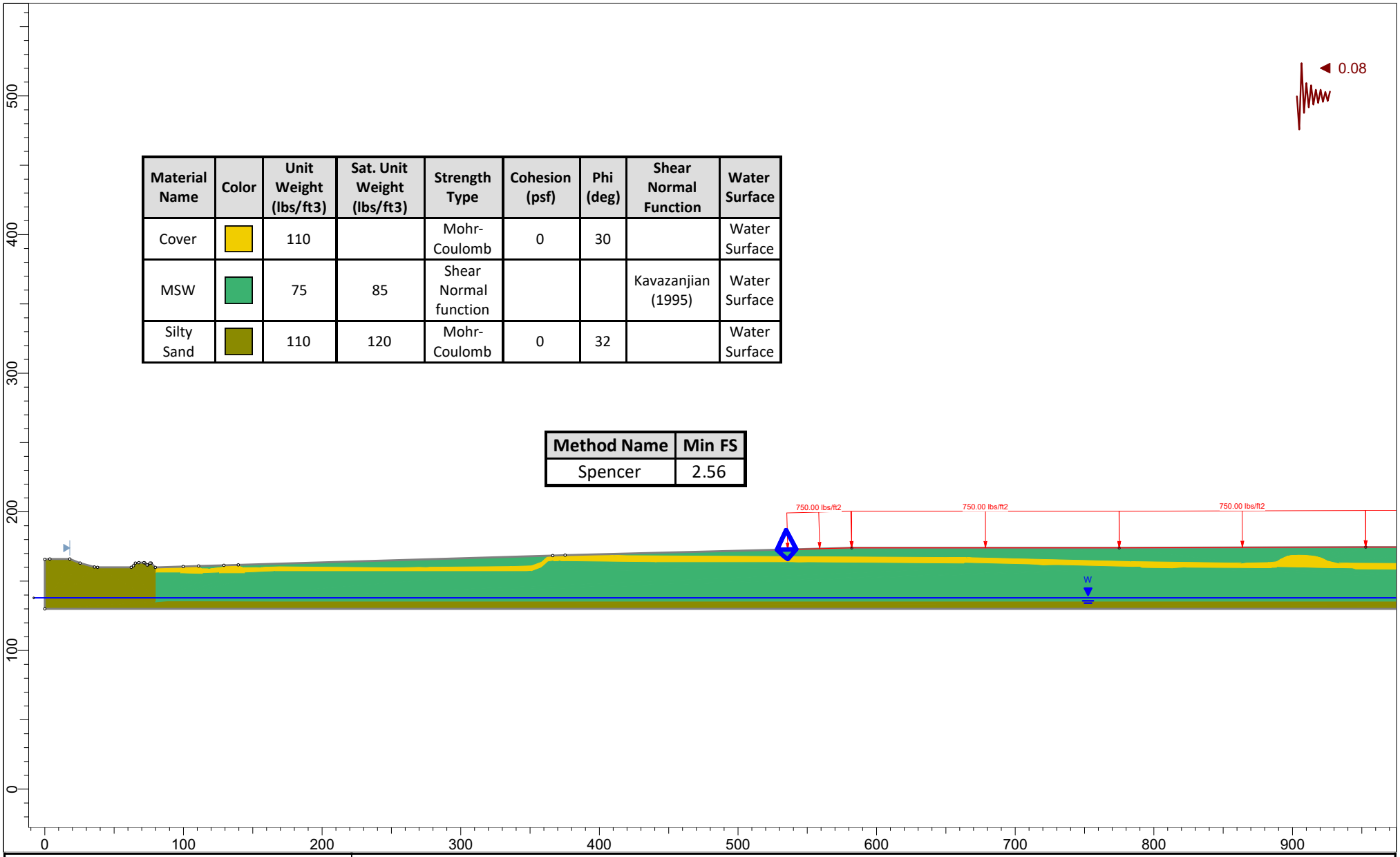
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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Seismic Non-circular Left to Right	Scenario	Master Scenario
Drawn By		Company	
Date	6/27/2022, 10:13:44 AM	File Name	Manchester LF_Sec. B.slmd

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MSW		75	85	Shear Normal function			Kavazanjian (1995)	Water Surface
Silty Sand		110	120	Mohr-Coulomb	0	32		Water Surface

Method Name	Min FS
Spencer	2.56

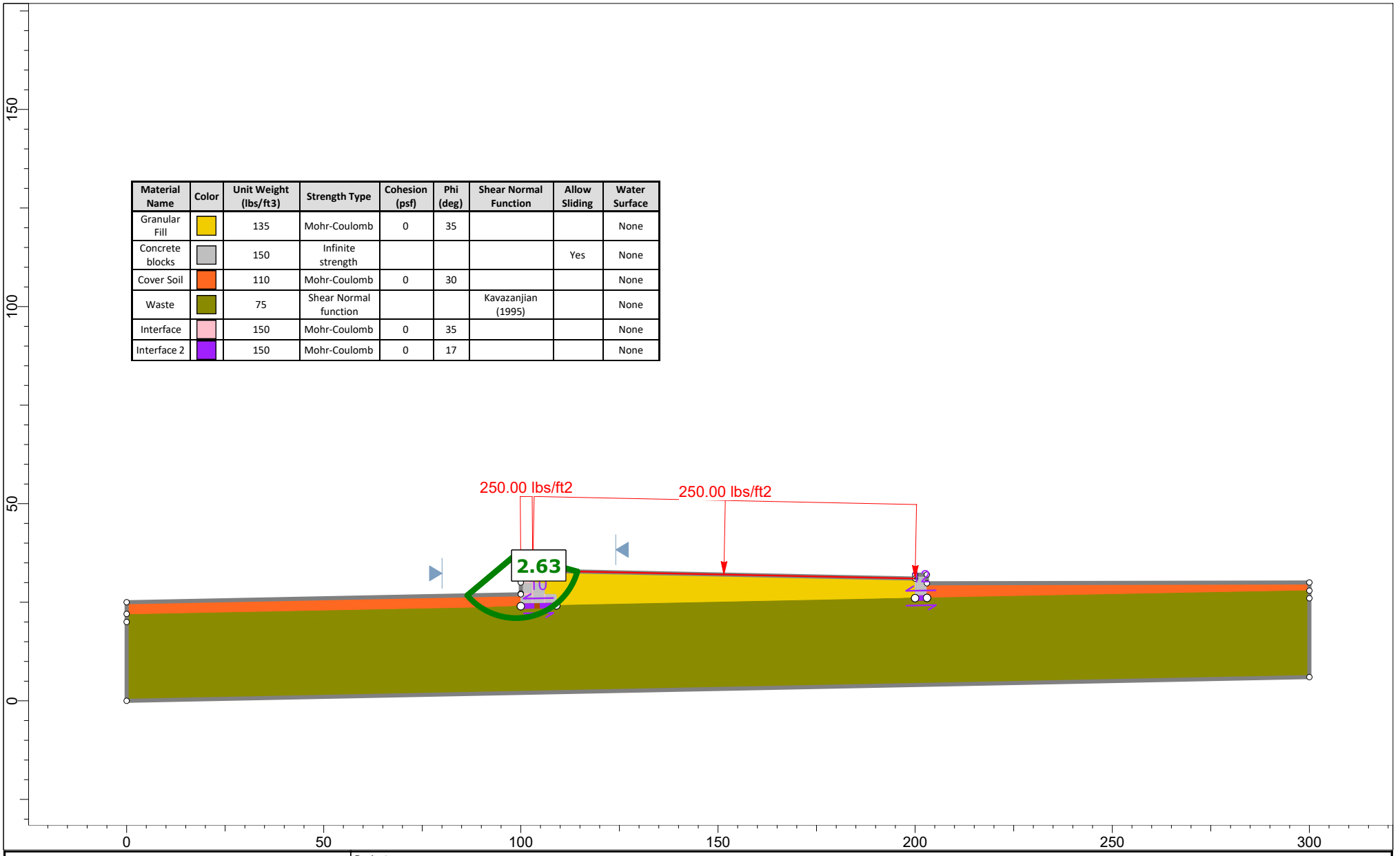


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Seismic Non-circular Right to Left	Scenario	Master Scenario
Drawn By		Company	
Date	6/27/2022, 10:13:44 AM	File Name	Manchester LF_Sec. B.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
Cover Soil		110	Mohr-Coulomb	0	30			None
Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
Interface 2		150	Mohr-Coulomb	0	17			None

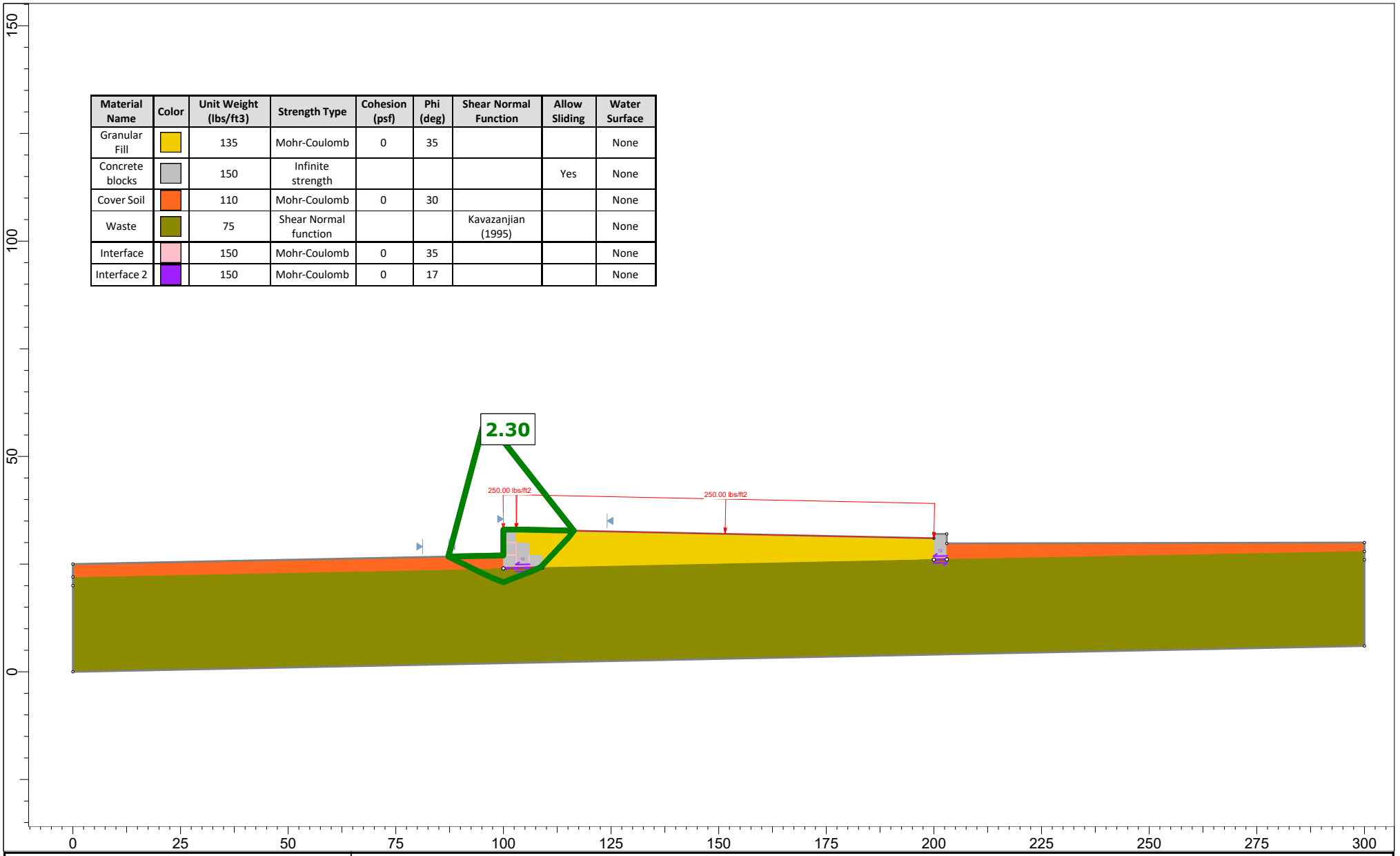


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Analysis	Scenario	Static Circular
Drawn By		Company	
Date	11/14/2022, 10:03:10 AM	File Name	Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
Cover Soil		110	Mohr-Coulomb	0	30			None
Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
Interface 2		150	Mohr-Coulomb	0	17			None

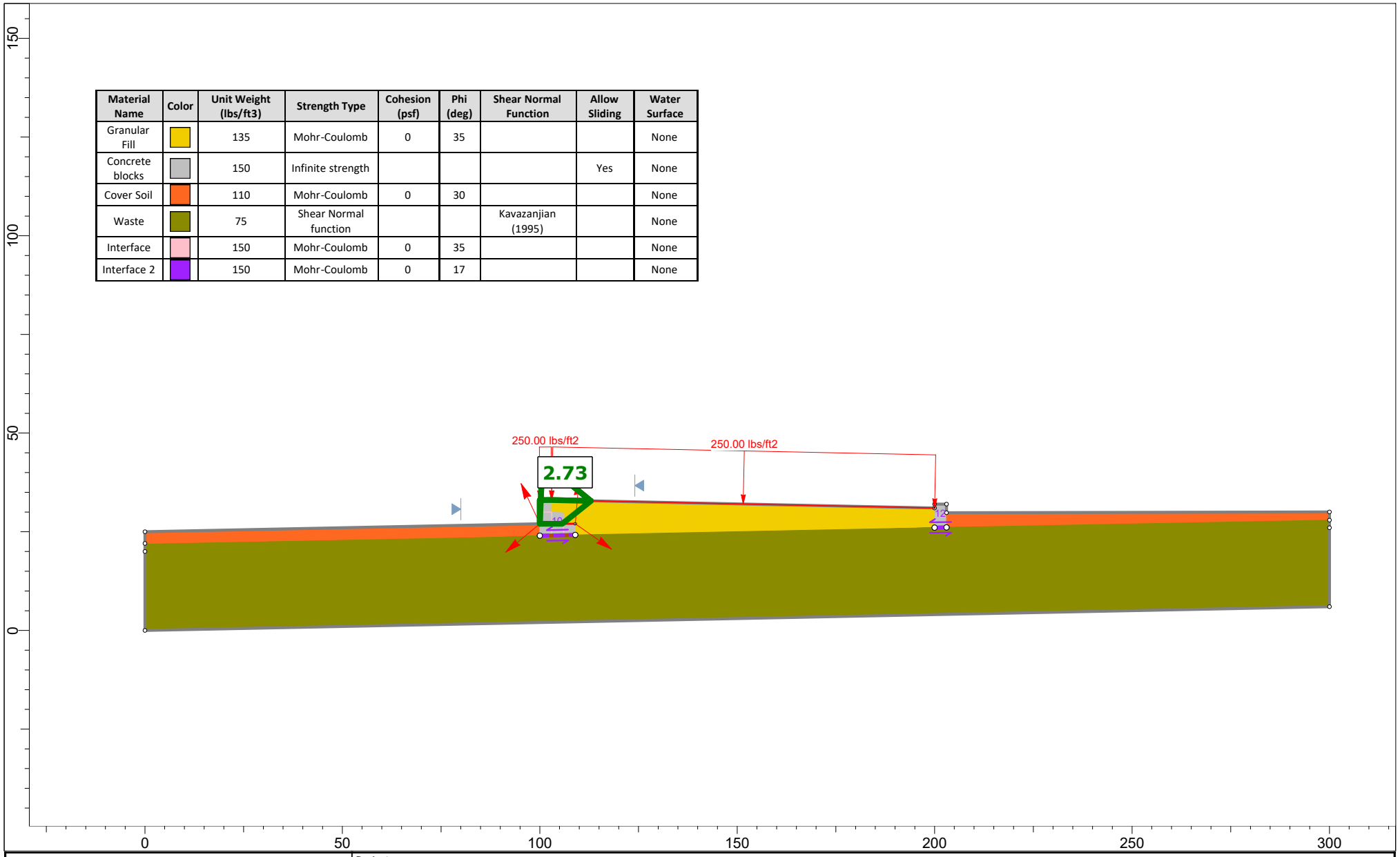


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Analysis	Scenario	Static Noncircular
Drawn By		Company	
Date	11/14/2022, 10:03:10 AM	File Name	Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
Cover Soil		110	Mohr-Coulomb	0	30			None
Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
Interface 2		150	Mohr-Coulomb	0	17			None

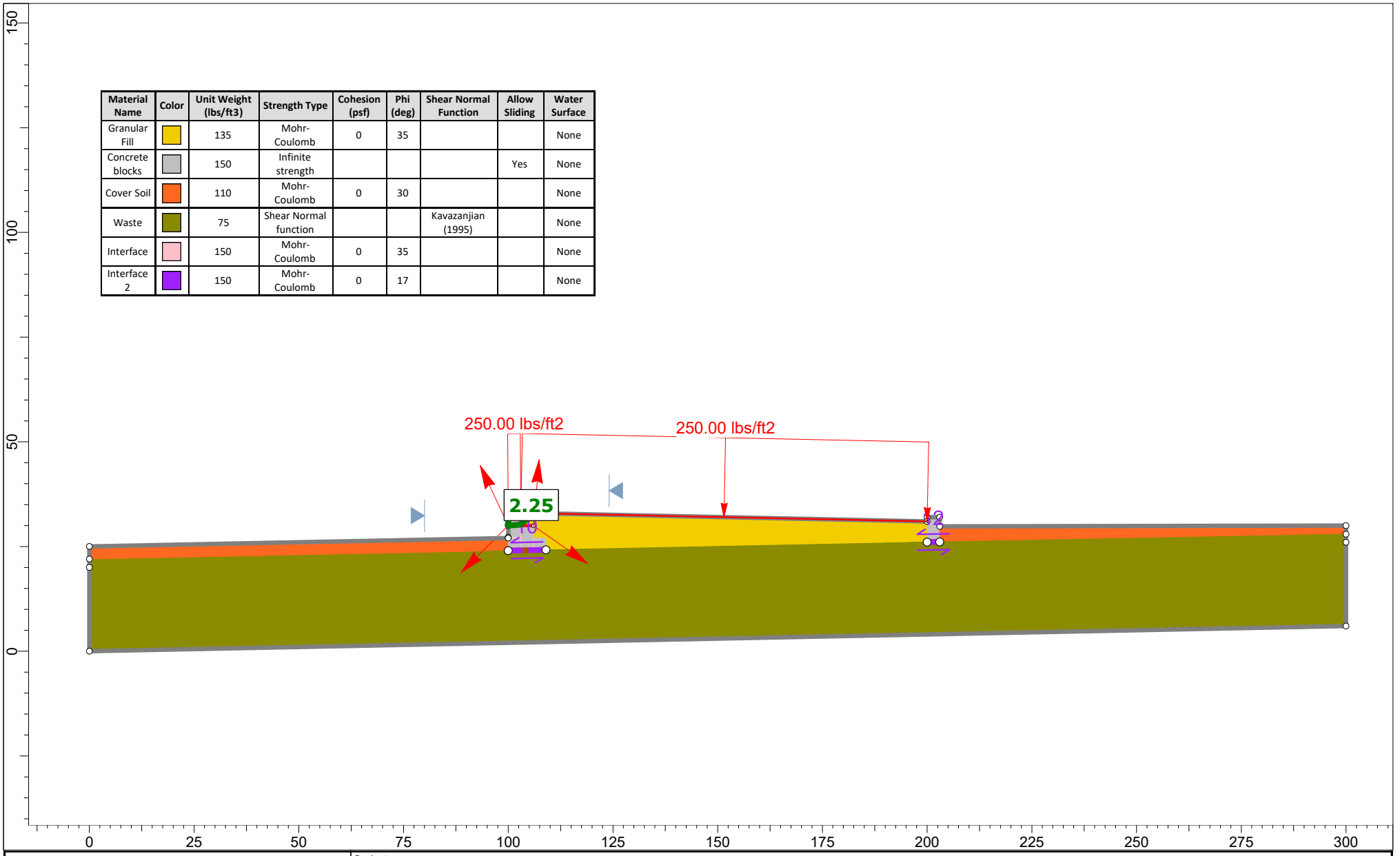


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Analysis	Scenario	Sliding
Drawn By		Company	
Date	11/14/2022, 10:03:10 AM	File Name	Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
Cover Soil		110	Mohr-Coulomb	0	30			None
Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
Interface 2		150	Mohr-Coulomb	0	17			None

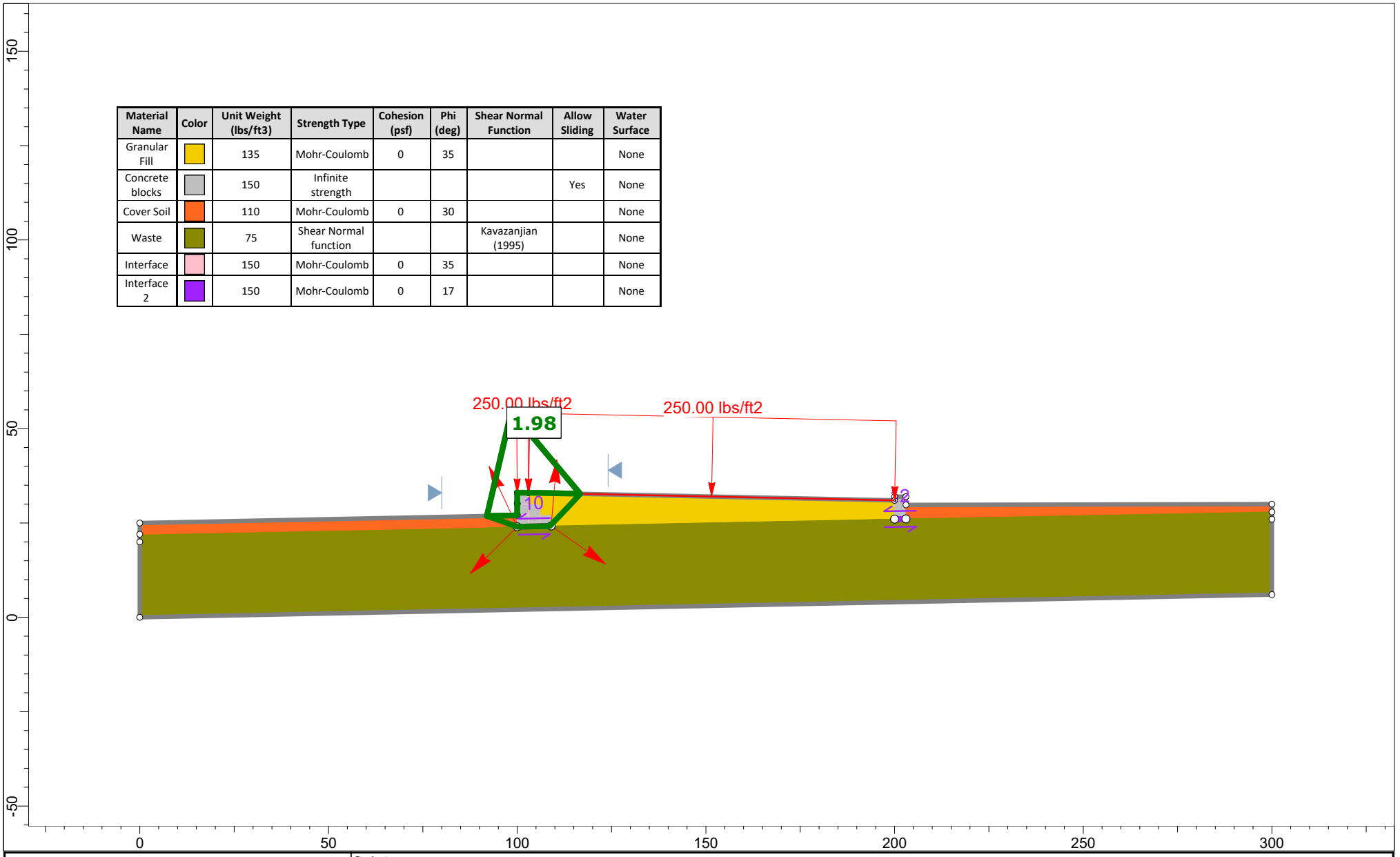


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Analysis	Scenario	Sliding 2
Drawn By		Company	
Date	11/14/2022, 10:03:10 AM	File Name	Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
Cover Soil		110	Mohr-Coulomb	0	30			None
Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
Interface 2		150	Mohr-Coulomb	0	17			None

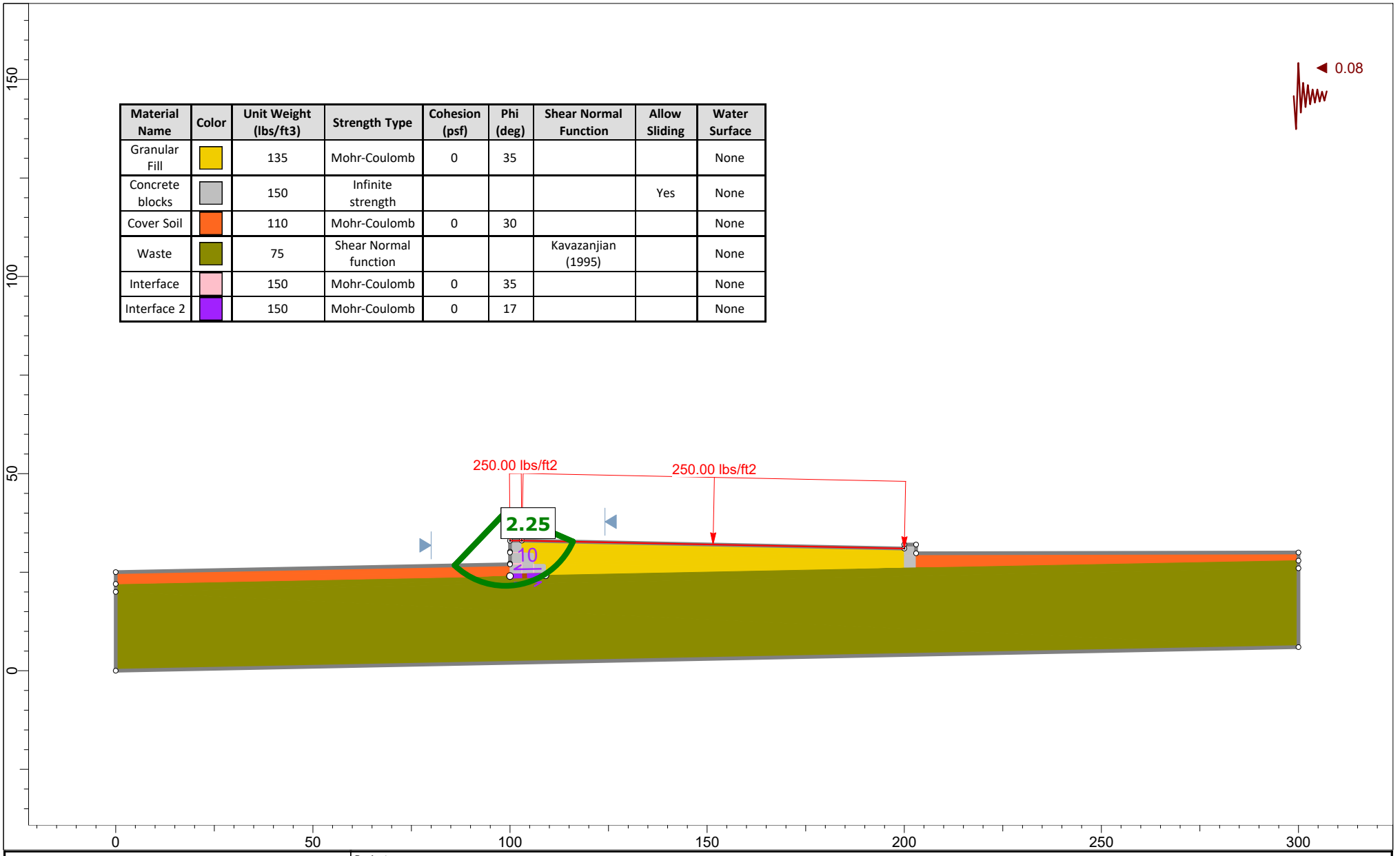


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Static Analysis	Scenario	Sliding 3
Drawn By		Company	
Date	11/14/2022, 10:03:10 AM	File Name	Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
Cover Soil		110	Mohr-Coulomb	0	30			None
Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
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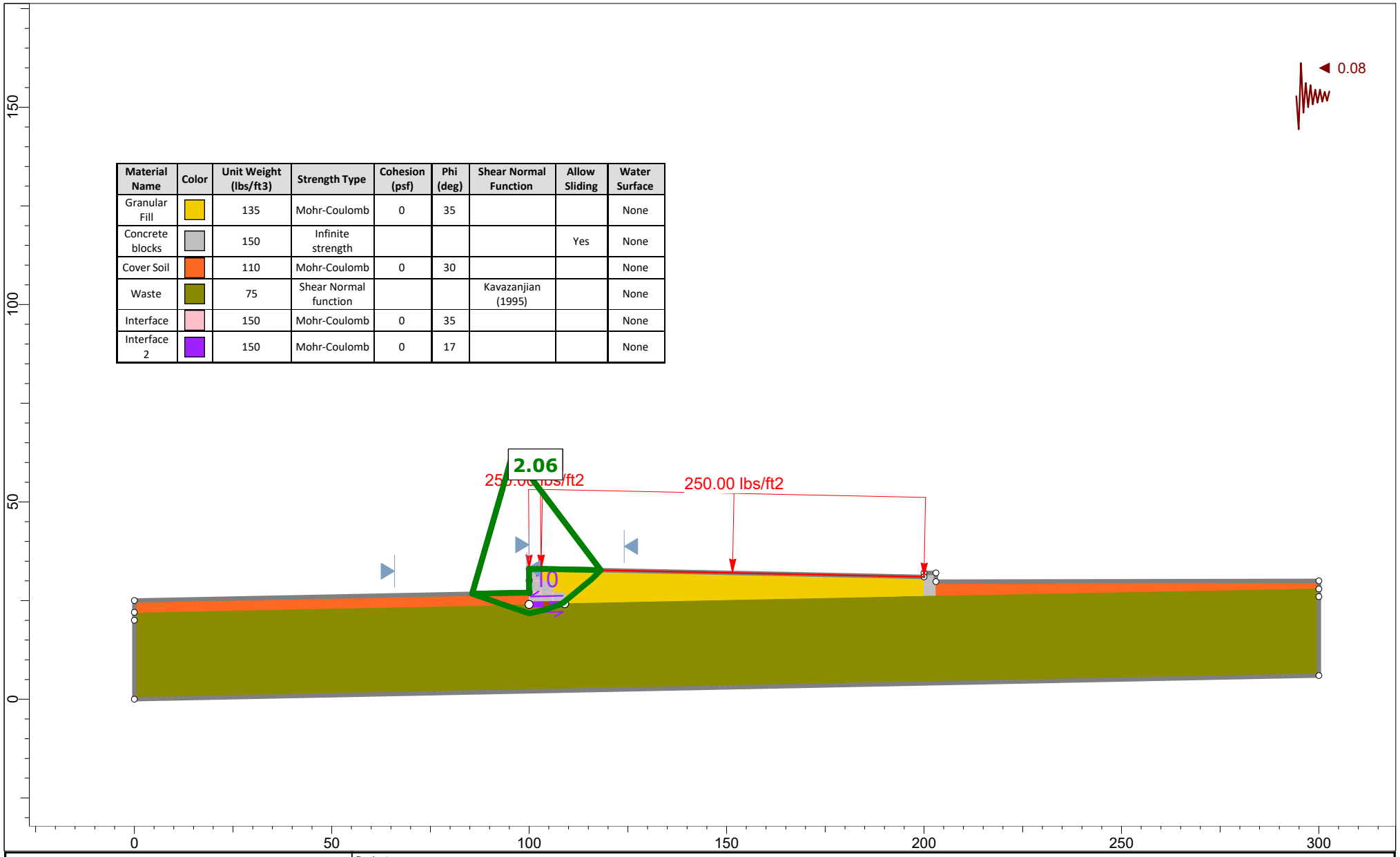


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Seismic Analysis	Scenario	Seismic Circular
Drawn By		Company	
Date	11/14/2022, 10:03:10 AM	File Name	Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
Cover Soil		110	Mohr-Coulomb	0	30			None
Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
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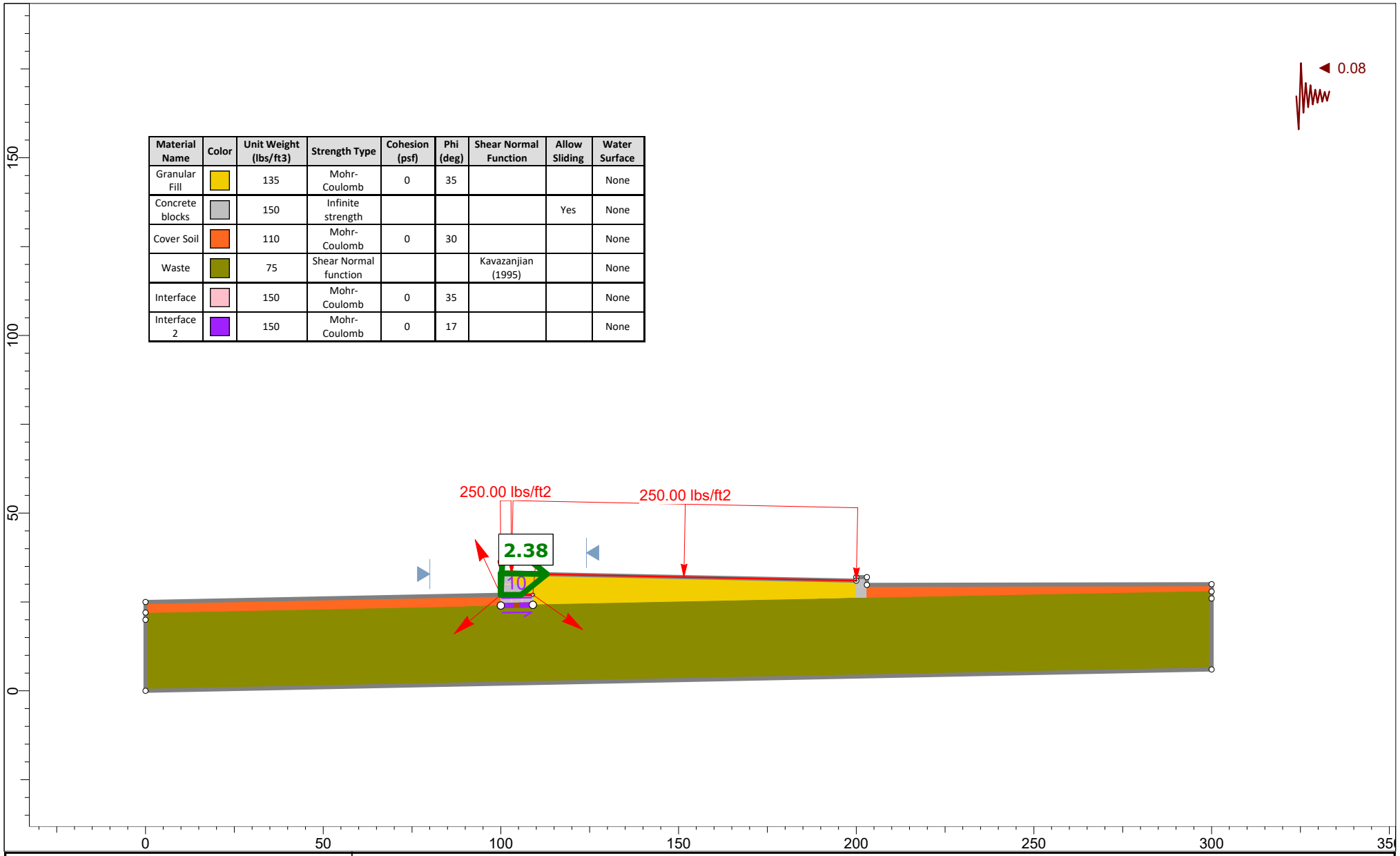


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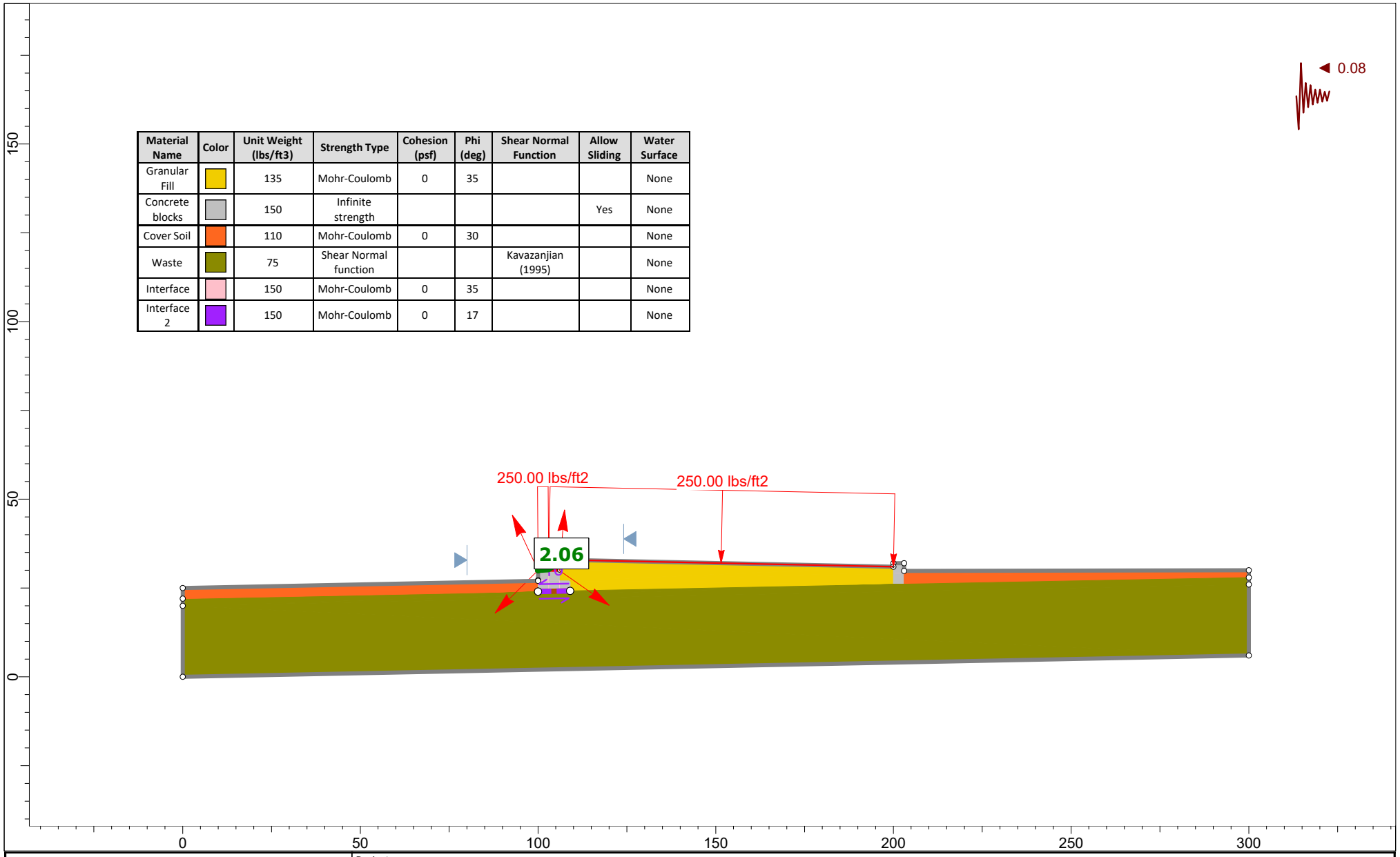
Project	SLIDE - An Interactive Slope Stability Program		
Group	Seismic Analysis	Scenario	Seismic Noncircular
Drawn By		Company	
Date	11/14/2022, 10:03:10 AM	File Name	Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
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Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
Interface 2		150	Mohr-Coulomb	0	17			None



rocscience	Project	SLIDE - An Interactive Slope Stability Program	
	Group	Seismic Analysis	Scenario: Sliding
	Drawn By		Company
SLIDEINTERPRET 9.018	Date	11/14/2022, 10:03:10 AM	File Name: Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
Cover Soil		110	Mohr-Coulomb	0	30			None
Waste		75	Shear Normal function			Kavazanjian (1995)		None
Interface		150	Mohr-Coulomb	0	35			None
Interface 2		150	Mohr-Coulomb	0	17			None

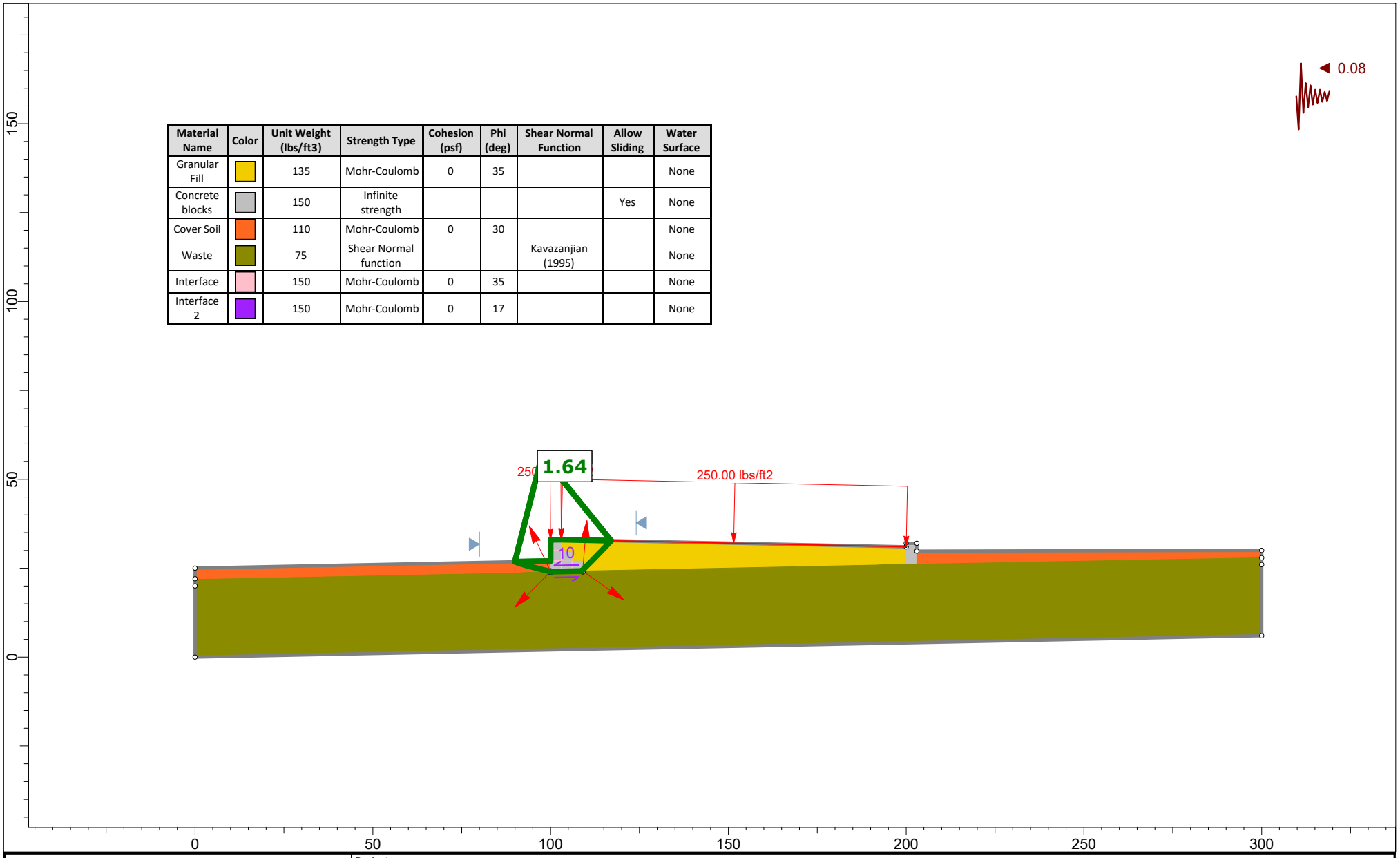


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SLIDEINTERPRET 9.018

Project	SLIDE - An Interactive Slope Stability Program		
Group	Seismic Analysis	Scenario	Sliding 2
Drawn By		Company	
Date	11/14/2022, 10:03:10 AM	File Name	Manchester LF-Bin Block Section Updated.slmd

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding	Water Surface
Granular Fill		135	Mohr-Coulomb	0	35			None
Concrete blocks		150	Infinite strength				Yes	None
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Interface		150	Mohr-Coulomb	0	35			None
Interface 2		150	Mohr-Coulomb	0	17			None



rocscience	Project	SLIDE - An Interactive Slope Stability Program	
	Group	Seismic Analysis	Scenario: Sliding 3
	Drawn By		Company
SLIDEINTERPRET 9.018	Date	11/14/2022, 10:03:10 AM	File Name: Manchester LF-Bin Block Section Updated.slmd

ATTACHMENT 3

Bin Block Overturning Analysis

Project	Manchester Landfill	**Date**	1/27/2023	**Date**	2/1/2023
Client	NextGrid	**Written by**	R. Jaber	**Reviewed by**	B. Mahmoodi

Bin Block Overturning Analysis

Material Properties

Granular Fill

Unit weight	135	pcf
Cohesion	0	psf
Friction angle	35	deg

Input Parameters

Angle of inclined backfill	β	1	deg
Internal friciton angle	ϕ	35	deg
Wall-backfill interface friction angle	δ	23	deg
Slope height	H	9	ft
Surcharge load	S	250	lb/ft^2

At-rest earth pressure coefficient	k_a	0.43	-
Hor. at rest earth pressure coefficient	$k_{a,h}$	0.43	-

Overturning Analysis

$$F_{OM} = \frac{M_{resisting}}{M_{overtuning}}$$

Overtuning Forces

Lateral Earth pressure	E_h	2331	lb/ft
Distance to left toe of gravity wall	Y_E	3	ft
Overtuning Moment	$M_{overturning}$	6993	lb.ft/ft
Lateral Surcharge pressure	S_h	959	lb/ft
Distance to left toe of gravity wall	Y_S	4.5	ft
Overtuning Moment	$M_{overturning}$	4317	lb.ft/ft

	$\Sigma M_{overturning}$	11310	lb.ft/ft

Resisting Forces

Weight of gravity wall	W_w	11340	lb/ft
Distance to left toe of gravity wall	x_w	4.5	ft
Resisting Moment	$M_{resisting}$	51030	lb.ft/ft

	$\Sigma M_{overturning}$	51030	lb.ft/ft

Factor of safety against overtuning	**F_{OM}**	**4.51**

FINAL COVER SYSTEM SETTLEMENT ANALYSIS
MANCHESTER TOWNSHIP LANDFILL FINAL CLOSURE
MANCHESTER, NEW JERSEY

PURPOSE

The purpose of this calculation package is to evaluate the settlement of the proposed cover system at the Manchester Landfill (Site) in Manchester, Ocean County, New Jersey, relative to the slope requirements of New Jersey Administrative Code (NJAC) 7:26-2A7(i)(5).

The settlement of waste under the overburden or external (i.e., solar energy system) loading contributes to the potential settlement of the cover system and could result in an undesirable change in the final grades. Therefore, the main objective of this analysis is to estimate the settlement of the cover system and assess whether the design slopes are sufficient to provide adequate stormwater drainage and reduce the potential for differential settlement to affect the performance of the solar energy system.

SUBSURFACE STRATIGRAPHY

The subsurface stratigraphy comprises municipal solid waste (MSW) placed as a fill overlying the soil cover system placed over a varying thickness of waste, which comprises various municipal wastes (glass, timber, plastic, etc.). The cover soil and waste overlie a stratum of silty sand. Site stratigraphy and groundwater table conditions were inferred from *Site Hydrogeologic Investigation Report* prepared by *Maser Consulting* dated October 2020.

The materials and material properties used in this analysis are presented below and summarized in **Table 1**.

Waste

The unit weight of waste was selected based on a typical value for municipal solid waste (MSW). The selected modified compression index for waste is at the lower-middle range recommended by Qian et al. (2002) to account for the age of the waste (i.e., between approximately 40 and 48 years). The modified secondary compression index was selected as 0.05 times the modified compression index.

Since the waste relocated to achieve subgrade elevations will be compacted, only the volume change of the in-place thickness of waste is included in this settlement calculation.

As there is not sufficient information available to characterize the bottom of waste elevation along the full cross-section evaluated, therefore, the bottom of waste was assumed to be at a constant elevation. It is likely that closer to the landfill boundaries, the bottom of the waste is actually at a higher elevation, however, because the magnitude of settlement estimated using the assumption of a constant waste bottom is relatively small at the landfill boundaries, variations in the actual elevation of the bottom of waste is not expected to significant impact the settlement results and the use of a constant bottom of waste elevation is acceptable.

Sand

The sand is a native soil existing below the waste. The top of the sand coincides with the bottom of waste (i.e., elevation 135 feet NAVD88). Based on the characteristics of this sand layer and as the solar development will not appreciably increase the load on the foundations soils, it is expected that most of the induced settlement take place immediately. Therefore, this layer is excluded from settlement calculations.

Cover Soils

The cover system will comprise 18 inches of sand cover soil and 6 inches of topsoil. Some of the sand cover soil will be sourced from an onsite borrow area excavated in the sand stratum and the remaining cover soil will be sourced from an off-site borrow area.

Groundwater

Based on the "Revised Site Hydrogeologic Investigation Report" dated June 2022, the groundwater table elevation beneath the landfill is at elevation 138 ft NAVD88.

METHOD OF ANALYSIS

The locations of the settlement analyses are shown in **Figure 1**. Sections A-A′ and B-B′ were selected to evaluate settlement along the slope representative of the overall landfill conditions relative to drainage path length and variations in cut and fill.

Consolidation of the waste was estimated using equations developed for conventional one-dimensional consolidation theory used in geotechnical engineering. Consolidation is assumed to be caused by the following mechanisms:

- Primary (i.e., mechanical) compression of MSW due to surcharge (solar array) or subgrade fill placement.
- Secondary compression caused by biological degradation of organic material and/or creep, which is independent of loading.

It is assumed that the waste is normally consolidated, such that there is no recompression settlement from loading. The primary consolidation of waste is estimated using the following equation (after Qian, et al., 2002):

$$S_c = H_0 \times C'_c \times log \frac{\sigma'_{v0} + \Delta\sigma'_v}{\sigma'_{v0}}$$

Where

S_c = settlement due to primary consolidation (ft);

H_0 = initial thickness of the layer being evaluated (ft);

σ'_{v0} = initial effective vertical stress at the depth being evaluated (psf);

C'_c = modified compression index (compression ratio); and

$\Delta\sigma'_v$ = change in effective vertical stress at the depth being evaluated (psf).

The secondary compression of the waste is estimated with:

$$S_s = C'_\alpha \times H_0 \times log\frac{t_2}{t_1}$$

Where

S_s = settlement due to secondary compression (ft);

C'_α = modified secondary compression index (secondary compression ratio);

t_2 = time at the end of secondary compression (years) and

t_1 = time at the start of secondary compression (years).

The time to end of primary consolidation (t_1) was estimated to be 3 months with the time of interest for secondary consolidation (t_2) selected as 30 years, which is the typical end of post-closure care.

The total settlement at each analysis location is the sum of primary and secondary consolidation of the subgrade soils and the settlement of the waste:

$$S_{total} = S_c + S_s$$

The change in grade resulting from differential settlement is calculated as follows:

$$\Delta Grade\ (\%) = \left(\frac{\Delta S}{L}\right) \times 100\%$$

Where

ΔS = difference in settlement at two points of interest; and

L = horizontal distance between locations of interest.

A 750 pound per square foot (psf) distributed load is assumed at settlement locations over which the solar energy system would be constructed, based on the estimated ground pressure of the solar energy system ballast blocks. Note that while this load is consistent with the bearing pressure of the ballast blocks, application of the load as a uniform load (i.e., no stress distribution with depth) is conservative.

RESULTS

The results of the settlement analysis for section A-A' indicate a minimum post-settlement slope of 2.7% based on the proposed grades. However, results for section B-B' indicate that the proposed grades result in a minimum post-settlement slope of 1.6% percent between settlement points C and D on Section B-B′. While these slopes are below the minimum slope criteria set forth in NJAC 7:26-2A7(i)(5) (i.e., 3 percent), the slopes will still provide adequate stormwater drainage along primary drainage paths (i.e., perpendicular to the landfill slope), and therefore, is considered acceptable. Further, the results do not indicate excessive differential settlement along either Section A or Section B. Settlement calculations are provided in **Attachment 1**.

REFERENCES

Coduto, D. (2001). "Foundation Design Principles and Practices." Prentice Hall, Upper Saddle River, N.J., 2nd ed.

Holtz, R.D., and W.D. Kovacs. (1981). "An Introduction to Geotechnical Engineering." Prentice Hall, Englewood Cliffs, New Jersey.

Qian, X., Koerner, R.M., and Gray, D.H. (2002). "Geotechnical Aspects of Landfill Design and Construction." Prentice Hall, New Jersey.

TABLE

Table 1. Material Properties

Stratum	Description	Unit Weight (pcf) [4]	Saturated Unit Weight (pcf)	Compression Ratio	Secondary Compression Ratio	Reference
1	Waste	75	85	0.200	0.010	(1)
--	Silty Sand	110	120	--	--	(2)(3)
--	Cover Soil	110	--	--	--	(2)

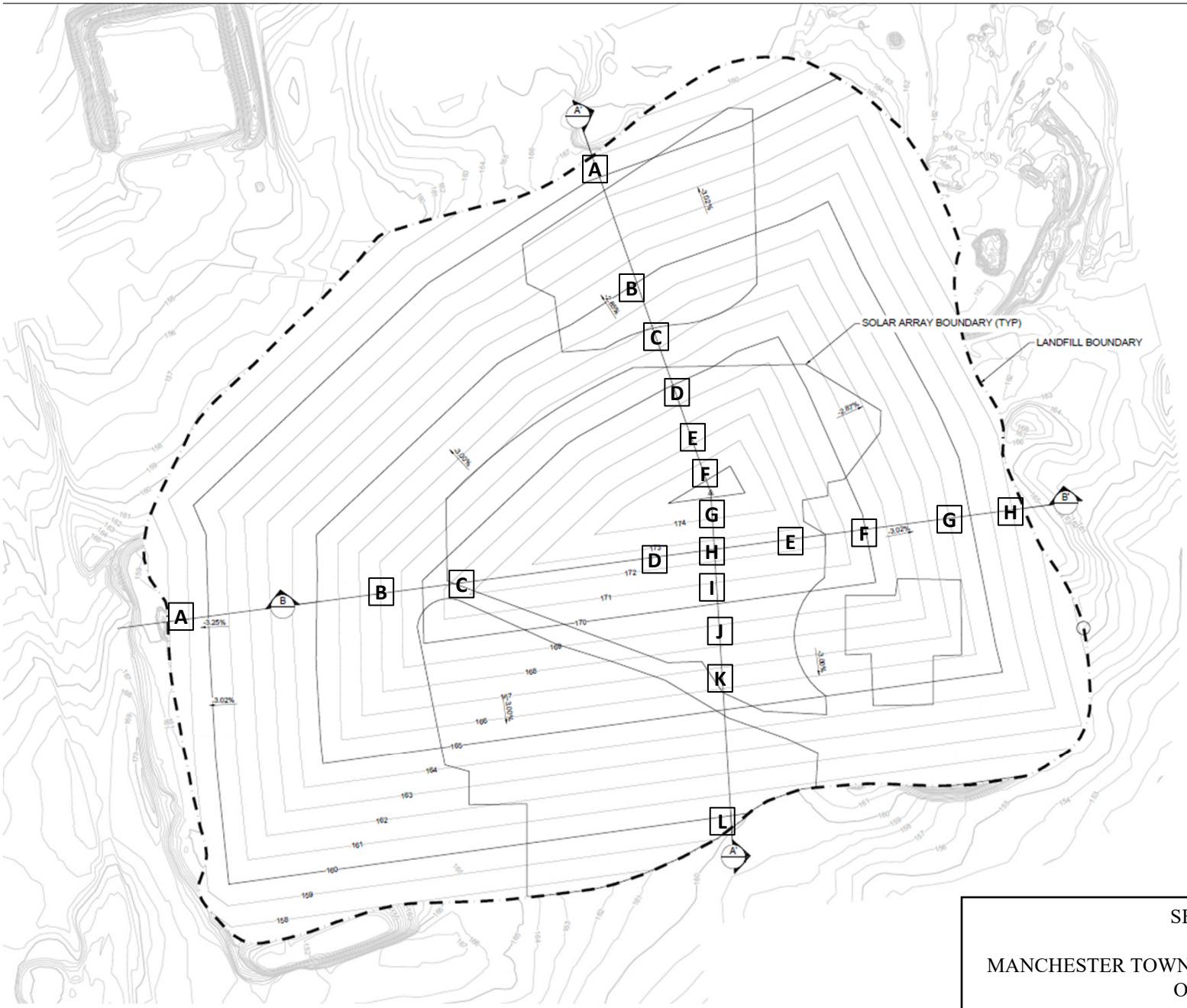
Note: (1) From lower- to- mid range recommended by Qian et al. (2002) based on the age and composition of the waste.

(2) Silty sand will undergo immediate settlement upon loading with no post-closure settlement.

(3) Coduto (2001)

(4) PCF = pounds per cubic foot

FIGURE


A'
A
B
C
D
E
F
G
H
I
J
K
L
B'
SOLAR ARRAY BOUNDARY (TYP)
LANDFILL BOUNDARY
-3.25%
-3.02%
-2.87%
-3.00%
-3.00%
-3.02%
-3.02%
-3.02

ATTACHMENT 1

Settlement Calculations

Section A

Point A

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical Effective Stress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	3.9	3.9	292.5	146.25	1.95	157.1	0	146.25	146.25	146.3	0.000	0.000
Waste 2	75	8.5	12.4	930	611.25	8.15	150.9	0	611.25	611.25	611.3	0.000	0.000
Waste 3	75	8.5	20.9	1567.5	1248.75	16.65	142.4	0	1248.75	1248.75	1248.8	0.000	0.000
Waste 4	85	3	23.9	1822.5	1607.64	22.4	136.6	87.36	1695.00	1607.64	1607.6	0.000	0.000
											Total	0.000	0.000

Existing Grade (ft)	159.0	t1 (years)	0.25	Solar Load (psf)	0
Design Subgrade EL. (ft)	159.0	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point B

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	7.9	7.9	592.5	681.25	3.95	158.9	0	681.25	681.25	1969.1	0.728	0.164
Waste 2	75	8.5	16.4	1230	1296.25	12.15	150.7	0	1296.25	1296.25	2584.1	0.509	0.177
Waste 3	75	8.5	24.9	1867.5	1933.75	20.65	142.2	0	1933.75	1933.75	3221.6	0.377	0.177
Waste 4	85	3	27.9	2122.5	2284.03	26.4	136.5	95.9712	2380.00	2284.03	3571.9	0.117	0.062
											Total	1.731	0.580

Existing Grade (ft)	166.4	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	168.4	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point C

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	5.03	5.03	377.25	628.63	2.515	159.8	0	628.63	628.63	1971.5	0.499	0.10
Waste 2	75	8.5	13.53	1014.75	1136.00	9.28	153.1	0	1136.00	1136.00	2478.9	0.576	0.18
Waste 3	75	8.5	22.03	1652.25	1773.50	17.78	144.6	0	1773.50	1773.50	3116.4	0.416	0.18
Waste 4	85	3	25.03	1907.25	2219.75	23.53	138.8	0	2219.75	2219.75	3562.6	0.123	0.06
											Total	1.615	0.520

Existing Grade (ft)	164.0	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	171.3	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point D

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	2.9	2.948	221.1	550.55	1.474	160.9	0	550.55	550.55	1893.4	0.316	0.06
Waste 2	75	8.5	11.448	858.6	979.85	7.198	155.2	0	979.85	979.85	2322.7	0.637	0.18
Waste 3	75	8.5	19.948	1496.1	1617.35	15.698	146.7	0	1617.35	1617.35	2960.2	0.446	0.18
Waste 4	85	3	22.948	1751.1	2063.60	21.448	140.9	0	2063.60	2063.6	3406.5	0.131	0.06
											Total	1.530	0.477

Existing Grade (ft)	161.953	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	173.282	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point E

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	2.8	2.785	208.875	544.44	1.3925	156.5	0	544.44	544.4375	2714.5	0.389	0.06
Waste 2	75	8.5	11.285	846.375	967.63	7.035	150.8	0	967.63	967.625	3137.7	0.869	0.18
Waste 3	75	8.5	19.785	1483.875	1605.13	15.535	142.3	0	1605.13	1605.125	3775.2	0.631	0.18
Waste 4	85	3	22.785	1738.875	1963.02	21.285	136.6	88.3584	2051.38	1963.0166	4133.1	0.194	0.06
											Total	2.083	0.474

Existing Grade (ft)	161.869	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	174.937	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point F

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	2.8	2.785	208.875	544.44	1.3925	156.5	0	544.44	544.4375	2714.5	0.389	0.06
Waste 2	75	8.5	11.285	846.375	967.63	7.035	150.8	0	967.63	967.625	3137.7	0.869	0.18
Waste 3	75	8.5	19.785	1483.875	1605.13	15.535	142.3	0	1605.13	1605.125	3775.2	0.631	0.18
Waste 4	85	3	22.785	1738.875	1963.02	21.285	136.6	88.3584	2051.38	1963.0166	4133.1	0.194	0.06
											Total	2.083	0.474

Existing Grade (ft)	161.901	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	176.658	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point G

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	2.8	2.785	208.875	544.44	1.3925	156.5	0	544.44	544.4375	2714.5	0.389	0.06
Waste 2	75	8.5	11.285	846.375	967.63	7.035	150.8	0	967.63	967.625	3137.7	0.869	0.18
Waste 3	75	8.5	19.785	1483.875	1605.13	15.535	142.3	0	1605.13	1605.125	3775.2	0.631	0.18
Waste 4	85	3	22.785	1738.875	1963.02	21.285	136.6	88.3584	2051.38	1963.0166	4133.1	0.194	0.06
											Total	2.083	0.474

Existing Grade (ft)	161.901	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	177.5	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point H

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	3.7	3.689	276.675	578.34	1.8445	156.9	0	578.34	578.3375	2780.5	0.503	0.08
Waste 2	75	8.5	12.189	914.175	1035.43	7.939	150.8	0	1035.43	1035.425	3237.6	0.842	0.18
Waste 3	75	8.5	20.689	1551.675	1672.93	16.439	142.3	0	1672.93	1672.925	3875.1	0.620	0.18
Waste 4	85	3	23.689	1806.675	2030.01	22.189	136.6	89.1696	2119.18	2030.0054	4232.2	0.191	0.06
											Total	2.156	0.493

Existing Grade (ft)	162.76	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	176.256	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point I

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	3.7	3.656	274.2	577.10	1.828	156.9	0	577.10	577.1	2779.3	0.499	0.076
Waste 2	75	8.5	12.156	911.7	1032.95	7.906	150.9	0	1032.95	1032.95	3235.2	0.843	0.177
Waste 3	75	8.5	20.656	1549.2	1670.45	16.406	142.4	0	1670.45	1670.45	3872.7	0.621	0.177
Waste 4	85	3	23.656	1804.2	2029.59	22.156	136.6	87.1104	2116.70	2029.5896	4231.8	0.191	0.062
											Total	2.154	0.492

Existing Grade (ft)	162.76	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	174.327	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point J

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	3.3	3.25	243.75	561.88	1.625	157.1	0	561.88	561.875	2764.1	0.450	0.068
Waste 2	75	8.5	11.75	881.25	1002.50	7.5	151.3	0	1002.50	1002.5	3204.7	0.858	0.177
Waste 3	75	8.5	20.25	1518.75	1640.00	16	142.8	0	1640.00	1640	3842.2	0.629	0.177
Waste 4	85	3	23.25	1773.75	2024.47	21.75	137.0	61.776	2086.25	2024.474	4226.7	0.192	0.062
											Total	2.128	0.483

Existing Grade (ft)	162.284	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	172.69	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point K

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	4.6	4.583	343.725	611.86	2.2915	156.5	0	611.86	611.8625	2814.1	0.607	0.095
Waste 2	75	8.5	13.083	981.225	1102.48	8.833	149.9	0	1102.48	1102.475	3304.7	0.810	0.177
Waste 3	75	8.5	21.583	1618.725	1739.98	17.333	141.4	0	1739.98	1739.975	3942.2	0.604	0.177
Waste 4	85	3	24.583	1873.725	2041.27	23.083	135.7	144.9552	2186.23	2041.2698	4243.5	0.191	0.062
											Total	2.212	0.511

Existing Grade (ft)	163.746	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	171.028	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point L

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	1.2	1.2	90	430.00	0.6	170.2	0	430.00	430	430.0	0.000	0.000
Waste 2	75	8.5	9.7	727.5	793.75	5.45	165.4	0	793.75	793.75	793.8	0.000	0.000
Waste 3	75	8.5	18.2	1365	1431.25	13.95	156.9	0	1431.25	1431.25	1431.3	0.000	0.000
Waste 4	85	3	21.2	1620	1877.50	19.7	151.1	0	1877.50	1877.5	1877.5	0.000	0.000
											Total	0.000	0.000

Existing Grade (ft)	159.5	t1 (years)	0.25	Solar Load (psf)	0
Design Subgrade EL. (ft)	159.5	t2 (years)	30		
Ground Water Elevation (ft)	138				

Summary Section A

	A	B	C	D	E	F	G	H	I	J	K	L
Station (ft)	67.2	326.6	426.2	488.2	540.2	591.5	619	661.0	725.4	780.1	835.6	1154.5
Proposed Grade (ft)	159.00	168.40	171.35	173.28	174.94	176.66	177.50	176.26	174.33	172.69	171.03	159.50
Post Settlement Grade (ft)	159.00	166.09	168.90	170.79	172.38	174.03	174.84	173.61	171.77	170.22	168.62	159.50
Settlement (ft)	0.00	2.31	2.45	2.49	2.56	2.63	2.66	2.65	2.56	2.47	2.41	0.00
Post Closure Gradiant	2.7%		3.0%		3.2%		-2.9%		-2.8%		-2.9%	
		2.8%		3.1%		2.9%		-2.9%		-2.9%		
Proposed Gradiant	3.6%		3.1%		3.4%		-3.0%		-3.0%		-3.6%	
		3.0%		3.2%		3.1%		-3.0%		-3.0%		

Section B

Point A

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	1.0	1	75	477.50	0.5	155.5	0	477.50	477.50	477.5	0.000	0.000
Waste 2	75	8.5	9.5	712.5	833.75	5.25	150.8	0	833.75	833.75	833.8	0.000	0.000
Waste 3	75	8.5	18	1350	1471.25	13.75	142.3	0	1471.25	1471.25	1471.3	0.000	0.000
Waste 4	85	3	21	1605	1917.50	19.5	136.5	0	1917.50	1917.50	1917.5	0.000	0.000
											Total	0.000	0.000

Existing Grade (ft)	160.0	t1 (years)	0.25	Solar Load (psf)	0
Design Subgrade EL. (ft)	160.0	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point B

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	2.0	2	150	515.00	1	155.3	0	515.00	515.00	1286.5	0.159	0.042
Waste 2	75	8.5	10.5	787.5	908.75	6.25	150.0	0	908.75	908.75	1680.3	0.454	0.177
Waste 3	75	8.5	19	1425	1546.25	14.75	141.5	0	1546.25	1546.25	2317.8	0.299	0.177
Waste 4	85	3	22	1680	1854.47	20.5	135.8	138.0288	1992.50	1854.47	2626.0	0.091	0.062
											Total	1.002	0.457

Existing Grade (ft)	160.3	t1 (years)	0.25	Solar Load (psf)	0
Design Subgrade EL. (ft)	164.7	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point C

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	2	2	150	515.00	1	155.3	0	515.00	515.00	1286.5	0.159	0.04
Waste 2	75	8.5	10.5	787.5	908.75	6.25	150.0	0	908.75	908.75	1680.3	0.454	0.18
Waste 3	75	8.5	19	1425	1546.25	14.75	141.5	0	1546.25	1546.25	2317.8	0.299	0.18
Waste 4	85	3	22	1680	1854.47	20.5	135.8	138.0288	1992.50	1854.47	2626.0	0.091	0.06
											Total	1.002	0.457

Existing Grade (ft)	161.0	t1 (years)	0.25	Solar Load (psf)	0
Design Subgrade EL. (ft)	168.0	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point D

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	8.4	8.4	630	755.00	4.2	152.1	0	755.00	755	1526.5	0.514	0.17
Waste 2	75	8.5	16.9	1267.5	1388.75	12.65	143.6	0	1388.75	1388.75	2160.3	0.326	0.18
Waste 3	75	8.5	25.4	1905	1847.66	21.15	135.1	178.5888	2026.25	1847.6612	2619.2	0.258	0.18
Waste 4	85	3	28.4	2160	1935.11	26.9	129.4	537.3888	2472.50	1935.1112	2706.6	0.087	0.06
											Total	1.185	0.590

Existing Grade (ft)	167.312	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	174	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point E

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	5.6	5.6	420	650.00	2.8	157.8	0	650.00	650	2547.3	0.664	0.12
Waste 2	75	8.5	14.1	1057.5	1178.75	9.85	150.7	0	1178.75	1178.75	3076.1	0.708	0.18
Waste 3	75	8.5	22.6	1695	1816.25	18.35	142.2	0	1816.25	1816.25	3713.6	0.528	0.18
Waste 4	85	3	25.6	1950	2166.97	24.1	136.5	95.5344	2262.50	2166.9656	4064.3	0.164	0.06
											Total	2.064	0.532

Existing Grade (ft)	164.569	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	174	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point F

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	4.2	4.239	317.925	598.96	2.1195	158.4	0	598.96	598.9625	2496.3	0.526	0.09
Waste 2	75	8.5	12.739	955.425	1076.68	8.489	152.1	0	1076.68	1076.675	2974.0	0.750	0.18
Waste 3	75	8.5	21.239	1592.925	1714.18	16.989	143.6	0	1714.18	1714.175	3611.5	0.550	0.18
Waste 4	85	3	24.239	1847.925	2149.82	22.739	137.8	10.608	2160.43	2149.817	4047.1	0.165	0.06
											Total	1.991	0.504

Existing Grade (ft)	163.2	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	174.285	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point G

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	3.4	3.398	254.85	567.43	1.699	158.9	0	567.43	567.425	2464.8	0.433	0.07
Waste 2	75	8.5	11.898	892.35	1013.60	7.648	152.9	0	1013.60	1013.6	2910.9	0.779	0.18
Waste 3	75	8.5	20.398	1529.85	1651.10	16.148	144.4	0	1651.10	1651.1	3548.4	0.565	0.18
Waste 4	85	3	23.398	1784.85	2097.35	21.898	138.7	0	2097.35	2097.35	3994.7	0.168	0.06
											Total	1.945	0.486

Existing Grade (ft)	162.573	t1 (years)	0.25	Solar Load (psf)	750
Design Subgrade EL. (ft)	174.547	t2 (years)	30		
Ground Water Elevation (ft)	138				

Point H

Material/Stratum	Unit weight of Layer (pcf)	Thickness of Layer (ft)	Depth to Bottom of Layer (ft)	Total Stress at bottom (psf)	Maximum Past Pressure	Average Depth to Center of Layer (ft)	Average Elevation of Center of Layer (ft)	Initial Pore Pressure (psf)	Initial Total Stress (psf)	Initial Effective Stress (psf)	Final Vertical EffectiveStress (psf)	Primary Settlement (ft)	Secondary Settlement (ft)
Waste 1	75	7.8	7.77	582.75	467.38	3.885	158.9	0	467.38	467.375	643.4	0.000	0.00
Waste 2	75	8.5	16.27	1220.25	1077.50	12.02	150.8	0	1077.50	1077.5	1253.5	0.000	0.00
Waste 3	75	8.5	24.77	1857.75	1715.00	20.52	142.3	0	1715.00	1715	1891.0	0.000	0.00
Waste 4	85	3	27.77	2112.75	2069.52	26.27	136.5	91.728	2161.25	2069.522	2245.5	0.000	0.00
											Total	0.000	0.000

Existing Grade (ft)	164.4	t1 (years)	0.25	Solar Load (psf)	0
Design Subgrade EL. (ft)	164.4	t2 (years)	30		
Ground Water Elevation (ft)	138				

Summary Section B

	A	B	C	D	E	F	G	H
Station (ft)	79.7	238.8	351.1	670.2	765.5	873.8	1101.7	1434.0
Proposed Grade (ft)	160.00	164.71	168.03	174.00	174.00	174.29	174.47	164.40
Post Settlement Grade (ft)	160.00	163.25	166.39	171.38	171.40	171.70	171.89	164.40
Settlement (ft)	0.00	1.46	1.64	2.62	2.60	2.58	2.58	0.00
Post Closure Gradiant	2.0%		1.6%		0.3%		-2.3%	
		2.8%		0.0%		0.1%		
Proposed Gradiant	3.0%		1.9%		0.3%		-3.0%	
		3.0%		0.0%		0.1%		

Geosyntec consultants

engineers | scientists | innovators

STORMWATER REPORT
MANCHESTER TOWNSHIP LANDFILL

Manchester Township, Ocean County, New Jersey

Prepared for

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Project JR0312

June 2023, Revised November 2024, Revised March 2025, Revised May 2025

Geosyntec consultants

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APPENDIX

Appendix A: Infiltration Testing

Appendix B: Hydrologic and Hydraulic Calculation Package

Appendix C: Operation and Maintenance Plan

ACRONYMS AND ABBREVIATIONS

N.J.A.C.	New Jersey Administrative Code
NJDEP	New Jersey Department of Environmental Protection
SWM	Stormwater Management
RMV	Regulated Motor Vehicle

Engineer of Record:

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I, Daniel H. Bourdeau, authorize that this report and the calculations presented herein were performed in accordance with the Stormwater Management Rules (N.J.A.C. 7:8).

Signature:



Date: May 22, 2025

Table 1. Pinelands Comprehensive Management Plan N.J.A.C 7:50-6.84(a)6 Cross Reference Table

Rule Number		Rule	Report Section(s) that address compliance with Rule
N.J.A.C. 7:50-6.84(a)6	ii(1)	Stormwater runoff rate and volumes shall be calculated in accordance with N.J.A.C. 7:8-5.7, except that the Rational Method for peak flow and the Modified Rational Method for hydrograph computations shall not be used.	Section 3.5 and Appendix B
	ii(2)	In calculating stormwater runoff using the NRCS methodology, the appropriate 24-hour rainfall depths as developed for the parcel by NOAA shall be utilized.	Appendix B
	iii(1)	There shall be no direct discharge of stormwater runoff from any point or nonpoint source to any wetland, wetlands transition area, or surface waterbody. Stormwater runoff shall not be directed in such a way as to increase the volume and rate of discharge into any wetland, wetlands transition area, or surface water body from that which existed prior to development of the parcel.	Section 3.5 and Appendix B
	iii(2)	To the maximum extent practical, there shall be no direct discharge of stormwater runoff onto farm fields.	N/A (no farm fields)
	iv(1)	The total runoff volume generated from the net increase in impervious surfaces by a 10-year, 24-hour storm shall be retained and infiltrated onsite.	Section 3.2 and Appendix B
	iv(5)(A)	The areal extent and amount of precipitation falling directly on or flowing over HPLAs and areas where stormwater is exposed to source material shall be minimized through the	Section 3.3.1

		use of roof covers, canopies, curbing or other physical means to the maximum extent practical.	
	iv(5)(B)	The stormwater runoff originating from HPLAs and areas where stormwater runoff is exposed to source material shall be segregated and prohibited from comingling with stormwater runoff originating from the remainder of the parcel unless it is first routed through one or more stormwater management measures required at (a)6iv(5)(C).	Section 3.3.1
	iv(5)(C)	The stormwater runoff from HPLAs and areas where stormwater runoff is exposed to source material shall incorporate stormwater management measures (can be multiple in series) designed to reduce the post-construction load of TSS by at least 90 percent in stormwater runoff generated from the water quality design storm established at N.J.A.C. 7:8-5.5(d) using one or more of the measures identified at (a)6iv(5)(C)(I) and (II).	Section 3.3.1
	iv(5)(C)(I)	Any measure designed in accordance with the New Jersey Stormwater Best Management Practices Manual to remove TSS must be constructed to ensure that the lowest point of infiltration within the measure maintains a minimum of two feet of vertical separation from the seasonal high water table.	Section 3.5, Appendix A and Appendix B
	iv(5)(C)(II)	Other measures certified by the Department of Environmental Protection, including a Media Filtration System manufactured treatment device with a minimum 80 percent removal of TSS as verified by the New Jersey Corporation for Advanced Technology.	N/A (no media filtration proposed)

	iv(5)(D)	If the potential for contamination of stormwater runoff by petroleum products exists onsite, the stormwater runoff from the HPLAs and areas where stormwater runoff is exposed to source material shall be conveyed through an oil/grease separator or other equivalent manufactured filtering device prior to being conveyed to the stormwater management measure.	Section 3.3.1
	iv(6)	Stormwater management measures shall be designed to achieve a minimum of 65 percent reduction of the postconstruction total nitrogen load from the developed site in stormwater runoff generated from the water quality design storm. The design of the site shall include green infrastructure in accordance with the BMP Manual and shall optimize nutrient removal. This may be achieved by using a singular stormwater management measure or multiple stormwater management measures in series.	Section 3.4 and Appendix B

1. INTRODUCTION

1.1 Terms of Reference

This Stormwater Report (SWR) has been prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of NextGrid Manchester Landfill, LLC of Boston, Massachusetts (Developer) for the closure and solar array development at the Manchester Landfill located in Manchester Township, Ocean County, New Jersey (Site). This SWR has been developed in accordance with the New Jersey Department of Environmental Protection (NJDEP) regulations for stormwater promulgated by New Jersey Administrative Code (N.J.A.C.) 7:8 Stormwater Rules, N.J.A.C. 13:18A-1, the Pinelands Comprehensive Management Plan (CMP) dated January 14, 1981, and updated December 4, 2023, N.J.A.C. 7:26-2A.9 (solid waste regulations), and the *Technical Manual for Sanitary Landfill Permits and Approvals*, prepared by the Bureau of Landfill and Recycling Management – Division of Solid and Hazardous Waste, dated March 1999 (1999 Technical Manual).

1.2 Site Background and Project Description

The Manchester Township Landfill (landfill) occupies approximately 30 acres within Block 116, Lot 13 in Manchester, Ocean County, New Jersey. The property and the landfill are owned by Manchester Township. The landfill is surrounded by generally undeveloped forest, with New Jersey State Route 70 approximately 300 feet to the south and a residential property approximately 350 feet to the east.

Geosyntec (2023) presented a hydrogeologic framework update (Final Hydrogeologic Investigation Report) of the landfill pursuant to a request from the New Jersey Pinelands Commission regarding compliance of the proposed closure with the Pinelands CMP. The Final Hydrogeologic Investigation Report summarizes the field investigation procedures and results for evaluating the groundwater elevation, groundwater analytical testing, and surface water evaluation and presents conclusions regarding impacts to groundwater to support the proposed use of a permeable cover system to close the landfill. Based on the information in that report, the Closure Plan proposes a soil cap to close the landfill.

The Developer has executed a lease agreement with Manchester Township to close the landfill and develop a solar energy system on the landfill cover system. The Closure Plan has been prepared to include the construction and maintenance of a soil cover system.

Manchester Township has proposed the existing composting operation, public recycling facility, and deicing material storage structure (i.e., the salt shed) remain during or be returned to the landfill following closure as permanent post-closure uses. Based on pre-submission communications with NJDEP Division of Sustainable Waste Management (DSWM), the proposed post-closure uses are acceptable if the final cover system is designed and maintained to accommodate such uses.

As shown on the *Manchester Township Landfill Closure Permit Drawings*, dated March 2025 (Drawings), closure includes re-grading of the landfill, relocation of wastes within the landfill during re-grading, and installation of a permeable soil cover system. The limit of closure shown

on the Drawings was based on the results of a field investigation completed by Maser Consulting, P.A. (Maser) and presented in a January 2020 letter report (Landfill Delineation Report, Maser, 2020a).

The proposed closure includes re-grading of the Landfill, relocation of wastes encountered during re-grading, and installation of a permeable final cover system to the limits of the landfill. Per N.J.A.C. 7:26-2A.6(a), any sanitary landfill subject to the regulations pursuant to N.J.A.C. 7:26-2A.1(c), such as the Manchester Landfill, shall contain the necessary systems including a final capping system and stormwater management system. The Landfill closure requires a stormwater management system per N.J.A.C. 7:26-2A.7(g) to hydraulically isolate the sanitary landfill from surface water drainage in a controlled manner and protect the sanitary landfill from run-on and control run-off. The stormwater management system portion of the Manchester closure consists of diversion berms, culverts, sediment forebays, bioretention basins, and infiltration basins. All landfill closures, including permeable or impermeable cover systems, require stormwater and erosion control for the design of the landfill closure and long-term operation and maintenance of the landfill. To maintain the integrity of the landfill cover system, water shall be directed off of the landfill cover system in a non-erosive manner minimizing rills and gullies as required in N.J.A.C. 7:26-2A.7(i)(5). Stormwater runoff from the landfill cover system is completely retained on-Site and ultimately discharges into one of six infiltration basin that temporarily stores and infiltrates stormwater volume up to and including the projected 100-year, 24-hour design storm event.

2. EXISTING AND PROPOSED CONDITIONS

2.1 Existing Conditions

The pre-development hydrologic conditions evaluated in this SWR include the existing conditions based on an on-the-ground survey conducted in October 2021. Field observations, topographic survey, and aerial imagery were also used to characterize the existing hydrological conditions. In general, the existing Landfill area has been dormant for several years and is vegetated with grass. Undeveloped portions of the Site are considered to be covered by woods, brush, and grass. Other portions of the Site adjacent to the Landfill were previously developed and comprised of impervious cover, a composting facility, a salt storage shed, recycling drop off facility and various Manchester Township municipal facilities.

2.1.1 Topography

The existing landfill has one peak located approximately in the middle of the landfill area. Existing access roads are present throughout the landfill, with a larger existing composting area in the southwest portion of the landfill.

2.1.2 Site Soils and Geology

According to National Resource Conservation Service (NRCS) online mapping, soils beneath the former Landfill area are mapped as pits, sand and gravel (PHG), with some areas of Lakewood sand (LasB and LasC), waste substratum. These soils are well drained with very low runoff potential.

Based on site-specific investigations, native subsurface materials include white and tan fine sand, coarse sand in some intervals and little silt or clay.

There are no mapped wetlands on the landfill.

2.1.3 Hydrogeology-Site Groundwater

The hydrogeology at the Landfill is discussed in detail in a Hydrogeologic Report (Geosyntec 2023). According to the Hydrogeologic Report (Geosyntec 2023), seasonal high groundwater at the Site ranges from an elevation of 138 feet NAVD88 southwest of the landfill to 136 feet NAVD88 on the northeast perimeter of the landfill.

2.1.4 Impervious Cover

The impervious cover for the existing conditions is shown in Figure 3. Impervious cover within the Landfill boundary is limited to the asphalt pad and salt shed, and two small, paved sections of the access roads within Drainage Areas 2 and Drainage Area 3.

The following access roads and areas are considered “dirt” and are therefore not considered impervious cover:

- An access path from the southwest to the northeast bisecting the Landfill. The access path surface consists of cleared or unvegetated cover soils (i.e., dirt).

- An existing composting area.
- An existing material storage area and millings stockpile area located at approximately the center of the landfill.

It should be noted that much of the existing impervious cover (i.e., small paved sections of access paths, asphalt pad and salt shed area, etc.) were not previously approved by the Pinelands Commission. The existing impervious cover is included in the pre-development hydrology to accurately represent hydrologic conditions but is not considered as part of the water quality evaluation described below.

The existing conditions impervious cover area is 0.74 acres and does not include the dirt cover (9.54 acres).

2.1.5 Stormwater Management

Stormwater runoff from the existing landfill either infiltrates or drains via overland flow into one of two existing stormwater ponds. The stormwater ponds do not have outlets and appear to infiltrate runoff.

2.2 Proposed Conditions

The Post-Development hydrologic conditions evaluated in this stormwater report include the Landfill closure and solar array.

2.2.1 Topography

The closure of the Landfill will include regrading waste material and capping the Landfill to achieve the proposed grading plan shown on the Drawings. In general, the slopes of the Landfill will be graded at 3 percent. Elevations for the Landfill closure will range from 160 to 176 feet NAVD88. The proposed topography includes relocation of waste and placement of fill to achieve the proposed closure grades as well as a 2-foot thick, clean soil permeable cap.

2.2.2 Site Soils and Geology

The final cover system on the Landfill will consist of a permeable clean soil cover consisting of a sand/topsoil blend similar to the current surficial soil layer.

2.2.3 On-Site Infiltration Testing

In February 2023 and January 2025, Geosyntec performed soil profile pits and infiltration tests in the areas of the proposed stormwater basins (discussed in more detail in Section 3) to evaluate the soil stratigraphy and the infiltration rate of the soil stratum at the bottom of the proposed basin. The tests included a total of 17 infiltration tests performed in general accordance with the methodology presented in Subsection A6 of Chapter 12 of the New Jersey Stormwater Best Management Practices Manual. The infiltration test was selected over other infiltration tests due to its familiarity to the field team and to accommodate the sandy soils encountered.

The methodology and results of the on-site infiltration testing are presented in Appendix A.

2.2.4 Hydrogeology-Site Groundwater

The groundwater at the Site is not anticipated to be altered as result of the regrading of the existing soil cap and placement of additional fill and 2-foot-thick permeable soil cap. A groundwater mounding analysis was performed to evaluate localized impacts to groundwater from the proposed stormwater management features (described in Section 3.0). The results of the mounding analysis are presented as part of the Hydrologic and Hydraulic Calculation Package, included as Appendix B.

2.2.5 Impervious Cover

The impervious cover for the proposed condition is shown in Figure 4. Drivable impervious surface in the post-development condition includes an aggregate access road that bisects the landfill from south to north. The purpose of the access road is to service the solar array, provide access for maintenance of the clean soil cover system, and maintain accessibility to the recycling area, compost area, salt storage shed, and police firing range. Additional impervious areas include the composting area, recycling area, and the salt shed and associated asphalt pad. The proposed condition drivable impervious surface area is 0.544 acres. There is additional driving surface with a sandy cover (1.708 acres) near the firing range.

While the solar panels themselves are not considered impervious, the solar panel ballast blocks are considered impervious surface for evaluating the pre- versus post-development hydrology. This area is not included in the drivable impervious surface discussed above. The proposed solar panel ballast block area is 1.25 acres. The proposed condition impervious cover area used in the hydrology analysis is 6.705 acres, including the drivable impervious surface (not the sand area), ballast blocks, salt storage area, compost area, and recycling area. The surface area of the basins are also considered impervious to account for direct precipitation for the purposes of the stormwater analysis.

3. STORMWATER MANAGEMENT

3.1 Stormwater Management

The Landfill closure will consist of a 2-foot thick, clean soil cover vegetated with a native, drought tolerant grassland species. The clean soil cover system will be permeable and minimize the runoff volume from the cover system as compared to an impermeable geosynthetic or low permeable soil cover system. However, some increase in runoff is anticipated compared to the current condition as a result of the change in cover type (i.e., trees and brush to a maintained vegetated cover). This change in runoff will be managed through infiltration basins spaced along the perimeter of the landfill to meet the requirements of the drainage performance standards set forth in the New Jersey Solid Waste Regulations (N.J.A.C. 7:26-2A.7(g)). The infiltration basins will be located outside the limit of landfill and will be as close to the limit of landfill as possible to minimize land disturbance beyond the landfill footprint. Stormwater management necessary to support the Landfill closure consist of extended detention infiltration as there are no adjacent receiving waters or municipal separate storm sewer systems. The proposed stormwater management system is shown on the Drawings.

In general, stormwater runoff is collected in a series of diversion berms that convey runoff to infiltration basins spaced along the perimeter of the Landfill. The infiltration basins are sized to completely store the runoff volume associated with the projected 100-year, 24-hour storm event prior to infiltration. Drainage areas that include regulated motor vehicle (RMV) surface will flow to small-scale infiltration basins preceded by a pretreatment sediment forebay and bioretention basin sized to store the water quality design storm runoff event. Drainage areas without RMV surface will flow to large-scale infiltration basins preceded by a pretreatment sediment forebay only. The hydrologic and hydraulic calculations are included as Appendix B.

Run-on is prevented as the Landfill is more elevated than the surrounding land surface.

3.2 Green Infrastructure Standards (NJAC 7:8-5.3)

The small-scale infiltration basins onsite all have contributory drainage areas less than 2.5 acres. All area subject to Stormwater Runoff Quality Standards due to an increase in RMV surface will drain to a small-scale infiltration basin, which, combined with a pretreatment sediment forebay and bioretention basin, will comply with the Green Infrastructure Standards for both runoff quantity and quality. Areas onsite with no increase in RMV surface will flow to large-scale infiltration basins, which meet the Green Infrastructure Standards for runoff quantity and are not subject to a limit on contributory drainage area.

3.3 Groundwater Recharge Standards (NJAC 7:8-5.4 and N.J.A.C. 7:50-6.84)

The Site contains a landfill that is capped and subject to a closure plan; therefore, the Site is exempt from groundwater recharge standards as stated in N.J.A.C. 7:8(3)i. The infiltration basins designed as part of the stormwater management system are located outside the limit of waste and are not within the limits of the landfill.

3.3.1 High Pollutant Loading Areas (N.J.A.C. 7:8-5.4(b)3 i and ii and N.J.A.C. 7:50-6.84(a)6iv5 et seq.)

Post-Development conditions include a relocated road salt storage area, which is identified on Drawing Number 4 of the Drawings. All road salt will be contained within an enclosed dome structure on an asphalt surface. Rainfall will not come into direct contact with road salt. The salt storage area will be located within the up-gradient portion of its subcatchment. The salt storage area will not be exposed to stormwater run-on from other areas of the landfill. Stormwater runoff from the dome of the salt shed and asphalt around the dome will flow down the slope onto the vegetated final cover system and into Basin 4, which consists of a sediment forebay, bioretention cell and small-scale infiltration basin. The salt underneath the dome will not comingle with stormwater runoff as it will be completely enclosed. During the Water Quality Design Storm, stormwater runoff from the dome of the salt shed and the asphalt around the salt shed will be treated by the bioretention basin. The basin consists of a 48" soil layer with terrestrial forested-type vegetation (Detail 20 on Drawing Number 10 of the Drawings). This combination of soil depth and vegetation type results in a 90% TSS removal rate based on Chapter 9.7 of the New Jersey Stormwater Best Management Practices Manual (NJDEP 2004). No potential for contamination of stormwater runoff by petroleum products exists at the salt storage area.

3.4 Stormwater Runoff Quality Standards (NJAC 7:8-5.5)

Figure 4 shows the RMV surface for the Post-Development conditions (included in the impervious cover areas). The Pre-Development condition does not contain any RMV surface as it was not previously permitted. Table 2 compares the pre- and post-development RMV surface areas. Based on an evaluation of pre-development (0.000 acres[1]) and post-development (2.252 acres), there is a net gain of 2.252 acres of regulated motor vehicle surface. The proposed development results in an increase or one-quarter acre or more of RMV surface; therefore, the stormwater runoff quality standards are applicable per N.J.A.C. 7:8-5.5(a).

Table 2. Pre-Development and Post-Development RMV Surface

	Pre-Development Area	Post-Development Area	Difference
RMV Surface Area (acres)	0.00	2.252	+2.252

Furthermore, the Pinelands CMP requires for all major developments that stormwater management measures be designed to achieve a 65% reduction of the post-construction total nitrogen load from the developed site in stormwater runoff generated from the water quality design storm.

Three types of BMPs are proposed to meet this requirement. The first is using infiltration basins to capture and infiltrate stormwater runoff from the landfill including the NJDEP Water Quality Design Storm to provide 50 percent nitrogen reduction. The second is use of vegetative filter strips

[1] As the previous impervious cover was not permitted, it is not considered regulated motor vehicle surface area.

(i.e., the meadow cover) to provide an additional 30 percent nitrogen removal for Drainage Areas 1A and 2B, which do not contain RMV surface. For the remaining drainage areas, bioretention basins will be used to provide the additional nitrogen removal. The bioretention basins are designed to treat the NJDEP WQDS and provide additional 30 percent nitrogen reduction. The bioretention basins will be located between the sediment forebays and the infiltration basins; stormwater volume greater than the WQDS will be routed directly from the sediment forebays to the infiltration basins to prevent erosion and other adverse impacts to the bioretention basins.

3.5 Stormwater Runoff Quantity Standards (NJAC 7:8-5.6)

Compliance with the stormwater runoff quantity standards described at NJAC 7:8-5.6 and comparison of pre- and post-development hydrology was evaluated for three drainage areas in the existing condition and six drainage areas for the proposed condition. The hydrologic and hydraulic analysis demonstrates compliance with the runoff quality standards and is included as Appendix B. The hydrologic analysis within this package shows that the overall post-development condition peak discharges from the Landfill with proposed stormwater management features (i.e., infiltration basins) are less than the pre-development peak discharges under the current and projected 2-, 10-, and 100-year, 24-hour design storms. It should be noted that the proposed stormwater management features have been sized to completely store the runoff volume associated with the projected 100-year, 24-hour storm event prior to infiltration.

The analysis, along with the proposed stormwater features described in Section 3.4, demonstrate that the proposed landfill closure and solar development plan will not result in an increase in peak discharge rates from the Site, in accordance with the stormwater management requirements of N.J.A.C. 7:8-5.6(b)2 (N.J.A.C. 2020) and the New Jersey Sanitary Landfill Technical Manual (NJDEP 1999).

3.5.1 Calculation of Stormwater Runoff

The hydrologic model input/output analysis is included with Appendix B and describes the calculation of stormwater runoff. The pre-development and post-development conditions were modeled under the current and projected 2-year, 10-year, and 100-year, 24-hour design storms to demonstrate compliance with the New Jersey Stormwater Runoff Quantity Standards N.J.A.C. 7:8-5.6(b)2 (N.J.A.C. 2020) and with the Pinelands Comprehensive Management Plan Runoff Quantity Standards N.J.A.C. 7:50-6.84(a)6ii(1), ii(2), and iii(1).

3.5.2 Groundwater Mounding Analysis

The groundwater mounding analysis is included as part of the Hydrologic and Hydraulic Calculation Package as Appendix B and describes the groundwater mounding impacts for the infiltration basins. The estimated mounding elevation for the infiltration basins are below the bottom elevations of the basins, and there are no nearby structures affected by groundwater mounding; therefore, no negative impacts are anticipated as a result of the infiltration basins.

3.6 Maintenance Requirements

Appendix C includes the Operation and Maintenance Plan for the proposed stormwater management features at the Site. The stormwater management structures, including grass-lined and riprap-lined diversion berms, sediment forebays, bioretention basins, infiltration basins, energy dissipation aprons, and the access road culverts should be inspected at least annually for cracking, subsidence, spalling, erosion, and deterioration (NJDEP 2004). We recommend that stormwater management structures be inspected at least twice per year.

Sediment/debris removal shall take place when the stormwater management structures are dry and should not disturb the riprap or grass lining. Debris, trash, sediment, and other waste should be disposed of at a suitable disposal/recycling facility and in accordance with all applicable local, state, and federal waste regulations (NJDEP 2004). The closure system shall be maintained in accordance with the Closure Plan's operation and maintenance requirements.

The cover system vegetation and cover soils will be inspected annually to identify areas of dead or sparse vegetation, erosion, cracks, or slope movement. Repair of erosion rills and other maintenance to the slopes will be performed as necessary to ensure stable top- and side slopes. If sparse vegetation or erosion is observed during the inspection, the cover system will be repaired as soon as feasible in accordance with the design specifications. Because there is no geomembrane or specific drainage layer component of the cover system, vegetation will not be limited to any specific height, nor will the vegetation require any specific mowing schedule, other than as needed to maintain adequate performance of the solar energy system (i.e., to prevent shading of the solar panels). Specific measures and schedule for maintenance will be documented in the closure and post-closure care plan to be submitted to DSHW.

Manchester Township and the Developer will be jointly responsible for maintenance of the cover system and the stormwater management structures on the Site and for documentation of inspection and maintenance, including the development of a maintenance log sheet. Corrective or preventative maintenance and inspections should be documented, including copies of maintenance-related work orders.

4. SOIL EROSION AND SEDIMENT CONTROL

The construction of the landfill closure will require erosion and sediment controls during earth-disturbing and closure activities and development of the solar array. A Soil Erosion and Sediment Control Plan has been prepared and is included in the Drawings. Perimeter control silt fence will be installed prior to earth-disturbing activities along the limit of work of the proposed closure areas. A stabilized construction entrance will be used at construction exit to reduce the potential for track out. The Contractor will also sweep the construction exit areas to reduce the potential of track out off-Site. Temporary stabilization including mulch and erosion control blanket will be used to temporarily stabilized exposed areas and establish vegetation. Stockpiles will be located in designated material stockpile areas on-Site. Temporary perimeter controls will be installed down gradient of designated stockpile areas. Final stabilization will consist of permanent seeding of the closure areas.

5. REFERENCES

Geosyntec (2023). *Final Hydrogeologic Investigation Report, Manchester Township Landfill, Manchester Township, New Jersey.* Geosyntec Consultants, Inc., Pennington, New Jersey, February 2023.

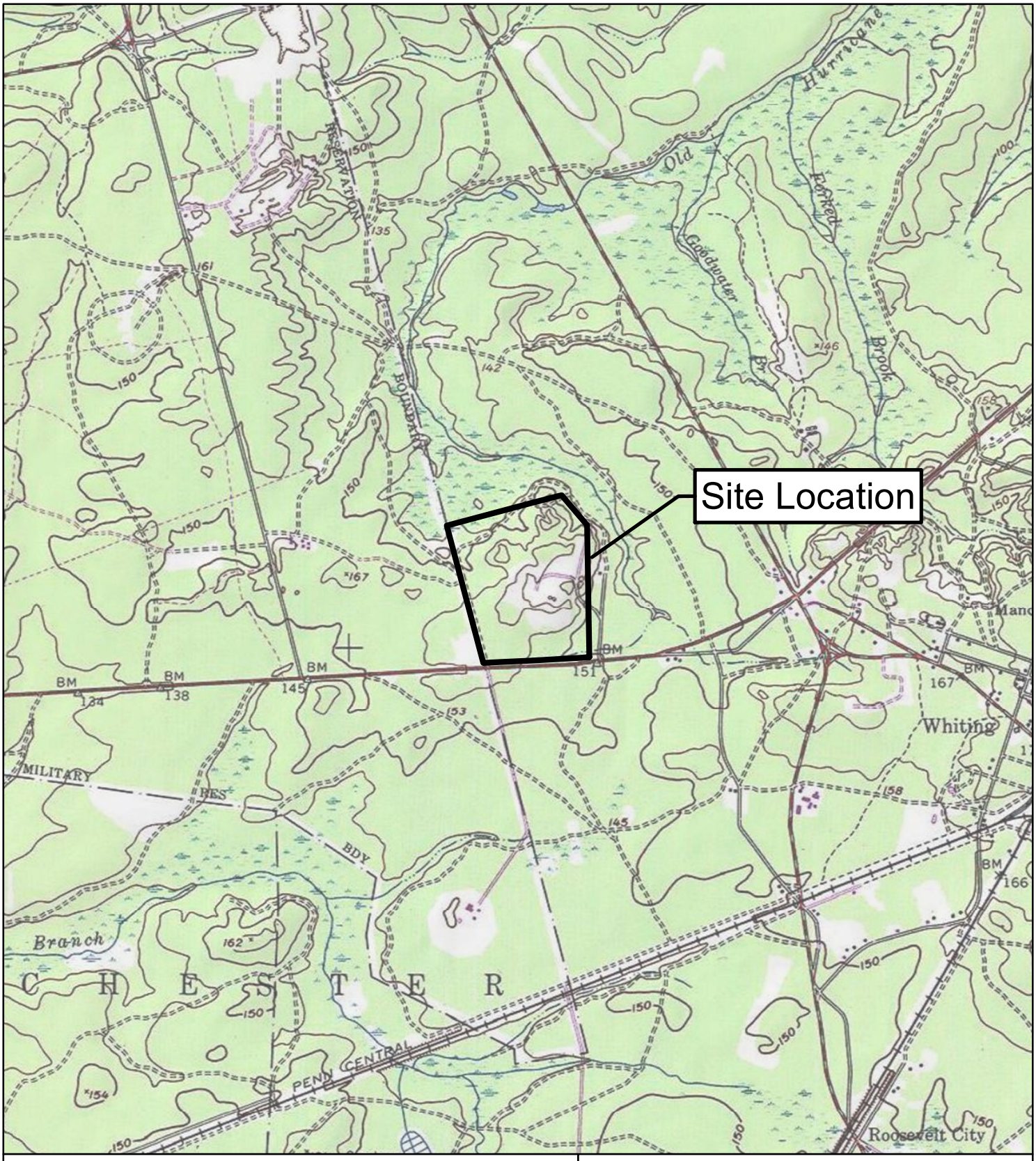
Maser (2020a). *Delineation of Landfill Boundary, Manchester Township, Ocean County, New Jersey*, Maser Consulting, Mount Laurel, New Jersey, January 2020.

N.J.A.C. (2020). *N.J.A.C. 7:8 Stormwater Management.* (March 2, 2020).

NJDEP. (1999). *Technical Manual for Sanitary Landfill Permits and Approvals*. New Jersey Department of Environmental Protection. March 1999.

NJDEP. (2004). *New Jersey Stormwater Best Management Practices Manual.* New Jersey Department of Environmental Protection. Updated July 2023.

FIGURES



Legend

Site Location

N.A.D. 1983 State Plane Coordinates (feet)
E (x): 518286.9 N(y): 410759.7



N

0 2,000 Feet

USGS Topographic Quadrangle:
-Whiting, NJ. 39074-H4

Site Location Map

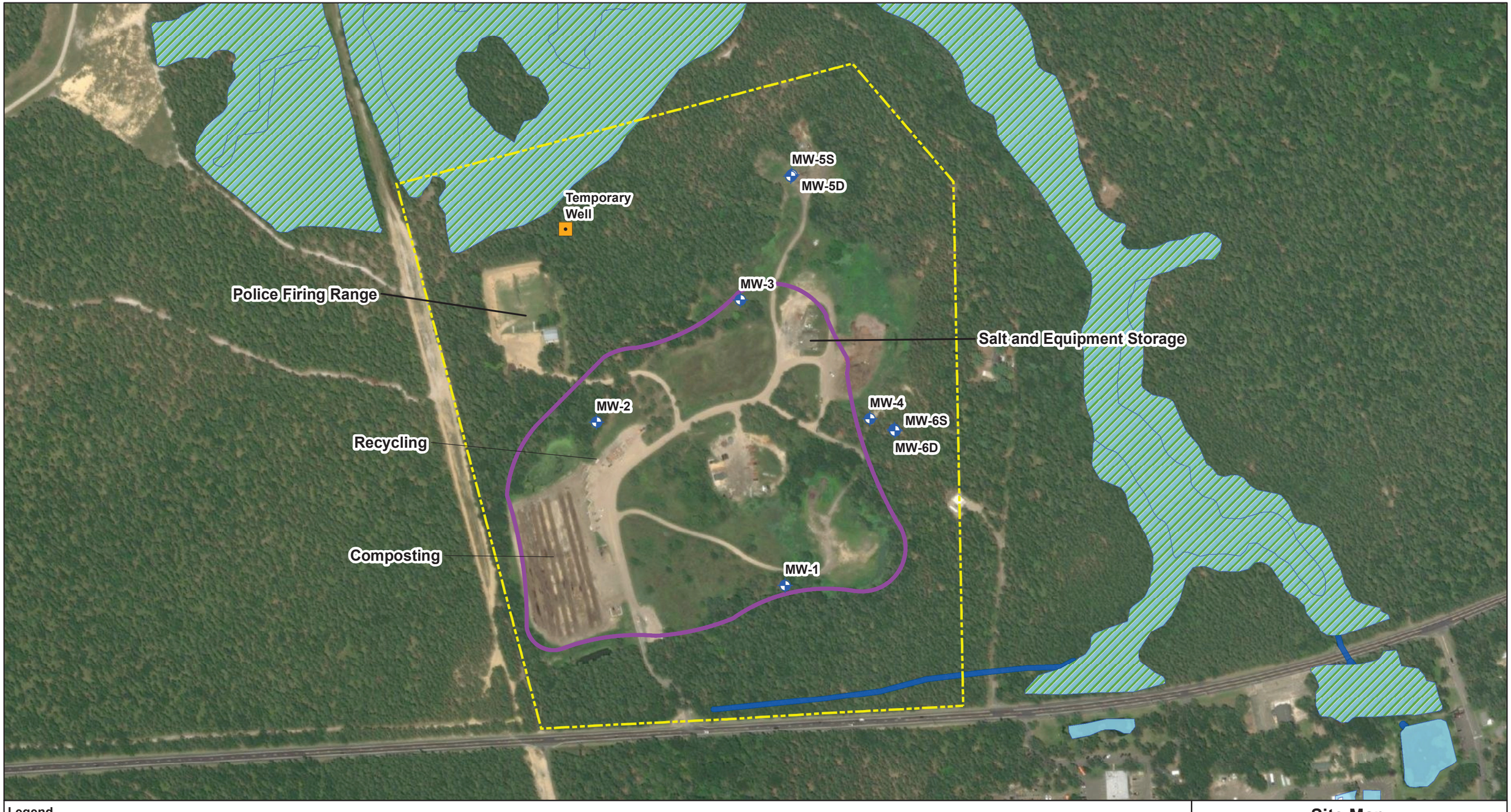
Manchester Township Landfill
110 Sam Pitts Road
Manchester Township, New Jersey

Geosyntec consultants

Pennington, NJ | November 2022

Figure 1

\\Philly-01\Data\GIS\GISprojects\JR0312 - Manchester Landfill\Projects\Permitting\Fig_01-Site Location Map_Topo.mxd 11/7/2022 3:58:01 PM



Legend

- Monitoring Well
- Temporary Well (Installed December 12, 2022)
- Site Parcel
- Interpreted Landfill Deposits Boundary
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

Notes:
1. Site Parcel Source: Ocean County, NJ/NJ OpenData
   Interpreted Landfill Deposits Boundary: Maser 2020 Site Hydrogeologic Investigation Report
2. Welands and Water Features: US Fish and Wildlife Service/NWI

N

0 350 Feet

Site Map

Manchester Township Landfill
110 Sam Pitts Road
Manchester Township, New Jersey

Geosyntec consultants

Pennington, NJ | February 2023

Figure 2

\\Philly-01\Data\GIS\GISprojects\JR0312 - Manchester Landfill\Projects\Site_Map.mxd 1/31/2023 9:09:22 PM



LEGEND

- PROPERTY LINE
- INTERPRETED LIMIT OF WASTE
- EXISTING MAJOR CONTOUR (5 FT)
- EXISTING MINOR CONTOUR (1 FT)
- SPOT ELEVATION
- GRAVEL DRIVE / ROAD
- ASPHALT
- CONCRETE PAD
- EQUIPMENT / STOCKPILE
- LIGHT POLE
- BOLLARD
- OVERHEAD POWER
- UTILITY POLE
- TREELINE
- WETLAND
- POND
- MW-04 MONITORING WELL
- GROUNDWATER CONTOUR
- TREE
- RETAINING WALL
- FENCE
- SIGN
- IMPERVIOUS
- REGULATED MOTOR VEHICLE SURFACE (RMVS) IMPERVIOUS
- EXISTING STORMWATER BASIN

NOTES

1. EXISTING TOPOGRAPHY, PLANIMETRIC FEATURES, AND PROPERTY LINES TAKEN FROM ELECTRONIC FILE TITLED 'MANCHESTER_BLOCK 116 LOT 13.DWG' PROVIDED BY COLLIERS ENGINEERING & DESIGN OF RED BANK, NEW JERSEY (COLLIERS) ON 15 OCTOBER 2021.
2. VERTICAL SITE DATUM IS IN FEET NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). HORIZONTAL DATUM IS NORTH AMERICAN DATUM 1983 (NAD 83) NEW JERSEY STATE PLANE.
3. LANDFILL BOUNDARY AND MONITORING WELL LOCATIONS FROM ELECTRONIC FILE PROVIDED BY COLLIERS ON 26 OCTOBER 2021.
4. UTILITY TYPES AND LOCATIONS SHOWN ARE FOR REFERENCE ONLY. CONTACT NEW JERSEY ONE CALL FOR A UTILITY MARKOUT PRIOR TO INITIATING EARTH DISTURBING ACTIVITIES. CONFIRM AND FIELD-LOCATE ALL UTILITIES.
5. REFER TO INDIVIDUAL DRAWINGS FOR DRAWING-SPECIFIC NOTES AND LEGENDS.
6. EXISTING CONDITIONS MAY DIFFER FROM THAT SHOWN DUE TO SITE OPERATION ACTIVITIES PERFORMED AFTER THE DATE OF THE SURVEY.

FOR REVIEW PURPOSES ONLY
DESIGN DRAWINGS - NOT FOR CONSTRUCTION

(3in)
(2in)
(1in)
(1in) (2in) (3in) (4in)
SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDERING OR CONSTRUCTION, UNLESS SIGNED.

THOMAS E. RAMSEY
NJ PE #GE49035600
DATE

DESIGN BY:	MN
DRAWN BY:	MAF
CHECKED BY:	TBR
REVIEWED BY:	MN
APPROVED BY:	TBR

Geosyntec consultants
1750 AMERICAN BLVD SUITE 200,
PENNINGTON, NEW JERSEY 08534 USA

TITLE: PRE-DEVELOPMENT HYDROLOGIC CONDITIONS

PROJECT: LANDFILL CLOSURE DESIGN

SITE: MANCHESTER TOWNSHIP LANDFILL
BAYVILLE, NEW JERSEY

DATE: JUNE 2023
PROJECT NO.: JR0312.04
FILE: JR0312.04-C-FIG2

C:_GEOPW\GIS\1\DMS19021\JR0312.04-C-FIG2.DWG Last Edited by: MFalcico on 6/13/23

C:_geopw\gis\1\dms\19021\JR0312.04-C-FIG2.dwg

NOTES:

1. EXISTING MATERIAL STOCKPILES ON LANDFILL TO BE REMOVED TO ESTABLISH A RELATIVELY UNIFORM GRADES INTO WHICH THE FINAL COVER SYSTEM MAY BE TIED. EQUIPMENT OWNED BY MANCHESTER TOWNSHIP WILL BE REMOVED BY MANCHESTER TOWNSHIP PRIOR TO THE WORK.
2. MATCH ACCESS ROAD TO EXISTING GRADE OUTSIDE THE LANDFILL BOUNDARY AT A SLOPE NO GREATER THAN 10 PERCENT.
3. PASSIVE AND INDUCED DRAFT LANDFILL GAS VENTS TO BE INSTALLED TO THE BOTTOM OF WASTE OR GROUNDWATER TABLE, WHICHEVER IS HIGHER. ACTUAL INSTALLATION DEPTHS TO BE SELECTED DURING PREPARATION OF CLOSURE CONSTRUCTION DOCUMENTS.
4. FINAL EXTENTS OF THE COMPOSTING AND RECYCLING AREAS WILL BE DETERMINED BY MANCHESTER TOWNSHIP PRIOR TO CONSTRUCTION. FINAL COVER SYSTEM IN THE COMPOSTING AND RECYCLING OPERATIONS AREAS WILL BE A MINIMUM THICKNESS OF THREE FEET OF COMPACTED SOIL (DETAIL 2 ON DRAWING 7).
5. SECURITY BOOTH AND SURROUNDING ASPHALT PAVEMENTS WILL REMAIN DURING CLOSURE CONSTRUCTION AND POST-CLOSURE OPERATION. FINAL COVER SYSTEM WILL BE MATCHED TO THE EXISTING ELEVATIONS AT THE EDGE OF THE ASPHALT PAVEMENT.
6. EXISTING LIDAR TOPOGRAPHY DATA FROM USGS LIDAR POINT CLOUD DATA PUBLISHED 11 SEPTEMBER 2014 WITH METADATA UPDATED 12 APRIL 2023 FROM USGS NATIONAL MAP DATA DELIVERY, GIS DATA DOWNLOAD, RECEIVED 31 OCTOBER 2024.
7. INTERPRETED LIMIT OF WASTE BASED ON RESULTS OF PRE-DESIGN INVESTIGATION. TO THE EXTENT ALLOWABLE DURING CONSTRUCTION, DEVELOPED AREAS BETWEEN INTERPRETED LIMIT OF WASTE AND LANDFILL FINAL COVER SYSTEM WILL REMAIN WITH ANY DISTURBED AREAS BEING RESTORED TO PROVIDE EQUAL OR BETTER WASTE COVER AND STORMWATER DRAINAGE THAN PRE-CONSTRUCTION CONDITIONS.
8. INTERPRETED LIMIT OF WASTE BASED ON RESULTS OF PRE-DESIGN INVESTIGATION. WASTE ENCOUNTERED DURING THE EXCAVATION OF THE BORROW AREA WILL BE RELOCATED UNDER THE FINAL COVER SYSTEM. WASTE WILL BE IDENTIFIED BASED ON VISUAL OBSERVATIONS.
9. RIPRAP LINING SHALL BE INSTALLED A MINIMUM OF 10 FEET UPSTREAM AND DOWNSTREAM OF THE BENDS IN DIVERSION BERMS.

N

0 100 200

SCALE IN FEET

LEGEND

- PROPERTY LINE
- INTERPRETED LIMIT OF WASTE
- 50 EXISTING MAJOR CONTOUR (5 FT)
- EXISTING MINOR CONTOUR (1 FT)
- SPOT ELEVATION
- GRAVEL DRIVE / ROAD
- ASPHALT
- CONCRETE PAD
- LIGHT POLE
- BOLLARD
- OHP OVERHEAD POWER
- UTILITY POLE
- TREELINE
- WETLAND
- POND
- MW-04 MONITORING WELL
- GROUNDWATER CONTOUR
- TREE
- SIGN
- 50 PROPOSED CONTOUR
- APPROXIMATE LANDFILL BOUNDARY
- AGGREGATE FINAL COVER BOUNDARY
- GV-04 INDUCED DRAFT GAS VENT
- GV-26 PASSIVE GAS VENT
- AGGREGATE ROAD AND AGGREGATE FINAL COVER SYSTEM
- CULVERT
- DRAINAGE STRUCTURE
- D VEGETATED DIVERSION BERM (9/8)
- SD RIPRAP DIVERSION BERM (10/8)
- DB BERM (15/9)
- PUBLIC RECYCLING AREA
- BASIN SPILLWAY
- SEDIMENT FOREBAY SPILLWAY

FOR REVIEW PURPOSES ONLY
DESIGN DRAWINGS - NOT FOR CONSTRUCTION

(1in) (2in) (3in) (4in)

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDERING OR CONSTRUCTION, UNLESS SEALED.

THOMAS E. RAMSEY
NJ PE #GE48400600 DATE

DESIGN BY: MNJ/KDH/B	DRAWN BY: MAF	CHECKED BY: TBR	REVIEWED BY: MNJ/DHB	APPROVED BY: TBR

Geosyntec consultants
1750 AMERICAN BLVD SUITE 200
PENNINGTON, NEW JERSEY 08534 USA

TITLE: POST-DEVELOPMENT HYDROLOGIC CONDITIONS

PROJECT: LANDFILL CLOSURE DESIGN

SITE: MANCHESTER TOWNSHIP LANDFILL
MANCHESTER TOWNSHIP, NEW JERSEY

DATE: NOVEMBER 2024
PROJECT NO.: JR0312.04
FILE: JR0312.04 - C04

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Last Saved by: MFarkas on 11/19/24

APPENDIX A
INFILTRATION TESTING

Appendix A.1
Test Location Plan

Test Pit Location Map

FOR REVIEW PURPOSES ONLY
DESIGN DRAWINGS - NOT FOR CONSTRUCTION

NOTES:

1. EXISTING MATERIAL STOCKPILES ON LANDFILL TO BE REMOVED TO ESTABLISH A RELATIVELY UNIFORM GRADES INTO WHICH THE FINAL COVER SYSTEM MAY BE TIED. EQUIPMENT OWNED BY MANCHESTER TOWNSHIP WILL BE REMOVED BY MANCHESTER TOWNSHIP PRIOR TO THE WORK.
2. MATCH ACCESS ROAD TO EXISTING GRADE OUTSIDE THE LANDFILL BOUNDARY AT A SLOPE NO GREATER THAN 10 PERCENT.
3. PASSIVE AND INDUCED DRAFT LANDFILL GAS VENTS TO BE INSTALLED TO THE BOTTOM OF WASTE OR GROUNDWATER TABLE, WHICHEVER IS HIGHER. ACTUAL INSTALLATION DEPTHS TO BE SELECTED DURING PREPARATION OF CLOSURE CONSTRUCTION DOCUMENTS.
4. FINAL EXTENTS OF THE COMPOSTING AND RECYCLING AREAS WILL BE DETERMINED BY MANCHESTER TOWNSHIP PRIOR TO CONSTRUCTION. FINAL COVER SYSTEM IN THE COMPOSTING AND RECYCLING OPERATIONS AREAS WILL BE A MINIMUM THICKNESS OF THREE FEET OF COMPACTED SOIL AND AGGREGATE (DETAIL 2 ON DRAWING 7).
5. SECURITY BOOTH AND SURROUNDING ASPHALT PAVEMENTS WILL REMAIN DURING CLOSURE CONSTRUCTION AND POST-CLOSURE OPERATION. FINAL COVER SYSTEM WILL BE MATCHED TO THE EXISTING ELEVATIONS AT THE EDGE OF THE ASPHALT PAVEMENT.
6. EXISTING LIDAR TOPOGRAPHY DATA FROM USGS LIDAR POINT CLOUD DATA PUBLISHED 11 SEPTEMBER 2014 WITH METADATA UPDATED 12 APRIL 2023 FROM USGS NATIONAL MAP DATA DELIVERY, GIS DATA DOWNLOAD, RECEIVED 31 OCTOBER 2024.
7. INTERPRETED LIMIT OF WASTE BASED ON RESULTS OF PRE-DESIGN INVESTIGATION. WASTE ENCOUNTERED DURING THE EXCAVATION OUTSIDE THE INTERPRETED LIMIT OF WASTE WILL BE RELOCATED UNDER THE FINAL COVER SYSTEM. WHERE COMPLETE WASTE REMOVAL IS NOT FEASIBLE, REMAINING WASTE SHALL, AT THE DISCRETION OF THE ENGINEER AND NJDEP, BE LEFT IN PLACE AND CAPPED WITH A MINIMUM OF 2 FEET OF CLEAN SOIL. WASTE WILL BE IDENTIFIED BASED ON VISUAL OBSERVATIONS.
8. RIPRAP LINING SHALL BE INSTALLED A MINIMUM OF 10 FEET UPSTREAM AND DOWNSTREAM OF THE BENDS IN DIVERSION BERMS.
9. DESIGN OF THE SALT SHED ASPHALT PAVEMENT AND STORMWATER CONTROLS TO BE PREPARED SEPARATELY BY MANCHESTER TOWNSHIP.

0 100 200
SCALE IN FEET

LEGEND

- PROPERTY LINE
- INTERPRETED LIMIT OF WASTE
- EXISTING MAJOR CONTOUR (5 FT)
- EXISTING MINOR CONTOUR (1 FT)
- SPOT ELEVATION
- GRAVEL DRIVE / ROAD
- ASPHALT
- CONCRETE PAD
- LIGHT POLE
- BOLLARD
- OVERHEAD POWER
- UTILITY POLE
- TREELINE
- WETLAND
- POND
- MW-04 MONITORING WELL
- GROUNDWATER CONTOUR
- TREE
- SIGN
- 50 PROPOSED CONTOUR
- APPROXIMATE LANDFILL BOUNDARY
- AGGREGATE FINAL COVER BOUNDARY
- GV-04 INDUCED DRAFT GAS VENT
- GV-26 PASSIVE GAS VENT
- AGGREGATE ROAD AND AGGREGATE FINAL COVER SYSTEM
- CULVERT
- DRAINAGE STRUCTURE
- D VEGETATED DIVERSION BERM (9/8)
- SD RIPRAP DIVERSION BERM (10/8)
- BERM (18/9)
- PUBLIC RECYCLING AREA
- BASIN SPILLWAY
- SEDIMENT FOREBAY SPILLWAY
- S FUTURE SOLAR ARRAY AREA BOUNDARY

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.
THOMAS E. RAMSEY NJ PE #GE49500600
DATE

DESIGN BY: MNJ/KDH/B	DRAWN BY: MAF	CHECKED BY: TBR	REVIEWED BY: MNJ/DHB	APPROVED BY: TBR

Geosyntec consultants
1750 AMERICAN BLVD SUITE 200,
PENNINGTON, NEW JERSEY 08534 USA
CERTIFICATION OF AUTHORIZATION NUMBER: N.J. CA 24GA28018500

TITLE: PROPOSED SITE PLAN
PROJECT: LANDFILL CLOSURE DESIGN
SITE: MANCHESTER TOWNSHIP LANDFILL
MANCHESTER TOWNSHIP, NEW JERSEY

DATE: MARCH 2025
PROJECT NO.: JR0312.04
FILE: JR0312.04 - C04
DRAWING NO.: 4 OF 13

REV	DATE	DESCRIPTION	DRN	APP

(1in) (2in) (3in) (4in)
SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

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Last Edited By: MFerraro on 6/7/2025

Appendix A.2
Test Pit Logs

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0317	IT-B3-01	2-21-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Dry	Cloudy		

Depth (ft)	Description	Sketch
0'-2'	light gray, fine sand with organics 2.5Y 7/1	Starting elevation: 146'
2'-9'	light yellow/tan fine sand 5Y 7/4	Bottom elevation: 134'
9'-12'	orange/brown fine sand 10YR 6/8	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Tech	JR0312	TT-B3-02	2-21-23
Equipment	**Logged By**	**Location**		
Kubota KX040	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**	**Surface Elevation**	
Dry	Cloudy			

Depth (ft)	Description	Sketch
0'-3'	Light gray, fine sand with organics 2.5Y 7/1	Starting elevation 145'
3'-8'	Light yellowish fine sand 5Y 7/6	Bottom elevation 133'
8'-12'	orange brown fine sand 10YR 6/8	
Note:	No ground water	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	~~Geosyntec / Enviro-Tech~~	TR0312	IT-R1-03	2-21-23
Equipment	**Logged By**	**Location**		
~~Kubota KX040~~	~~Brian Harris~~	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
~~Dry~~	~~Sunny~~			

Depth (ft)	Description	Sketch
0'-2'	Light gray fine sand w/ organics — 2.5Y 7/1	Starting elevation: 156.5'
2'-5.5'	~~Light~~ Dark brown fine sand — 10YR 4/6	Bottom elevation: 144.5'
5.5'-11'	~~Dark~~ Light brown fine sand — 5YR 7/3	
11'-12'	Dark brown fine sand — 5YR 6/8	
	* no ground water	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-B1-04	2-21-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Dry	Sunny		

Depth (ft)	Description	Sketch
0'-1.5'	Light gray fine sand w/ organics 2.5Y 7/1	Starting elevation: 156.5'
1.5'-8'	Light brown fine sand 10YR 4/6	Bottom elevation: 148.5'
	* lower portion of test pit caved in due to water seeping in @ 5', water ponding in bottom of pit	
	* 5' to water seeping in	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-1B-05	2-21-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Dry	Sunny		

Depth (ft)	Description	Sketch
0'-1'	Light gray fine sand with organics 2.5Y 6/1	Starting elevation: 156'
1'-11'	Yellow/tan fine sand - observed water perking in @ 5', appears to be trapped water	Bottom elevation: 144.5'
		5Y 8/4
11'-11.5'	Orange/brown fine sand - stopped @ 11.5' due to side wall caving in 5Y 7/8	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-1B-06	2-21-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Dry	Sunny		

Depth (ft)	Description	Sketch
0'-2'	Light gray fine sand with organics 2.5Y 7/1	Starting elevation: 156'
2'-5'	~~Orange/brown~~ Yellow/tan fine sand 5Y 8/4	Bottom elevation: 144'
5'-7'	Orange/brown fine sand 2.5Y 6/6	
7'-11'	Yellow/tan fine sand 5Y 8/4	
11'-12'	Orange/brown fine sand 2.5Y 6/4	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-1A-07	2-23-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Damp	Cloudy		

Depth (ft)	Description	Sketch
0'-.25'	Dark brown fine sand w/ organics 2.5Y 6/2	Starting elevation: 162'
.25'-2'	Light brown / grayish fine sand 5Y 5/2	Bottom elevation: 150'
2'-6'	Tan fine sand 5Y 6/4 * water observed seeping into the test pit on the north side 3' bgs	
6'-12'	Mix of light tan and yellow/brown fine sand w/ minimal amount of clay clumps 5Y 6/3	
	SHWT not observed	

NOTES

TEST PIT LOG

IT-1A-08

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	~~IT-2B-08~~	2-23-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

WJP

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Damp	Cloudy		

Depth (ft)	Description	Sketch
0'-.5'	Dark gray sandy gravel (road base material) 2.5Y 3/1	Starting elevation: 162'
.5'-1.5'	Gray fine sand 10YR 4/2	Bottom elevation: 150'
1.5'-2'	Medium gray fine sand 10YR 7/1	
2'-2.25'	Dark brown fine sand w/ organics 10YR 3/1	
2.25'-3.5'	Brown / tan fine sand 5Y 6/6	
3.5'-8'	Orange / tan fine sand 10YR 4/6	
8'-12'	Light tan fine sand w/ clay mixed in 5Y 8/4	
	SHWT not observed	

NOTES	

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-1A-09	2-23-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Damp	Cloudy		

Depth (ft)	Description	Sketch
0'-.5'	Dark brown fine sand w/ organics 5Y 4/2	Starting elevation: 163'
.5-1'	Tan sandy gravel 5Y 7/3	Bottom elevation: 151'
1'-6'	Light brown / tan fine sand 5Y 7/4	
6'-12'	Light tan fine sand w/ clay mixed in 5Y 7/3	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-2B-10	2-23-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Damp	Cloudy		

Depth (ft)	Description	Sketch
0'-1.5'	Gray fine sand w/ organics — 2.5Y 7/1	Starting elevation: 159'
1.5'-4'	Light tan fine sand — 5Y 8/4	Bottom elevation: 147'
4'-12'	Yellow/tan fine sand w/ some clay chunks — 5Y 7/6	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec/Enviro-Ace	JR0312	TT-2B-11	2-22-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Damp	Cloudy - Light rain		

Depth (ft)	Description	Sketch
0'-1'	Gray fine sand w/ organics 2.5Y 4/1	Starting elevation: 159'
1'-12'	Yellow / tan fine sand w/ small amount of clay chunks	Bottom Elevation: 147'
		5Y 7/4
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-2B-12	2-22-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Damp	Cloudy - Light rain		

Depth (ft)	Description	Sketch
0'-1.5'	Gray fine sand w/ organics	2.5Y 4/1
1.5'-12'	Yellow/tan fine sand w/ small amount of clay chunks	5Y 7/4
	* small puddle of water observed in floor of the test pit hole approximately 30 minutes after it was dug.	Starting elevation: 162' Bottom elevation: 150'
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-AZ-13	2-22-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Damp	Cloudy		

Depth (ft)	Description	Sketch
0'-1'	Gray fine sand w/ organics 5Y 4/1	Starting elevation: 170'
1'-11'	Yellow/tan fine sand 5Y 6/4	Bottom elevation: 158'
11'-12'	Light brown fine sand 5Y 5/3	
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Ag	JR0312	IT-A2-14	2-22-23

Equipment	Logged By	Location	
Kubota KX040	Brian Harris	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Damp	Cloudy		

Depth (ft)	Description	Sketch
0'-1.5'	Gray fine sand w/ organics 5Y 6/4	Starting elevation: 170'
1.5'-12'	Yellow / tan fine sand 5Y 6/3	Bottom elevation: 158'
	SHWT not observed	

NOTES

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
	Geosyntec / Enviro-Air	JR0312	IT-A2-15	2-22-23
Equipment	**Logged By**	**Location**		
Kubota KX040	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Damp	Cloudy			

Depth (ft)	Description	Sketch
0'-1'	Gray course sand w/ organics 5Y 7/1	Starting elevation: : 170'
1'-12'	Light brown course sand (¼"-½" round stones mixed in)	Bottom elevation: 158'
		5Y 6/6
	SHWT not observed	

NOTES	

Appendix A.3
Infiltration Test Logs

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-B3-01	2-21-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Dry	Sunny			

Depth (ft)	Description	Sketch

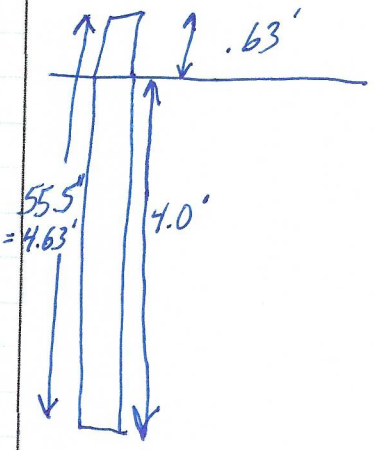
Presoak
@13:29 filled test hole w/ 12" depth
@13:30 drained completely
@13:31 re-filled test hole w/ 12" depth
Hole drained completely after 1 minute 25 seconds (< 60 min.)

Step 1 Percolation Test

Duration	Start	End	Diff.
1 min 14 sec	4.05'	4.63'	.58'
1 min 26 sec	4.05'	4.63'	.58'
1 min 32 sec	4.05'	4.63'	.58'
1 min 45 sec	4.05'	4.63'	.58'

Step 2

Duration	Start	End	Diff.
1 min ~~30~~ 24 sec	4.05'	~~4.55~~ 4.55'	~~.50~~ .50'



NOTES

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-B3-02	2-21-23
Equipment	**Logged By**	**Location**		
post hole digger	Chulwoo	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Dry	Sunny			

Depth (ft) | **Description** | **Sketch**

Presoak

@ 11:59 filled test hole w/ 12" depth
@ 12:01 Drained completely
@ 12:02 Refill hole to depth of 12"
Hole drained completely after 2 min. 40 sec. (<< 60 min.)

Percolation Test

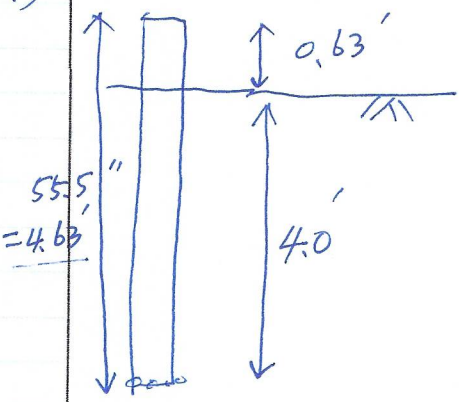
4.63' − 7"(0.58') = 4.05'
4.63' − 6"(0.5') = 4.13'

Step 1

Duration	Start	End	Diff
3 min. 11 sec *1 ~~5 min~~	4.05'	4.63'	0.58'
3 min 30 sec.	4.13' *2	4.63'	0.50'
3 min 42 sec.	4.13'	4.63'	0.50'
3 min 26 sec.	4.13'	4.63'	0.50'

Step 2

Duration	Start	end	diff:
3 min. ~~5 sec~~ 3 sec	4.05'	~~4.63~~ 4.55'	~~0.58~~ 0.50'



*1 7" water completely drained less than 5 min.
*2 Back to 6" water at bottom & observe complete drain @ bottom

NOTES

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-1B-03	2-24-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris / C. King	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Damp	Sunny			

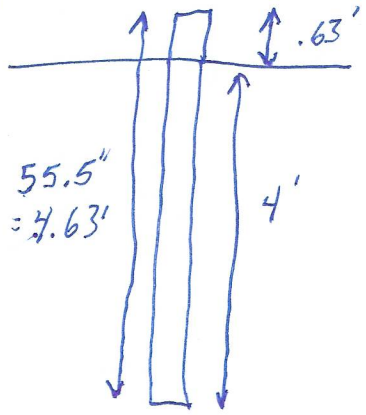
Depth (ft)	Description	Sketch
	Presoak @ 08:15 filled test hole w/ 12" depth @ 09:05 drained completely (50 min.) @ 09:08 Refilled the hole to 12" depth Hole drained completely after 54 min (<< 60 min.)	4.5'

Percolation 4.63' − 0.58' (7") = 4.05'

Duration	Start	End	Diff.	
5 min.	4:00	4:13	0.13'	
5 min.	4:00	4:15	0.15'	
5 min.	4:00	4:09	0.09'	
5 min.	4:00	4:10	0.10'	0.02'
5 min.	4:00	4:08	0.08'	
5 min.	4:00	4:09	0.09'	

Step two	Start	End	Time
~~5 min.~~	4:00	4:50	38 min. 26 sec

PERC test completed @ 11:25



NOTES

TEST PIT LOG - Percolation Test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec / Enviro-Acc	JR0312	IT-1B-04	3-23-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Damp	Cloudy			

Depth (ft)	Description	Sketch

Presoak

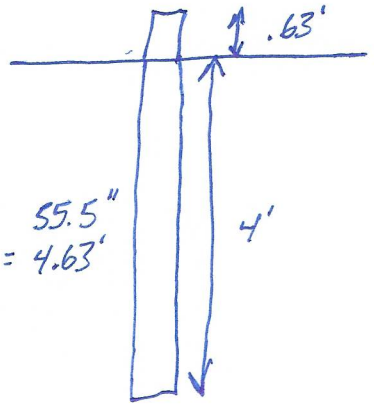
@ 11:24 filled test hole w/ 12" depth
@ 11:26 completely drained
@ 11:31 re-filled hole to depth 12"
Hole drained completely after
3 min 12 sec (< 60 min)

Step 1 Percolation Test

Duration	Start	End	Diff.
3 min 2 sec	4.05'	~~4~~.63'	.58'
3 min 10 sec	4.05'	4.63'	.58'
2 min 59 sec	4.05'	4.63'	.58'
2 min 58 sec	4.05'	4.63'	.58

Step 2 Percolation Test

Duration	Start	End	Diff
2 min 53 sec	4.05'	~~4.63'~~	~~.58'~~
		4.55'	.50'



NOTES

TEST PIT LOG · Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-1B-05	2·23·23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Damp	Cloudy			

Depth (ft)	Description	Sketch

Pre soak

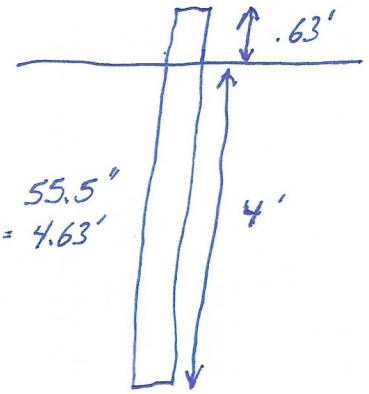
@12:14 filled test hole w/ 12" depth
@12:17 drained completely
@12:18 re-filled hole to depth 12'
hole drained completely after
4 min 24 sec (<60 min)

Step 1 Percolation Test

Duration	Start	End	Diff.
3 min 13 sec	4.05'	4.63'	.58'
3 min 24 sec	4.05'	4.63'	.58'
3 min 14 sec	4.05'	4.63'	.58'
3 min 16 sec	4.05'	4.63'	.58'

Step 2

Duration	Start	End	Diff.
2 min 58 sec	4.05'	~~4.63'~~ 4.55'	~~.58'~~ .50'



NOTES

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-1B-06	2-23-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Damp	Cloudy			

Depth (ft)	Description	Sketch

Presoak

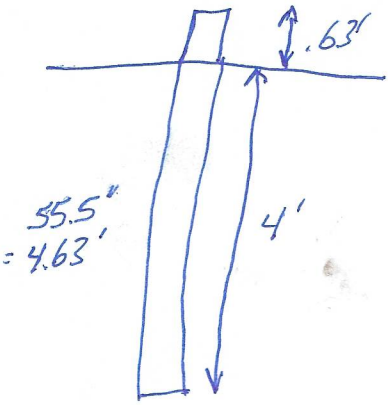
@13:04 filled test hole w/ 12" depth
@13:10 hole completely drained
@13:11 re-filled hole to depth 12"
hole completely drained after
7 min 35 sec (<60 min)

Step 1 Percolation Test

Duration	Start	End	Diff.
4 min 52 sec	4.05'	4.63'	.58'
4 min 48 sec	4.05'	4.63'	.58'
4 min 56 sec	4.05'	4.63'	.58
4 min 48 sec	4.05'	4.63'	.58'

Step 2

Duration	Start	End	Diff.
4 min 29 sec	4.05'	~~4.63'~~	.58'
		4.55'	.50'



NOTES

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-1A-08	2-24-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Dry	Sunny + Windy			

Depth (ft)	Description	Sketch

Presoak

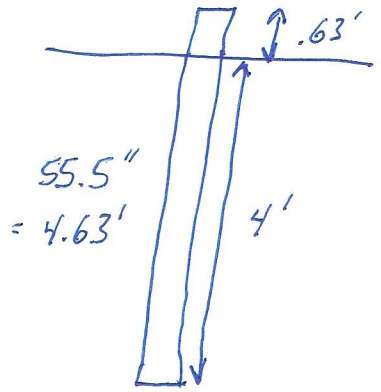
@ 13:49 filled test hole w/ 12" depth
@ 13:51 completely drained
@ 13:52 re-fill hole to 12" de
hole completely drained after
4 min 52 sec (<60 min)

Step 1 Percolation Test

Duration	Start	End	Diff.
4 min 32 sec	4.05'	4.63'	.58'
4 min 41 sec	4.05'	4.63'	.58'
4 min 47 sec	4.05'	4.63'	.58'
4 min 52 sec	4.05'	4.63'	.58'

Step 2

Duration	Start	End	Diff.
4 min 38 sec.	4.05	~~4.63'~~ 4.50'	~~.58'~~ .50'



NOTES

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-2B-10	2-24-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris / C. Lamm	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**	**Surface Elevation**	
Dry	Sunny			

Depth (ft)	Description	Sketch
	~~3.68 3.77 3.84 2.85 4.44 4.23~~ 3.77 3.78 4.29	

Presoak

@ 11:59 fill test hole w/ 12" depth
@ 12:34 drained completely
@ 12:42 re-filled hole depth 12"
completely drained after
45 min 1 sec (< 60 min)

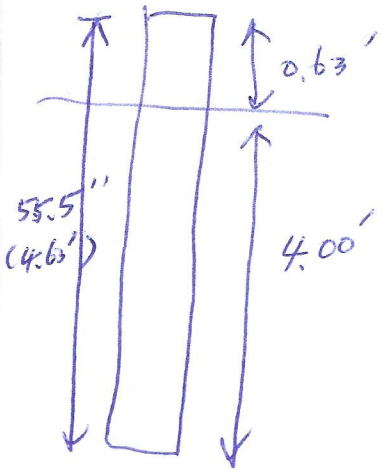
Percolation 4.63 − 0.58' = 4.05'
(7")

Duration	Start	End	Diff.	
5 min.	4.00	4.09	0.09'	
5 min.	4.00	4.07	0.07'	
5 min.	4.00	4.11	0.11'	
5 min.	4.00	4.16	0.16'	
5 min.	4.00	4.12	0.12'	
5 min.	4.00	4.06	0.06'	0.02'
5 min.	4.00	4.06	0.06'	
5 min.	4.00	4.08	0.08'	

Step Two

Start	End	Time
4.00	4.50	20 min. 43 sec

@ 14:31 perc test completed



NOTES

TEST PIT LOG — Percolation Test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-2B-11	2-22-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Damp	Cloudy			

Depth (ft)	Description	Sketch

Presoak

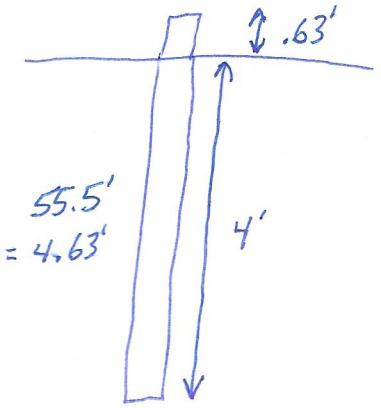
@ 12:58 fill test hole w/ 12" depth
@ 12:59 drained completely
@ 13:01 re-filled hole to depth 12"
Hole drained completely after 1 min. 37 sec (<60 min)

Step 1 Percolation Test

Duration	Start	End	Diff
1 min 37 sec	4.05'	4.63'	.58'
2 min 7 sec	4.05'	4.63'	.58'
2 min 0 sec	4.05'	4.63'	.58'
1 min 45 sec	4.05'	4.63'	.58'

Step 2

Duration	Start	End	Diff
2 min 7 sec	4.05'	4.55'	.50'



NOTES

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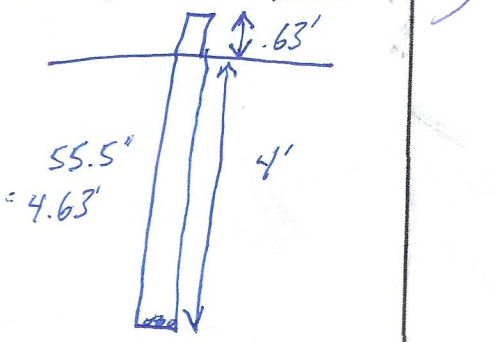
TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-2B-12	2-28-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris / C. Kim	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**	**Surface Elevation**	
Dry	~~Light rain~~ Sunny			

Depth (ft)	Description	Sketch

Presoak

11:16
@ ~~11:20~~ filled test hole w/ 12" depth
@ 12:36 still ~~not drained~~ completely after 1 hr 20 min ! (3" still more inches water inside)
@ re-filled hole to depth 12"
Hole completely drained after



Step 1 Percolation Test

Duration Start End Diff

Notes:

@ - Since 1st step for pre-soak exceeded 1 hr 20 min., perc test stopped because 2nd step for pre-soak will surely exceed 60 min. (to drain 12" water); Need to take different procedures (a, not b)

NOTES

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec	JR0312	IT-2A-13	2-24-23
Equipment	**Logged By**	**Location**		
post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Dry	Sunny			

Depth (ft)	Description	Sketch

Presoak

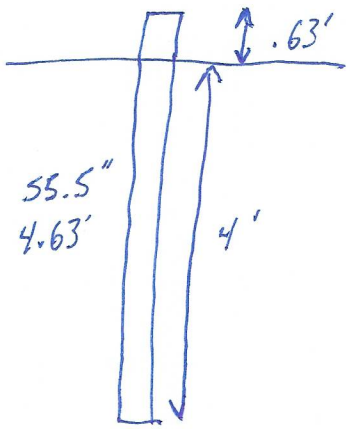
@ 0941 fill test hole w/ 12" depth
@ 0946 completely drained
@ re-fill hole to depth 12"
hole completely drained after
6 min 31 sec (< 60 min)

Step 1 Percolation Test

Duration	Start	End	Diff.
4 min 56 sec	4.05'	4.63'	.58'
4 min 53 sec	4.05'	4.63'	.58'
4 min 48 sec	4.05'	4.63'	.58
4 min 37 sec	4.05'	4.63'	.58'

Step 2

Duration	Start	End	Diff.
4 min 39 sec	4.05'	4.55'	.50'



NOTES

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TEST PIT LOG Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec / Enviro-Air	JR0312	IT-A2-13	2-22-23
Equipment	**Logged By**	**Location**		
Post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**	**Surface Elevation**	
Dry	Cloudy			

Depth (ft)	Description	Sketch

Presoak

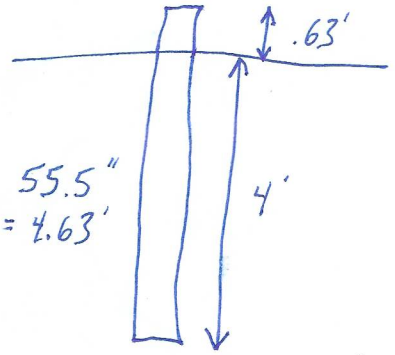
@10:42 filled test hole w/ 12" depth
@10:44 drained completely
@10:45 re-filled hole to depth of 12"
Hole drained completely after 3 min 29 sec (<60 min)

Step 1 Percolation Test

Duration	Start	End	Diff.
5 min 3 sec	4.05'	4.63'	.58'
6 min 54 sec	4.05'	4.63'	.58'
7 min 18 sec	4.05'	4.63'	.58'
7 min 35 sec	4.05'	4.63'	.58'

Step 2

Duration	Start	End	Diff
7 min 42 sec	4.05'	4.55'	.50'



Invalid

NOTES

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec / Enviro-Air	JR0312	IT-2A-14	2-22-23
Equipment	**Logged By**	**Location**		
Post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Dry	Cloudy			

Depth (ft)	Description	Sketch

Presoak

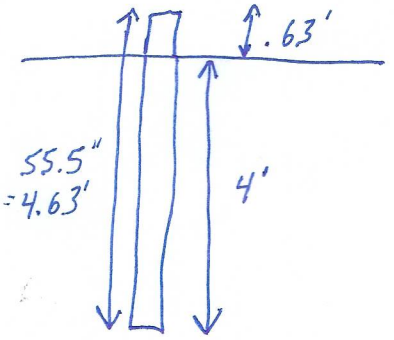
@09:38 filled test hole w/ 12" depth
@0940 drained completely
@09:41 refill hole to depth of 12"
Hole drained completely after 2 min. 21 sec. (< 60 min)

Step 1 Percolation test

Duration	Start	End	Diff.
2 min 27 sec	4.05'	4.63'	.58'
2 min 46 sec	4.05'	4.63'	.58'
2 min 50 sec	4.05'	4.63'	.58'
2 min 46 sec	4.05'	4.63'	.58'

Step 2

Duration	Start	End	Diff.
2 min 38 sec	4.05'	~~4.63'~~ 4.55	~~.58'~~ .50'



NOTES

TEST PIT LOG - Percolation test

Project Name	Contractor	Project No.	TP No.	Date
Manchester LF	Geosyntec / Enviro-Air	JR0312	IT-2A-15	2-22-23
Equipment	**Logged By**	**Location**		
Post hole digger	Brian Harris	N	E	
Surface Conditions	**Weather Conditions**	**Dimensions**		**Surface Elevation**
Dry	Partly Sunny			

Depth (ft)	Description	Sketch

Presoak

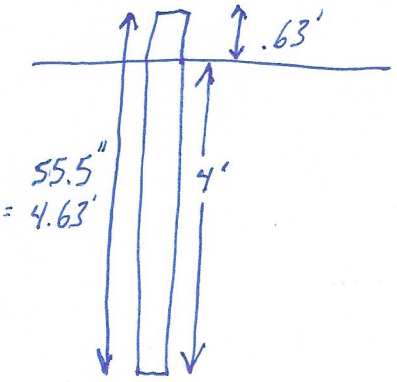
@ 08:25 filled test hole w/ 12" depth
@ 08:26 drained completely
@ 08:28 re-filled hole to depth 12"
Hole drained completely after 2 min 10 sec (< 60 min.)

Step 1 Percolation test

Duration	Start	End	Diff.
2 min 47 sec	4.05'	4.63'	.58'
2 min 24 sec	4.05'	4.63'	.58'
2 min 42 sec	4.05'	4.63'	.58'
2 min 23 sec	4.05'	4.63	.58'

Step 2

Duration	Start	End	Diff.
2 min 53 sec	4.05'	~~4.63'~~	~~.58'~~
		4.55'	.50'



NOTES

Appendix A.4
Basin 4 Test Pit and
Infiltration Test Logs

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
Manchester Landfill	EWMI	JR0312	4-03	1/23/25

Equipment	Logged By	Location	
CAT 304 mini excavator	Ed Horai	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Partial snow cover/dormant vegetation	Overcast, dry 15 °F		156 ft NAVD88

Depth (ft)	Description	Sketch
0-2	fine SAND, loose, dark grayish brown (10yr 4/2) with organics	
2-4	fine SAND, medium dense, yellowish brown (10yr 5/4)	
4-8	fine SAND, medium dense, very pale brown (10yr 7/3)	
	Surface Elevation: 156 FT NAVD88	
	Bottom Elevation: 148 FT NAVD88	
	No SHWT Observed	

NOTES	No shallow groundwater was encountered

TEST PIT LOG

Project Name	Contractor	Project No.	TP No.	Date
Manchester Landfill	EWMI	JR0312	4-04	1/23/25

Equipment	Logged By	Location	
CAT 304 mini excavator	Ed Horai	N	E

Surface Conditions	Weather Conditions	Dimensions	Surface Elevation
Partial snow cover/dormant vegetation	Overcast, dry 15 °F		156 ft NAVD88

Depth (ft)	Description	Sketch
0-2	fine SAND, loose, dark grayish brown (10yr 4/2) with organics	
2-4	fine SAND, medium dense, yellowish brown (10yr 5/4)	
4-8	fine SAND, medium dense, very pale brown (10yr 7/3)	
	Surface Elevation: 156 FT NAVD88	
	Bottom Elevation: 148 FT NAVD88	
	No SHWT Observed	

NOTES	No shallow groundwater was encountered

INFILTRATION TEST LOG

Project Name	Contractor	Project No.	TP No.	Date
Manchester Landfill	EWMI	JR0312	4-03	1/23/25

Depth (ft)	Description	Sketch
0-2	fine SAND, loose, dark grayish brown (10yr 4/2) with organics	
2-4	fine SAND, medium dense, yellowish brown (10yr 5/4)	
4-8	fine SAND, medium dense, very pale brown (10yr 7/3)	
	Surface Elevation: 156 FT NAVD88	
	Bottom Elevation: 148 FT NAVD88	
	No SHWT Observed	
	Pre-Soak:	
	Time 0 – filled test hole with 12” depth	
	Time 0:09 – drained	
	Time 0:10 – refilled test hole with 12” depth (drained less than 60 min)	
	Step 1: Percolation Test	

Duration	Start El	End El	Delta (ft)	Rate (in/hr)
0:12:00	0	0.5	0.5	30.0
0:16:00	0	0.5	0.5	22.5
0:18:00	0	0.5	0.5	20
0:22:00	0	0.5	0.5	18.5

Step 2				
0:19:30	0	0.5	0.5	18.5

NOTES	No shallow groundwater was encountered

INFILTRATION TEST LOG

Project Name	Contractor	Project No.	TP No.	Date
Manchester Landfill	EWMI	JR0312	4-04	1/23/25

Depth (ft)	Description	Sketch
0-2	fine SAND, loose, dark grayish brown (10yr 4/2) with organics	
2-4	fine SAND, medium dense, yellowish brown (10yr 5/4)	
4-8	fine SAND, medium dense, very pale brown (10yr 7/3)	
	Surface Elevation: 156 FT NAVD88	
	Bottom Elevation: 148 FT NAVD88	
	No SHWT Observed	
	Pre-Soak:	
	Time 0 – filled test hole with 12” depth	
	Time 0:03 – drained	
	Time 0:05 – refilled test hole with 12” depth (drained less than 60 min)	
	Step 1: Percolation Test	

Duration	Start El	End El	Delta (ft)	Rate (in/hr)
0:03:30	0	0.5	0.5	102.9
0:04:00	0	0.5	0.5	90.0
0:04:30	0	0.5	0.5	80.0
0:05:00	0	0.5	0.5	72.0

Step 2

0:04:30	0	0.5	0.5	80.0

NOTES	No shallow groundwater was encountered

APPENDIX B
HYDROLOGIC AND HYDRAULIC CALCULATION PACKAGE

Written by:	M. Anderson/ A. Colcord/J. Keay	Date:	11/18/2024	Reviewed by:	D. Bourdeau	Date:	11/19/2024, Revised 03/18/2025, 05/22/2025
Client:	NextGrid Manchester Township Landfill, LLC	Project:	Manchester Township Landfill	Project/ Proposal No.:	JR0312	Phase/Task No.:	04/01

Manchester Township Landfill

Landfill Closure Stormwater Management Hydrology and Hydraulics Calculation Package

PURPOSE

The purpose of this calculation package is to present the methodology, assumptions, calculations, and results of the hydrologic and hydraulic analyses associated with managing stormwater from the proposed landfill closure and solar array at the former Manchester Township landfill in Manchester Township, Ocean County, New Jersey (the Site). The Site is approximately 99 acres, and the landfill occupies approximately 30 acres of the Site. The landfill is no longer in use, but the Site is used for other municipal activities including a police shooting range, recycling, yard waste compost drop off and storage, and storage of salt and equipment. The Site is subject to the New Jersey Stormwater Management rules (N.J.A.C. 2023a), and because the Site is located within the Pinelands area, it is also subject to the Pinelands Comprehensive Management Plan (N.J.A.C. 2023b). The landfill closure stormwater management is also subject to the New Jersey Department of Environmental Protection (NJDEP) Division of Solid and Hazardous Waste rules as per N.J.A.C. 7:26 (2023c) and the New Jersey Sanitary Landfill Technical Manual (NJDEP 1999).

The proposed landfill closure and solar array including the proposed stormwater management are presented in the drawing set entitled "Landfill Closure Design, Manchester Township Landfill, Manchester Township, New Jersey," prepared by Geosyntec Consultants Inc. (Geosyntec) for NextGrid, Inc. (NextGrid) and dated November 2024.

SITE CONDITIONS

Pre-Development Condition:

The pre-development hydrologic conditions evaluated in this analysis include the existing conditions as documented in an existing conditions survey dated 15 October 2021. The existing conditions generally include an uncapped landfill with access paths and a composting area, a police shooting range, and a salt storage shed. There are also miscellaneous stockpiles of asphalt millings and debris piles on the landfill. The undeveloped portions of the existing landfill are covered by grass as determined by visual observations and aerial imagery. Elevations at the site range from approximately 143 to 173 feet North American Vertical Datum 1988 (NAVD88). Groundwater at the Site generally flows from southwest to northeast and ranges in elevation from 135 to 137 feet NAVD88. The remainder of the Site not covered by landfill or other land uses is primarily forested. Stormwater runoff from the landfill generally drains

via overland flow. Runoff from the composting area drains to one of two existing stormwater management ponds. Runoff from the remainder of the landfill and other land uses generally drains via overland flow into the adjacent undeveloped portions of the Site and primarily infiltrates.

Post-Development Condition:

The post-development hydrologic conditions evaluated in this stormwater report include the completed cap and closure of the landfill, relocation of the salt storage area, and reconfiguration and removal of gravel access road segments. Following closure of the landfill, NextGrid plans to install a ballast block-mounted solar array system on top of the final cover system. The post-development condition includes a capped vegetated (grassed) landfill with pervious clean soil cover, a composting facility with impervious coarse aggregate cover, an impervious salt storage area, access roads, and access paths. The police shooting range will remain in the post-development condition. The stormwater management features were designed for runoff from these land uses as well as the future solar array that will be designed on top of the final cover system. The post-development stormwater management system designed for the landfill closure consists of a series of diversion berms that collect and convey stormwater runoff from the closure into six spatially distributed stormwater best management practices (BMPs). The BMPs each consist of a sediment forebay and infiltration basin. BMPs whose contributing drainage area includes regulated motor vehicle surfaces were designed with an additional bioretention basin.

DESIGN CRITERIA

The criteria for the design of the permanent stormwater management features presented in this calculation package represent the most conservative criteria identified from the various resources evaluated. These resources included but were not limited to: New Jersey Administrative Code (N.J.A.C.) 7:8 Stormwater Management (N.J.A.C. 2023a); Pinelands Comprehensive Management Plan (N.J.A.C. 2023b); New Jersey Department of Agriculture (NJDA) Standards for Soil Erosion and Sediment Control in New Jersey (NJDA Standards) (NJDA 2017); NJDEP Technical Manual for Sanitary Landfill Permits and Approvals (NJDEP 1999); NJDEP Stormwater Best Management Practices Manual (NJDEP 2023); Federal Highway Administration (FHWA) Hydraulic Design Series No. 15 Design of Roadside Channels with Flexible Linings (FHWA 2005), Hydraulic Design Series No. 4 Introduction to Highway Hydraulics (FHWA 2008), Hydraulic Design Series No. 5 Hydraulic Design of Highway Culverts (FHWA 2012); Pennsylvania Department of Environmental Protection (PADEP) Erosion and Sedimentation Control Manual (PADEP 2003); and National Resources Conservation Service (NRCS) Riprap Design Methods (NRCS 2003).

The specific design criteria considered for the proposed stormwater management system and individual stormwater management features are presented below. The design criteria exceed the design requirements in the resources evaluated but were used as an additional factor of safety for the long-term operations and

maintenance at the Site.

Pre-development verse Post-development Site Runoff:

The Site hydrologic conditions were modeled under the 2-year, 10-year, and 100-year, 24-hour current and projected design storms to demonstrate compliance with the New Jersey Stormwater runoff quantity standards N.J.A.C. 7:8-5.6(b)2 (N.J.A.C. 2023a). The New Jersey Stormwater runoff quantity standards require that the hydrologic and hydraulic analysis demonstrate that there is no increase, as compared to the pre-construction condition, in the peak runoff rates of stormwater leaving the site for the 2-, 10-, and 100-year current and projected storm events, as defined and determined pursuant to N.J.A.C. 7:8-5.7(c) and (d), respectively, and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site. The post-development stormwater management system at the Site was designed so that the total volume associated with the 100-year, 24-hour projected design storm will be retained and infiltrated on the Site.

Additionally, the stormwater management system was designed so that there will be no direct discharge of stormwater runoff from any point or nonpoint source to any wetland, wetlands transition area, or surface waterbody, and stormwater runoff will not increase the volume and rate of discharge into any wetland, wetlands transition area, or surface water body from that which existed prior to development of the parcel.

Stormwater Diversion Berms

Fourteen diversion berms (also referred to as swales) were designed to convey the peak discharge associated with the projected 100-year, 24-hour design storm event without overtopping and with a minimum 0.5 feet of freeboard. Additionally, to avoid unstable flow, which induces extra scouring of the diversion berm bed, the flow depth during the 100-year, 24-hour design storm, was designed to be outside of 10 percent of the critical depth. The lining for diversion berms was designed to withstand the design shear stress associated with peak discharge during the 100-year, 24-hour design storm event.

Culverts

One culvert was designed, which will route stormwater flow to Basin 4 underneath the access road. The culvert was designed to convey the peak discharge associated with the projected 100-year, 24-hour design storm event without overtopping the upstream roadside swale.

Stormwater BMPs

Six spatially distributed stormwater BMPs were designed, which each consist of a sediment forebay and

infiltration basin. BMPs whose contributing drainage area includes regulated motor vehicle surfaces were designed with an additional bioretention basin and with a maximum drainage area of 2.5 acres (not including direct rainfall onto the stormwater BMP system). The sediment forebay design includes a riser with a pipe outlet to the adjacent bioretention basin (or to the adjacent infiltration basin for the stormwater BMPs that do not have a bioretention basin) and a spillway to the infiltration basin. The bioretention basin design includes a riser with a pipe outlet to the infiltration basin. The sediment forebays were designed to store the volume of runoff associated with the NJDEP water quality design storm (WQDS) from the contributing drainage area without overtopping the sediment forebay riser rim elevation. The bioretention basins were designed to also store the volume of runoff associated with the NJDEP WQDS with 1 foot of ponded water in the bioretention basin. The infiltration basins were designed to store the runoff volume associated with the projected 100-year, 24-hour storm without overtopping the infiltration basin spillway.

Groundwater Mounding

As required by the New Jersey Stormwater Management Rules (N.J.A.C. 2023a), an assessment of hydraulic impacts to the groundwater table due to infiltration BMPs was conducted. This analysis determined feasibility of stormwater infiltration within the required time limit of 72 hours and potential impacts to nearby structures by modeling groundwater mounding under and around each infiltration basin. Groundwater mounding analysis was conducted using the projected 100-year, 24-hour design storm and the infiltration basins were designed so that the estimated elevation of the groundwater mound was below the bottom elevation of the infiltration basin.

Energy Dissipation

Energy dissipation pads and overflow spillways were designed to dissipate energy at stormwater outlets. The energy dissipation pads were designed to dissipate the energy generated from the outlet pipes from each sediment forebay and bioretention basin as well as the culvert, which routes into Basin 4. The energy dissipation pad geometry and riprap diameter were designed to withstand the erosive forces of the projected 100-year, 24-hour design event.

The spillways were designed at each sediment forebay (inlet and overflow) and infiltration basin to provide erosion resistance between the basin outlets and the downstream area. The sediment forebay spillway geometry and riprap diameter, at the inlet where the diversion berm comes in and at the overflow, were designed to withstand the erosive forces of the 100-year, 24-hour design storm event peak flow.

The overflow spillways of the infiltration basins were designed as an energy dissipation pad at the lowest elevation along the rim of each basin. The riprap diameters and geometry of these spillways were sized based on the peak discharge associated with the 10-year, 24-hour storm assuming the infiltration

basin is full capacity (i.e., a 100-year, 24-hour storm event directly followed by a 10-year, 24-hour design storm).

METHODOLOGY

Analysis was performed in accordance with N.J.A.C. 7:8-5.7 (2023a), using hydrology and hydraulic procedures presented in the Soil Conservation Service (SCS) Technical Release 55 (TR-55) (USDA 1986) and the New Jersey Stormwater Best Practices Manual (NJDEP 2021). The pre-development and post-development conditions at the Site were modeled using HydroCAD software (HydroCAD 2022), and were compared using drainage areas with similar discharge points (comparison points) for both conditions. The HydroCAD output is included in **Attachment A**.

Diversion Berms

The diversion berm capacity and freeboard criteria were evaluated with the post-development HydroCAD model.

Lining for the diversion berms was evaluated based on the permissible shear stress. The diversion berm was assumed stable if the calculated shear stress at the bottom of the channel was lower than the permissible shear stress for the channel boundary condition as assessed by the following relationship:

$$\tau_p \geq \gamma \cdot d \cdot S$$

where τ_p is the permissible shear stress; γ is the specific weight of water (62.43 lbf/ft^3); d is the maximum depth of flow for the design discharge; and S is the slope of channel.

Additionally, to avoid unstable flow, the flow depth during the 100-year, 24-hour design storm, was designed to be outside of 10 percent of the critical depth. The flow is at its critical depth when the Froude number is 1. The critical depth was assessed through the following relationship:

$$\text{yc} = (\frac{V}{2})^2 (g)^{-1}$$

where yc is the critical depth; V is the velopcity at flow depth; and g is the gravitational constant.

Energy Dissipation Pads and Spillways

The riprap diameter and geometry of the energy dissipation pads and spillways were designed with the following equations based on guidance from the Standard for Conduit Outlet Protection (NJDA 2017).

$$D_{50} = \frac{0.02}{TW} q^{1.33}$$

$$L_a = 1.8\left(\frac{q}{D_o^{0.5}}\right) + 7D_o \; and \;\; W = 3W_o + L_a \;\; when\, TW < 0.5D_o \text{ or}$$

$$L_a = 3\left(\frac{q}{D_o^{0.5}}\right) and\, W = 3W_o + 0.4L_a \;\; when\, TW \geq 0.5D_o$$

$$where\, q = \frac{Q}{W_o}$$

Where D_{50} is the median stone diameter (ft), TW is the tailwater depth (ft), q is the unit discharge ($ft^3/s/ft$), W_O is the pipe width or flow width (ft), D_o is the pipe height or flow height (ft), L_a is the length of the energy dissipation pad (ft), W is the terminal apron width, and Q is the outlet flow (ft^3/s).

Culverts

The culvert diameter was determined using the nomographs included in the Hydraulic Design of Highway Culverts, Highway Design Series Number 5 (HDS5) (FHWA 2012).

Stormwater BMPs

The infiltration basins, bioretention cells, and sediment forebays were modeled as ponds within the HydroCAD model. Stage/storage information as well as the outlet information (riser pipes, culverts, and spillways) were entered into the model for each of the ponds. The storage capacity of the infiltration basins, bioretention cells, and sediment forebays based on ponding depth, area, and bioretention soil depth (for the bioretention basins) were also calculated within a spreadsheet.

Groundwater Mounding

The groundwater mounding for the infiltration basins was evaluated using the methodology described in Chapter 13 of the NJDEP Stormwater BMP Manual (NJDEP 2023). The Hantush equation uses the soil permeability rate, soil specific yield, horizontal hydraulic conductivity, basin dimensions, duration of infiltration, and initial thickness of the saturated zone to determine the maximum groundwater mound height and breadth.

DESIGN INPUT PARAMETERS AND ASSUMPTIONS

Design Storm Rainfall Distribution and Depth

The design storms used in this analysis were the 2-year, 10-year, and 100-year, 24-hour events (current and projected) and the NJDEP WQDS. The rainfall depths for the current and projected design storm events for Manchester, Ocean County, New Jersey, are provided in Table 1 and Table 2 below as defined by N.J.A.C. 7:8-5.5(d) and 7:8-5.7 (N.J.A.C. 2023a). The NJDEP WQDS consists of 1.25 inches of rainfall over two hours. Hydrologic analyses were conducted using the NOAA Region D rainfall precipitation distribution (NJDEP 2023).

Table 1. Current design storms and associated rainfall depth and storm length

Design Storm Frequency	Precipitation Depth (inches)	Storm Length (hours)
2-year	3.40	24
10-year	5.31	24
100-year	9.28	24
NJDWP WQDS	1.25	2

Table 2. Projected design storms and associated rainfall depth and storm length

Design Storm Frequency	Precipitation Depth (inches)	Storm Length (hours)
2-year	4.01	24
10-year	6.26	24
100-year	11.17	24
NJDWP WQDS	1.25	2

Drainage Area Delineation

The pre-development condition model included three (3) drainage areas (e.g., subcatchments). In general, runoff from each subcatchment drains via overland flow to the base of the existing landfill. **Attachment B** includes the drainage area delineations for the pre-development model. Table 3 includes the pre-development drainage areas.

Table 3. Pre-Development Drainage Areas Summary

Drainage Area	Area (acres)

DA1	11.17
DA2	20.83
DA3	2.35

The post-development condition model included subcatchments delineated to each of the diversion berms. In general, runoff from each subcatchment drains via overland flow to diversion berms that direct the runoff into the sediment forebay of one of the six stormwater basins (located adjacent to the landfill closure area). **Attachment C** includes the drainage area delineations for the post-development condition. Table 4 includes the post-development drainage areas to each diversion berm as well as the total area draining to each stormwater basin. In the post-development condition,limited vegetated area around the periphery of the landfill will drain over land to the surrounding area. This area was not included in the HydroCAD model but included in Table 4. Direct rainfall to the basins and run-on from adjacent forested areas were accounted for in the HydroCAD model and are included in Table 5.

Table 4. Post-Development Drainage Areas Summary

Drainage Area	Area (ac)	Total Area (acres)
1A West	1.70	11.64
1A Central	5.75	
1A East	4.19	
1B	2.39	2.39
2A West	1.26	2.44
2A East	1.18	
2B West	4.19	8.68
2B East	4.50	
3	2.43	2.43
4 West	1.61	2.47
4 East	0.87	
Overland Flow off Landfill	4.3	4.3

Table 5. Areas (in Acres) of direct rainfall to the stormwater BMPs

Area	Sediment Forebay	Bioretention Cell	Infiltration Basin
Basin 1A: Direct Rainfall	0.08	0	1.21

Basin 1B: Direct Rainfall	0.15	0.19	0.69
Basin 1B: Forested Run-on	0.08	0.08	0
Basin 2A: Direct Rainfall	0.19	0.311	1.13
Basin 2B: Direct Rainfall	0.11	0	1.20
Basin 3: Direct Rainfall	0.02	0.09	0.37
Basin 4: Direct Rainfall	0.12	0.11	0.55
Basin 4: Forested Run-on	0	0.71	0.19

Curve Number (CN)

The area of the landfill is classified as Pits, Sand and Gravel. The remainder of the Site is classified as various sandy soils, including Atsion Sand (AtsAO), Lakehurst Sand (LakB), Lakewood Sand (LasB and LasC), and Woodmansie Sand (WobB). According to the NRCS Web Soil Survey (NRCS 2015), soil types in the pre-development subcatchments are entirely HSG A. This is consistent with soil borings performed on-Site which identified white and tan fine sand, coarse sand in some intervals and little silt or clay. This HSG value was referenced when identifying the curve number CN values for the pervious areas of the subcatchments in the pre-development condition. The landfill closure will consist of a 24-inch thick (minimum) permeable clean soil cover system comprised of 18-inch-thick layer of clean sand overlain with a 6-inch-thick layer of vegetative support material. An HSG A was referenced when identifying CN values for the pervious areas of the subcatchments in the post-development condition.

The pre-development land use in each subcatchment was determined by reviewing existing plans and aerial imagery, as well as visual observations. The land use was determined to be mostly vegetated areas of the uncapped landfill (greater than 75% grass cover in good condition) and unimproved dirt roads with areas of impervious cover (buildings, concrete cover, salt storage shed, and asphalt cover). The vegetated areas were modeled with a curve number of 39, the unimproved dirt roads were modeled with a curve number of 72, and impervious areas were modeled with a curve number of 98.

The post-development condition is comprised of vegetation (capped landfill area), impervious cover (gravel access roads, compost area, asphalt pad for salt shed, and future potential solar array ballast blocks). A CN of 39 was used for the vegetated areas, a CN of 98 was used for the gravel access roads, compost area, and solar array ballast blocks, and a CN of 72 was used for unimproved sand roads.

The area of impervious surface due to potential future solar panel ballast blocks was estimated under the assumption that the solar panels will produce 5.2 megawatts of power with 350 30-square-foot ballast

blocks required per megawatt of power. This resulted in a total impervious area of 1.25 acres, which was assumed to be uniformly distributed across the available space for solar panels (drainage areas to Basin 1A and Basin 2B).

Time of Concentration (TC)

The time of concentration (TC) was calculated using the methodology in Chapter Five of the New Jersey Stormwater Best Practices Manual (NJDEP 2023); the flow path was measured from the hydrologically most distant point from each diversion berm within the drainage area. Within the flow path, the sheet flow length was limited to 100 feet or the McCuen-Spiess limitation, whichever was shorter, and the remainder of the flow path was assumed to be shallow concentrated flow. The TC was calculated using the current and projected 2-year, 24-hour design storm in the current and projected models, respectively. The TCs for the post-development condition for current and proposed conditions are included in Table 6. The time of concentration paths are shown on **Attachment B** and **Attachment C.**

Table 6. Times of concentration for the post-development current and proposed conditions

Drainage Area	Time of Concentration (min) Current Conditions	Time of Concentration (min) Proposed Conditions
1A West	14.6	13.7
1A Central	17.7	16.8
1A East	16.1	14.2
1B	3.1	3.0
2A West	2.2	2.1
2A East	3.4	3.3
2B West	17.5	16.5
2B East	17.1	16.1
3	15.0	14.3
4 West	1.8	1.7
4 East	3.2	3.1

Diversion Berms

The permissible shear stress used for the permanent vegetated diversion berm lining was 2.1 pounds per square foot (lb/ft^2) based on Class B vegetation (PADEP 2003) and the permissible shear stress used for the R-4 (median 6-inch diameter) riprap was 2.0 lb/ft^2 (PADEP 2003). A Manning's roughness coefficient (n-value) of 0.08 was used for the vegetated diversion berms, representing earth, long dense weeds open channels (HydroCAD 2022), and a Manning's n-value of 0.049 was used for the riprap lined diversion

berms (PADEP 2003). Longitudinal slopes of the diversion berms were based on the proposed grading and ranged from 0.4% to 3.2%.

Groundwater Mounding

Groundwater mounding calculations were completed according to Chapter 13 of the New Jersey Stormwater Best Management Practices Manual (NJDEP 2023). The groundwater mounding analysis is included as **Attachment D**. The water table elevation was determined from the "Final Hydrogeologic Investigation Report, Manchester Landfill" prepared for NextGrid, Inc and dated February 2023.

During the pre-design investigation, soil infiltration testing was conducted at the locations of each of the initially proposed infiltration basins (Basins 1A, 1B, 2A, 2B, 3, and 4). The results of this testing were used to inform the soil permeability rate for the groundwater mounding analysis. A safety factor of two was applied to the tested soil permeability rates for all basins. The horizontal hydraulic conductivity was assumed to be five times the soil permeability rate (with the safety factor). The default values for specific yield (0.15) and initial thickness of the saturated zone (10 ft) were used.

Because the basins are irregularly shaped, for the groundwater mounding calculations, basin dimensions were converted to a rectangular shape with the same area that best fit the original shape of the design. The duration of infiltration was calculated using the basin dimensions, soil permeability rate, and volume of runoff stored in each basin during the projected 100-year, 24-hour design storm as calculated by the HydroCAD model.

RESULTS

This section presents the results of the hydraulic and hydrologic analyses including the comparison of pre-development and post-development peak flow rates and sizing of stormwater management features.

Peak Discharge and Hydrographs

Peak discharge rates and volumes of the pre-development conditions model were compared to peak discharge rates of the post-development model for each drainage area. Summaries of the comparisons are provided in Table 7 and Table 8. With the implementation of the proposed stormwater management system, the rainfall from all design storms up to and including the projected 100-year, 24-hour storm is retained and infiltrated on the Site. In the post-construction model, there is no runoff from the Site, therefore, the post-construction peak discharge from the Site does not exceed the pre-construction peak discharge and there is no increased flood damage at or downstream of the Site. These results demonstrate compliance with the New Jersey Stormwater runoff quantity standards N.J.A.C. 7:8-5.6(b)2 (N.J.A.C. 2023a). The hydrographs are included in the HydroCAD output in **Attachment A**.

Table 7. Modeled peak flow rates of Site pre-development and post-development under current condition and proposed condition design storms

Design Storm Event	Drainage Area	Current Conditions		Projected Conditions	
		Pre-Development Peak Flow Rate (cfs)	Post-Development Peak Flow Rate (cfs)	Pre-Development Peak Flow Rate (cfs)	Post-Development Peak Flow Rate (cfs)
2-year	DA1A	1.7	0	2.5	0
	DA1B		0		0
	DA2A	5.2	0	7.4	0
	DA2B		0		0
	DA3	1.1	0	1.5	0
	DA4	N/A	0	N/A	0
10-year	DA1A	4.2	0	6.3	0
	DA1B		0		0
	DA2A	12.4	0	17.8	0
	DA2B		0		0
	DA3	2.4	0	3.5	0
	DA4	N/A	0	N/A	0
100-year	DA1A	15.4	0	23.6	0
	DA1B		0		0
	DA2A	45.4	0	66.6	0
	DA2B		0		0
	DA3	8.3	0	12.0	0
	DA4	N/A	0	N/A	0
WQDS	DA1A	0.8	0	0.8	0
	DA1B		0		0
	DA2A	1.4	0	1.4	0
	DA2B		0		0
	DA3	0.1	0	0.1	0
	DA4	N/A	0	N/A	0

Table 8. Modeled stormwater runoff volume of Site pre-development and post-development under current condition and proposed condition design storms

Design Storm Event	Drainage Area	Current Conditions		Projected Conditions	
		Pre-Development Volume (cf)	Post-Development Volume (ac-ft)[1]	Pre-Development Volume (cf)	Post-Development Volume (ac-ft)[1]
2-year	DA1A	14,279	0	20,446	0
	DA1B		0		0
	DA2A	27,729	0	39,648	0
	DA2B		0		0
	DA3	3,476	0	4,963	0
	DA4	N/A	0	N/A	0
10-year	DA1A	38,372	0	54,827	0
	DA1B		0		0
	DA2A	73,935	0	105,207	0
	DA2B		0		0
	DA3	9,126	0	12,857	0
	DA4	N/A	0	N/A	0
100-year	DA1A	120,767	0	169,725	0
	DA1B		0		0
	DA2A	229,797	0	321,943	0
	DA2B		0		0
	DA3	27,475	0	38,165	0
	DA4	N/A	0	N/A	0
WQDS	DA1A	1,485	0	1,485	0
	DA1B		0		0
	DA2A	2,770	0	2,770	0
	DA2B		0		0
	DA3	295	0	295	0
	DA4	N/A	0	N/A	0

Diversion Berm Design

The recommended geometry of the diversion berms and corresponding shear stress and permissible shear stress are shown in Table 9.

Table 9. Minimum Geometry and Lining for Diversion Berms

Diversion Berm	Channel Slope (ft/ft)	Minimum Bottom Width (ft)	Minimum Depth (ft)	Left Side Slope (H:V)	Right Side Slope (H:V)	Maximum Shear Stress (lb/ft^2)	Permissible Shear Stress (lb/ft^2)	Designed Liner Type
DA1A East Swale	0.0073	0.00	2.00	33:1	3:1	0.31	2.10	Vegetated
DA1A West Swale	0.004	0.00	2.00	3:1	33:1	0.22	2.10	Vegetated
DA1A Central Swale A	0.005	0.00	2.00	3:1	33:1	0.17	2.10	Vegetated
DA1A Central Swale B	0.032	0.00	2.00	3:1	3:1	1.5	2.10	Vegetated
DA1B Swale	0.005	0.00	2.00	3:1	33:1	0.35	2.10	Vegetated
DA2A East Swale	0.0171	0.00	2.00	3:1	33:1	0.74	2.10	Vegetated
DA2A West Swale	0.0056	0.00	2.00	33:1	3:1	0.27	2.10	Vegetated
DA2B East Swale	0.0083	0.00	2.00	3:1	33:1	0.37	2.10	Vegetated
DA2B Road Swale	0.0287	0.00	2.00	3:1	3:1	1.8E-05	2.10	Vegetated
DA2B West Swale	0.0039	0.00	2.00	33:1	3:1	0.20	2.10	Vegetated
DA3 Swale	0.0251	0.00	2.00	3:1	3:1	1.79	2.00	6-inch Riprap
DA4 East Swale	0.0132	0.00	2.00	33:1	3:1	0.51	2.10	Vegetated
DA4 Roadside Swale	0.0243	3.00	1.80	3:1	3:1	1.1	2.00	6-inch Riprap
DA4 West Swale	0.0042	0.00	2.00	3:1	33:1	0.24	2.10	Vegetated

Energy Dissipation

Supporting calculations for the energy dissipation pads and spillways are presented in **Attachment E**. A diagram of the inlet size, apron length, and apron width is also provided in **Attachment E;** the spillways were designed to be rectangular. The minimum energy dissipation pad geometry for pipe outlets is summarized in Table 10 below. The spillway geometry is summarized in Table 11 below. A riprap size of nine inches will be used for all of the pipe outlet energy dissipation and spillways, which was the maximum calculated riprap size in the energy dissipation calculations.

Table 10. Pipe Outlet Energy Dissipation Pad Sizing

Basin	La - Minimum Apron Length (ft)	W- Minimum Apron Width (ft)	D_{50} - Minimum Median Stone Diameter (in)*	Minimum Lining Thickness (with filter layer, ft)
Basin 1A Forebay Outlet	20	26	4	0.7
Basin 1B Forebay Outlet	22	26	2	0.3
Basin 1B Bioretention Outlet	22	28	7	1.1
Basin 2A Forebay Outlet	19	24	1	0.2
Basin 2A Bioretention Outlet	20	24	9	1.6
Basin 2B Forebay Outlet	24	30	9	1.5
Basin 3 Forebay Outlet	19	23	3	0.5
Basin 3 Bioretention Outlet	16	20	3	0.5
Basin 4 Forebay Outlet	22	26	2	0.3
Basin 4 DA4 Culvert	16	19	2	0.4
Basin 4 Bioretention Outlet	22	28	4	0.7

*ASTM D5519 characterizes riprap as having a size of three inches or greater. Some minimum median stone diameters in this table are smaller than three inches and would be considered coarse aggregate rather than riprap. However, as stated above, a stone size of nine inches (riprap) will be used for all spillways and energy dissipation pads.

Table 11. Spillway Sizing

Spillway	La - Minimum Apron Length (ft)	W_o – Minimum Apron Width	D_{50} - Minimum Median Stone Diameter (in)	Minimum Lining Thickness (with filter layer, ft)
Basin 1A Infiltration Basin	5	12	8	1.3
Basin 1B Infiltration Basin	3	12	3	0.6
Basin 2A Infiltration Basin	4	12	6	1.1
Basin 2B Infiltration Basin	4	12	7	1.2
Basin 3 Infiltration Basin	2	12	1	0.3
Basin 4 Infiltration Basin	2	12	2	0.4
Basin 1A Forebay	3	25	1	0.2
Basin 1B Forebay	3	10	1	0.2
Basin 2A Forebay	2	20	1	0.1
Basin 2B Forebay	0	12	0	0
Basin 3 Forebay	1	10	1	0.1
Basin 4 Forebay	0	10	0	0
Basin 1A Forebay Inlet	9	10	3	0.4
Basin 1B Forebay Inlet	11	10	3	0.5
Basin 2A Forebay Inlet	8	10	2	0.4
Basin 2B Forebay Inlet	9	10	2	0.4
Basin 3 Forebay Inlet	10	10	1	0.2
Basin 4 Forebay Inlet	7	10	3	0.5

*ASTM D5519 characterizes riprap as having a size of three inches or greater. Some minimum median stone diameters in this table are smaller than three inches and would be considered coarse aggregate rather than riprap. However, as stated above, a stone size of nine inches (riprap) will be used for all spillways and energy dissipation pads.

Culvert

There is one culvert that conveys stormwater under the access road and into Basin 4. The nomograph used to size the culvert is included in **Attachment E** and the results are summarized in Table 12 below.

Table 12. Culvert Sizing

Culvert	Number of Pipes	Diameter per Pipe (in)	Capacity (cfs)	Required Capacity	Headwater (ft)	Maximum Permissible Headwater (ft)
DA4 Culvert	2	12	10.5	10.5	1.8	1.8

The culvert headwater does not exceed the diversion berm depth of 1.8 feet; therefore, overtopping of the upstream diversion berm banks is unlikely to occur during storms up to projected 100-year 24-hour design storm event.

Stormwater BMPs

The sediment forebay geometry calculations are included in the HydroCAD output in **Attachment A** and in **Attachment E** and the results are summarized in Table 13 below.

Table 13. Sediment Forebay Geometry

	Bottom Area (SF)	Depth (ft)	Side Slopes (H:V)	Volume (CF)
Basin 1A	662	2.8	3:1	3,064
Basin 1B	3,096	2.5	3:1	9,827
Basin 2A	3,639	1.7	3:1	7,232
Basin 2B	928	2.5	3:1	3,462
Basin 3	3,115	1.5	3:1	5,426
Basin 4	2,116	3.0	3:1	8,832

The bioretention basin geometry calculations are included in the HydroCAD output in **Attachment A** and in **Attachment E** and the results are summarized in Table 14 below.

Table 14. Bioretention Basin Geometry

	Bottom Area (SF)	Ponding Depth (ft)	Soil Depth (ft)	Side Slopes (H:V)	Volume (CF)
Basin 1B	4,198	1.0	4.0	3:1	9,624
Basin 2A	4,692	1.0	2.5	3:1	8,622
Basin 3	3,477	1.0	1.5	3:1	5,395
Basin 4	2,922	1.0	4.0	3:1	6,753

The infiltration basin geometry calculations are included in the HydroCAD output in **Attachment A** and in **Attachment E** and the results are summarized in Table 15 below.

Table 15. Infiltration Basin Geometry for Infiltration Trench

	Depth (ft)	Side Slopes (H:V)	Volume (CF)
Basin 1A	7.9	3:1	239,871
Basin 1B	5.9	3:1	118,777
Basin 2A	7.4	3:1	207,789
Basin 2B	4.7	3:1	177,014
Basin 3	4.3	3:1	58,425
Basin 4	6.4	3:1	95,875

Groundwater Mounding

The groundwater mounding analysis is included as **Attachment D** and the results are summarized in Table 16 below. The estimated groundwater mound elevation resulting from infiltration of the projected 100-year, 24-hour design storm is below the bottom of the infiltration basin for all basins when accounting for the reduction in the vertical hydraulic gradient as infiltration occurs. All drainage times are within the 72-hour limit.

Table 16. Groundwater Mounding Analysis Summary

	Basin Bottom Elevation (ft)	Groundwater Table (ft)	Groundwater Mound Height (ft)	Groundwater Mound Elevation (ft)	Duration of Infiltration (hr)
Basin 1A	150	136	13.4	149.4	40.8
Basin 1B	148	137	8.4	145.4	52.5
Basin 2A	150.5	138	12.3	150.3	22.5
Basin 2B	151	137	13.8	150.8	70.3
Basin 3	142	137	4.7	141.7	60.0
Basin 4	152	137	12.8	149.8	26.5

CONCLUSION

A post-development stormwater management system was designed for the proposed landfill closure and future solar development of the Manchester Landfill. The system includes stormwater diversion berms, sediment forebays, bioretention basins, infiltration basins, energy dissipation pads, spillways, culverts and

pipes.

The proposed stormwater management system has been designed in accordance with the stormwater management requirements of the New Jersey Stormwater Management Rules (N.J.A.C. 2023a) and the Pinelands Comprehensive Management Plan (N.J.A.C. 2023b).

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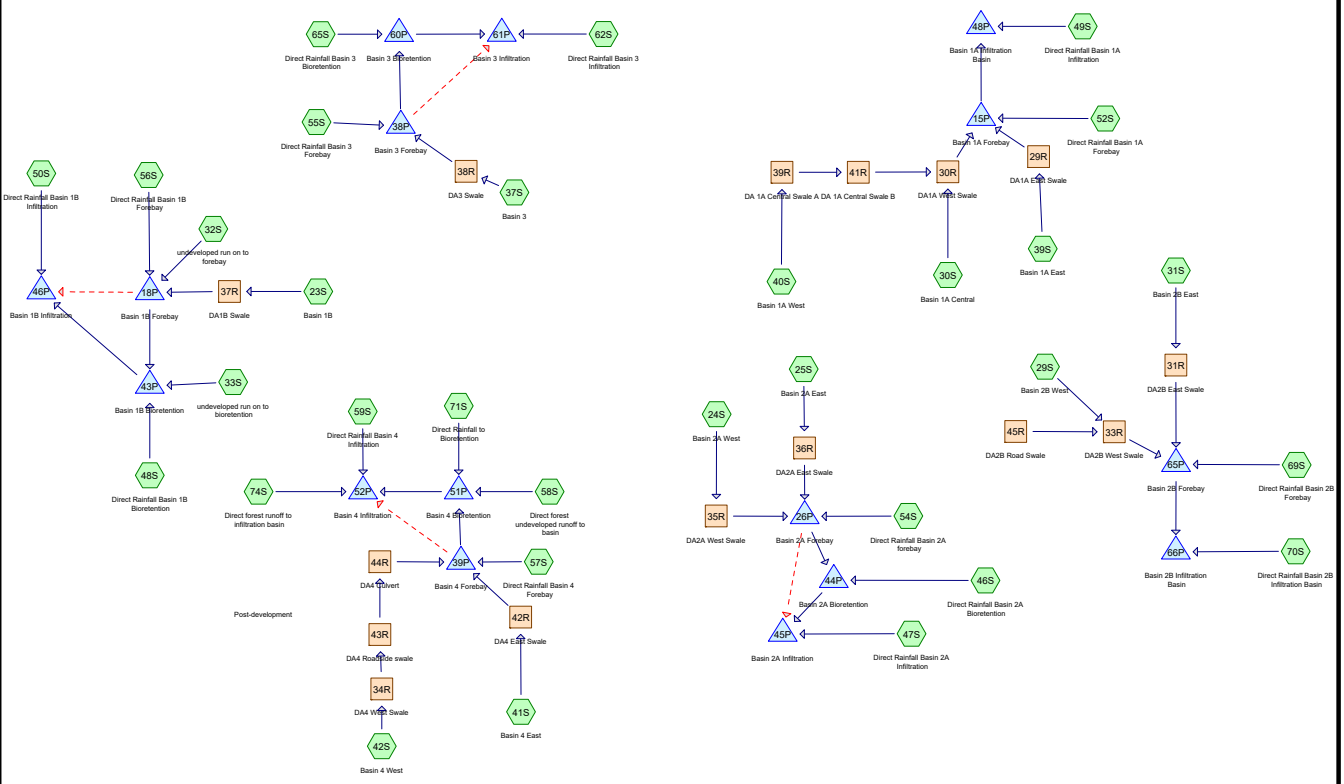
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Attachment A
HydroCAD Model Output



Subcat Reach Pond Link

Routing Diagram for Hydrologic_Model_postdev_current
Prepared by SCCM, Printed 11/20/2024
HydroCAD® 10.10-7c s/n 03895 © 2022 HydroCAD Software Solutions LLC

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-year_current	NOAA 24-hr	D	Default	24.00	1	3.40	2
2	10-year_current	NOAA 24-hr	D	Default	24.00	1	5.31	2
3	100-year_current	NOAA 24-hr	D	Default	24.00	1	9.28	2
4	NJDEP_WQDS	NJ DEP 2-hr		Default	2.00	1	1.25	2

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
6,960	55	(32S, 33S)
72,658	98	(49S, 62S, 65S)
604,816	39	>75% Grass cover, Good, HSG A (23S, 29S, 31S, 39S, 40S)
62,683	98	Direct Rainfall (46S, 47S)
39,372	98	Solar (29S, 31S, 39S, 40S)
39,160	55	Woods, Good, HSG B (58S, 74S)
65,122	98	compost area (24S, 25S)
126,977	98	compost/recycling area (23S, 42S)
126,934	98	direct rainfall (50S, 52S, 55S, 56S, 57S, 59S, 69S, 70S)
8,320	98	direct rainfall onto bioretention (48S)
4,617	98	direct rainfall to bioretention (71S)
8,189	98	direct rainfall to forebay (54S)
266,152	39	grass (30S, 37S)
71,438	39	grass cover (24S, 25S, 41S, 42S)
23,697	98	gravel road (23S, 25S, 42S)
21,693	98	salt storage area (41S)
74,400	72	sand (37S)
15,638	98	solar (30S)
1,638,827	**62**	**TOTAL AREA**

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
604,816	HSG A	23S, 29S, 31S, 39S, 40S
39,160	HSG B	58S, 74S
0	HSG C	
0	HSG D	
994,851	Other	23S, 24S, 25S, 29S, 30S, 31S, 32S, 33S, 37S, 39S, 40S, 41S, 42S, 46S, 47S, 48S, 49S, 50S, 52S, 54S, 55S, 56S, 57S, 59S, 62S, 65S, 69S, 70S, 71S
1,638,827		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover
0	0	0	0	79,618	79,618	
604,816	0	0	0	0	604,816	>75% Grass cover, Good
0	0	0	0	62,683	62,683	Direct Rainfall
0	0	0	0	39,372	39,372	Solar
0	39,160	0	0	0	39,160	Woods, Good
0	0	0	0	65,122	65,122	compost area
0	0	0	0	126,977	126,977	compost/recycling area
0	0	0	0	126,934	126,934	direct rainfall
0	0	0	0	8,320	8,320	direct rainfall onto bioretention
0	0	0	0	4,617	4,617	direct rainfall to bioretention
0	0	0	0	8,189	8,189	direct rainfall to forebay
0	0	0	0	266,152	266,152	grass
0	0	0	0	71,438	71,438	grass cover
0	0	0	0	23,697	23,697	gravel road
0	0	0	0	21,693	21,693	salt storage area
0	0	0	0	74,400	74,400	sand
0	0	0	0	15,638	15,638	solar
604,816	**39,160**	**0**	**0**	**994,851**	**1,638,827**	**TOTAL AREA**

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	15P	156.00	155.50	25.0	0.0200	0.012	0.0	24.0	0.0
2	18P	156.00	155.50	30.0	0.0167	0.012	0.0	18.0	0.0
3	26P	156.00	155.00	24.0	0.0417	0.012	0.0	18.0	0.0
4	38P	144.00	143.50	30.0	0.0167	0.012	0.0	18.0	0.0
5	39P	155.00	154.70	30.0	0.0100	0.012	0.0	18.0	0.0
6	43P	154.00	152.00	32.0	0.0625	0.012	0.0	24.0	0.0
7	44P	154.00	153.00	24.0	0.0417	0.012	0.0	18.0	0.0
8	51P	153.00	152.70	30.0	0.0100	0.012	0.0	24.0	0.0
9	60P	143.00	142.00	44.0	0.0227	0.012	0.0	18.0	0.0
10	65P	156.00	155.50	25.0	0.0200	0.012	0.0	24.0	0.0

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 23S: Basin 1B Runoff Area=2.391 ac 91.22% Impervious Runoff Depth=2.89"
Flow Length=373' Tc=3.1 min CN=WQ Runoff=7.65 cfs 25,075 cf

Subcatchment 24S: Basin 2A West Runoff Area=1.263 ac 69.91% Impervious Runoff Depth=2.22"
Flow Length=246' Tc=2.2 min CN=WQ Runoff=3.13 cfs 10,157 cf

Subcatchment 25S: Basin 2A East Runoff Area=1.175 ac 71.06% Impervious Runoff Depth=2.25"
Flow Length=370' Tc=3.4 min CN=WQ Runoff=2.91 cfs 9,604 cf

Subcatchment 29S: Basin 2B West Runoff Area=4.192 ac 6.25% Impervious Runoff Depth=0.20"
Flow Length=525' Slope=0.0307 '/' Tc=17.5 min CN=WQ Runoff=0.59 cfs 3,078 cf

Subcatchment 30S: Basin 1A Central Runoff Area=5.749 ac 6.24% Impervious Runoff Depth=0.20"
Flow Length=512' Tc=17.7 min CN=WQ Runoff=0.81 cfs 4,218 cf

Subcatchment 31S: Basin 2B East Runoff Area=195,980 sf 6.17% Impervious Runoff Depth=0.20"
Flow Length=489' Slope=0.0301 '/' Tc=17.1 min CN=WQ Runoff=0.63 cfs 3,260 cf

Subcatchment 32S: undeveloped run on to Runoff Area=3,384 sf 0.00% Impervious Runoff Depth=0.31"
Tc=0.0 min CN=55 Runoff=0.02 cfs 88 cf

Subcatchment 33S: undeveloped run on to Runoff Area=3,576 sf 0.00% Impervious Runoff Depth=0.31"
Tc=0.0 min CN=55 Runoff=0.02 cfs 93 cf

Subcatchment 37S: Basin 3 Runoff Area=2.428 ac 0.00% Impervious Runoff Depth=0.74"
Flow Length=359' Tc=15.0 min CN=WQ Runoff=1.48 cfs 6,560 cf

Subcatchment 39S: Basin 1A East Runoff Area=182,579 sf 6.17% Impervious Runoff Depth=0.20"
Flow Length=413' Tc=16.1 min CN=WQ Runoff=0.61 cfs 3,037 cf

Subcatchment 40S: Basin 1A West Runoff Area=1.696 ac 6.25% Impervious Runoff Depth=0.20"
Flow Length=256' Slope=0.0267 '/' Tc=14.6 min CN=WQ Runoff=0.26 cfs 1,245 cf

Subcatchment 41S: Basin 4 East Runoff Area=0.868 ac 57.37% Impervious Runoff Depth=1.82"
Flow Length=329' Tc=3.2 min CN=WQ Runoff=1.74 cfs 5,731 cf

Subcatchment 42S: Basin 4 West Runoff Area=1.605 ac 65.73% Impervious Runoff Depth=2.08"
Flow Length=255' Slope=0.0284 '/' Tc=1.8 min CN=WQ Runoff=3.74 cfs 12,137 cf

Subcatchment 46S: Direct Rainfall Basin Runoff Area=0.311 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=1.10 cfs 3,575 cf

Subcatchment 47S: Direct Rainfall Basin Runoff Area=1.128 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=4.00 cfs 12,967 cf

Subcatchment 48S: Direct Rainfall Basin Runoff Area=0.191 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.68 cfs 2,196 cf

Subcatchment 49S: Direct Rainfall Basin Runoff Area=1.208 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=4.28 cfs 13,887 cf

Subcatchment 50S: Direct Rainfall Basin Runoff Area=0.690 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=2.45 cfs 7,932 cf

Subcatchment 52S: Direct Rainfall Basin Runoff Area=0.075 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.27 cfs 862 cf

Subcatchment 54S: Direct Rainfall Basin Runoff Area=8,189 sf 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.67 cfs 2,161 cf

Subcatchment 55S: Direct Rainfall Basin 3 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.08 cfs 264 cf

Subcatchment 56S: Direct Rainfall Basin Runoff Area=0.153 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.54 cfs 1,759 cf

Subcatchment 57S: Direct Rainfall Basin 4 Runoff Area=0.119 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.42 cfs 1,368 cf

Subcatchment 58S: Direct forest Runoff Area=0.714 ac 0.00% Impervious Runoff Depth=0.31"
Flow Length=234' Tc=40.9 min CN=55 Runoff=0.06 cfs 811 cf

Subcatchment 59S: Direct Rainfall Basin 4 Runoff Area=0.553 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=1.96 cfs 6,357 cf

Subcatchment 62S: Direct Rainfall Basin 3 Runoff Area=0.371 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=1.32 cfs 4,265 cf

Subcatchment 65S: Direct Rainfall Basin 3 Runoff Area=0.089 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.32 cfs 1,023 cf

Subcatchment 69S: Direct Rainfall Basin Runoff Area=0.105 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.37 cfs 1,207 cf

Subcatchment 70S: Direct Rainfall Basin Runoff Area=1.196 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=4.24 cfs 13,749 cf

Subcatchment 71S: Direct Rainfall to Runoff Area=0.106 ac 100.00% Impervious Runoff Depth=3.17"
Tc=0.0 min CN=98 Runoff=0.38 cfs 1,219 cf

Subcatchment 74S: Direct forest runoff to Runoff Area=0.185 ac 0.00% Impervious Runoff Depth=0.31"
Flow Length=152' Tc=31.9 min CN=55 Runoff=0.02 cfs 210 cf

Reach 29R: DA1A East Swale Avg. Flow Depth=0.22' Max Vel=0.36 fps Inflow=0.61 cfs 3,037 cf
n=0.080 L=835.0' S=0.0073 '/' Capacity=113.94 cfs Outflow=0.31 cfs 3,037 cf

Reach 30R: DA1A West Swale Avg. Flow Depth=0.29' Max Vel=0.32 fps Inflow=0.84 cfs 5,463 cf
n=0.080 L=650.0' S=0.0038 '/' Capacity=82.67 cfs Outflow=0.48 cfs 5,463 cf

Reach 31R: DA2B East Swale Avg. Flow Depth=0.23' Max Vel=0.39 fps Inflow=0.63 cfs 3,260 cf
n=0.080 L=737.0' S=0.0083 '/' Capacity=121.27 cfs Outflow=0.37 cfs 3,260 cf

Reach 33R: DA2B West Swale Avg. Flow Depth=0.27' Max Vel=0.31 fps Inflow=0.59 cfs 3,078 cf
n=0.080 L=384.0' S=0.0039 '/' Capacity=83.31 cfs Outflow=0.40 cfs 3,078 cf

Reach 34R: DA4 West Swale Avg. Flow Depth=0.53' Max Vel=0.49 fps Inflow=3.74 cfs 12,137 cf
n=0.080 L=357.0' S=0.0042 '/' Capacity=86.41 cfs Outflow=2.45 cfs 12,137 cf

Reach 35R: DA2A West Swale Avg. Flow Depth=0.45' Max Vel=0.51 fps Inflow=3.13 cfs 10,157 cf
n=0.080 L=478.0' S=0.0056 '/' Capacity=100.19 cfs Outflow=1.83 cfs 10,157 cf

Reach 36R: DA2A East Swale Avg. Flow Depth=0.42' Max Vel=0.85 fps Inflow=2.91 cfs 9,604 cf
n=0.080 L=146.0' S=0.0171 '/' Capacity=174.43 cfs Outflow=2.69 cfs 9,604 cf

Reach 37R: DA1B Swale Avg. Flow Depth=0.68' Max Vel=0.65 fps Inflow=7.65 cfs 25,075 cf
n=0.080 L=383.0' S=0.0052 '/' Capacity=96.33 cfs Outflow=5.34 cfs 25,075 cf

Reach 38R: DA3 Swale Avg. Flow Depth=0.50' Max Vel=1.84 fps Inflow=1.48 cfs 6,560 cf
n=0.049 L=418.0' S=0.0251 '/' Capacity=55.69 cfs Outflow=1.39 cfs 6,560 cf

Reach 39R: DA 1A Central Swale A Avg. Flow Depth=0.17' Max Vel=0.26 fps Inflow=0.26 cfs 1,245 cf
n=0.080 L=498.0' S=0.0050 '/' Capacity=94.45 cfs Outflow=0.14 cfs 1,245 cf

Reach 41R: DA 1A Central Swale B Avg. Flow Depth=0.24' Max Vel=0.78 fps Inflow=0.14 cfs 1,245 cf
n=0.080 L=188.0' S=0.0319 '/' Capacity=38.45 cfs Outflow=0.14 cfs 1,245 cf

Reach 42R: DA4 East Swale Avg. Flow Depth=0.36' Max Vel=0.68 fps Inflow=1.74 cfs 5,731 cf
n=0.080 L=114.0' S=0.0132 '/' Capacity=152.91 cfs Outflow=1.62 cfs 5,731 cf

Reach 43R: DA4 Roadside swale Avg. Flow Depth=0.32' Max Vel=1.89 fps Inflow=2.45 cfs 12,137 cf
n=0.049 L=103.0' S=0.0243 '/' Capacity=73.85 cfs Outflow=2.42 cfs 12,137 cf

Reach 44R: DA4 Culvert Inflow=2.42 cfs 12,137 cf
Outflow=2.42 cfs 12,137 cf

Reach 45R: DA2B Road Swale Avg. Flow Depth=0.00' Max Vel=0.00 fps
n=0.080 L=296.0' S=0.0287 '/' Capacity=36.47 cfs Outflow=0.00 cfs 0 cf

Pond 15P: Basin 1A Forebay Peak Elev=158.88' Storage=3,386 cf Inflow=0.81 cfs 9,362 cf
Outflow=0.77 cfs 6,125 cf

Pond 18P: Basin 1B Forebay Peak Elev=158.78' Storage=11,392 cf Inflow=5.46 cfs 26,922 cf
Primary=4.47 cfs 16,913 cf Secondary=0.00 cfs 0 cf Outflow=4.47 cfs 16,913 cf

Pond 26P: Basin 2A Forebay Peak Elev=157.91' Storage=8,290 cf Inflow=3.61 cfs 21,922 cf
Primary=2.95 cfs 14,676 cf Secondary=0.00 cfs 0 cf Outflow=2.95 cfs 14,676 cf

Pond 38P: Basin 3 Forebay Peak Elev=145.51' Storage=5,520 cf Inflow=1.40 cfs 6,824 cf
Primary=0.06 cfs 1,366 cf Secondary=0.00 cfs 0 cf Outflow=0.06 cfs 1,366 cf

Pond 39P: Basin 4 Forebay Peak Elev=158.16' Storage=9,877 cf Inflow=3.03 cfs 19,236 cf
Primary=1.98 cfs 10,025 cf Secondary=0.00 cfs 0 cf Outflow=1.98 cfs 10,025 cf

Pond 43P: Basin 1B Bioretention	Peak Elev=157.39' Storage=19,201 cf	Inflow=4.60 cfs 19,201 cf Outflow=0.00 cfs 0 cf
Pond 44P: Basin 2A Bioretention	Peak Elev=156.95' Storage=18,251 cf	Inflow=3.22 cfs 18,251 cf Outflow=0.00 cfs 0 cf
Pond 45P: Basin 2A Infiltration	Peak Elev=151.19' Storage=12,966 cf	Inflow=4.00 cfs 12,967 cf Outflow=0.00 cfs 0 cf
Pond 46P: Basin 1B Infiltration	Peak Elev=148.47' Storage=7,931 cf	Inflow=2.45 cfs 7,932 cf Outflow=0.00 cfs 0 cf
Pond 48P: Basin 1A Infiltration Basin	Peak Elev=150.88' Storage=20,009 cf	Inflow=4.28 cfs 20,011 cf Outflow=0.00 cfs 0 cf
Pond 51P: Basin 4 Bioretention	Peak Elev=156.06' Storage=12,054 cf	Inflow=2.07 cfs 12,054 cf Outflow=0.00 cfs 0 cf
Pond 52P: Basin 4 Infiltration	Peak Elev=153.11' Storage=6,567 cf	Inflow=1.96 cfs 6,567 cf Outflow=0.00 cfs 0 cf
Pond 60P: Basin 3 Bioretention	Peak Elev=143.64' Storage=2,389 cf	Inflow=0.32 cfs 2,389 cf Outflow=0.00 cfs 0 cf
Pond 61P: Basin 3 Infiltration	Peak Elev=142.39' Storage=4,265 cf	Inflow=1.32 cfs 4,265 cf Outflow=0.00 cfs 0 cf
Pond 65P: Basin 2B Forebay	Peak Elev=158.56' Storage=4,201 cf	Inflow=0.76 cfs 7,545 cf Outflow=0.44 cfs 3,482 cf
Pond 66P: Basin 2B Infiltration Basin	Peak Elev=151.52' Storage=17,229 cf	Inflow=4.24 cfs 17,230 cf Outflow=0.00 cfs 0 cf

Total Runoff Area = 1,638,827 sf Runoff Volume = 160,094 cf Average Runoff Depth = 1.17"
64.86% Pervious = 1,062,927 sf 35.14% Impervious = 575,900 sf

Summary for Subcatchment 23S: Basin 1B

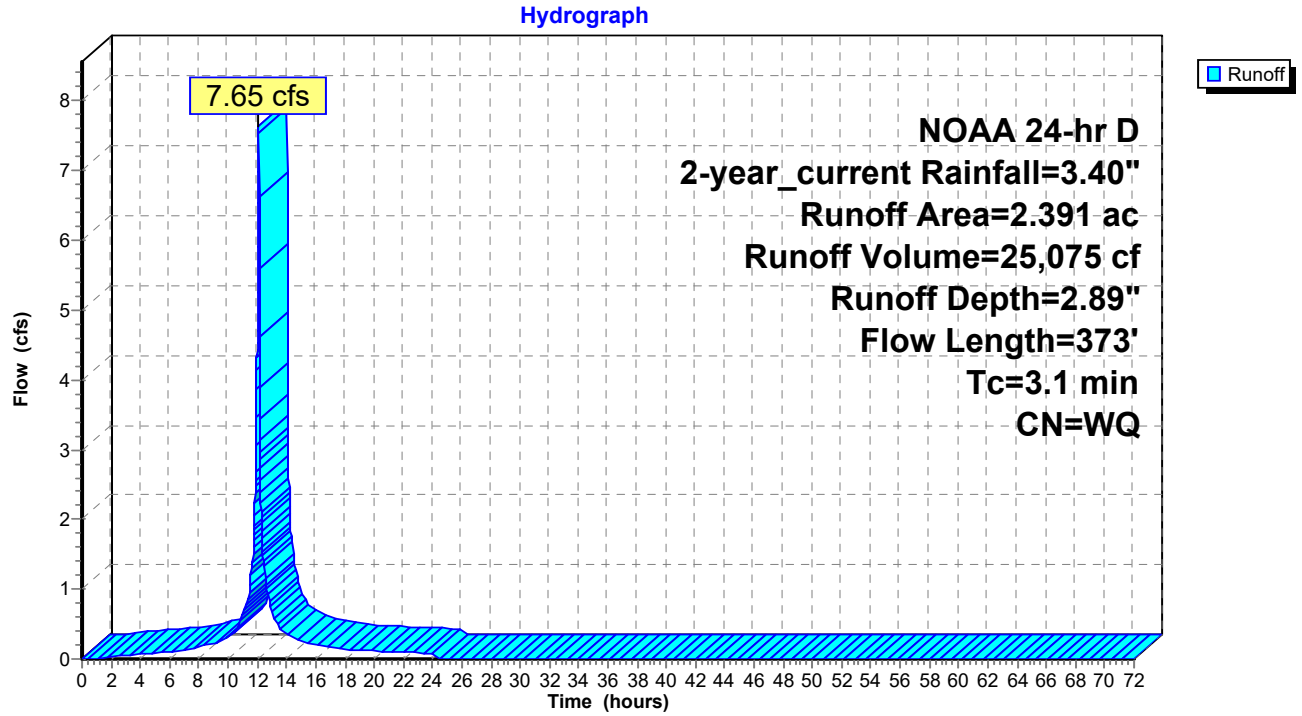
Runoff = 7.65 cfs @ 12.11 hrs, Volume= 25,075 cf, Depth= 2.89"
Routed to Reach 37R : DA1B Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
	0.210	39	>75% Grass cover, Good, HSG A
*	0.084	98	gravel road
*	2.097	98	compost/recycling area
	2.391		Weighted Average
	0.210	39	8.78% Pervious Area
	2.181	98	91.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0282	1.63		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
1.0	195	0.0282	3.41		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.1	78	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.1	373	Total			

Subcatchment 23S: Basin 1B



Summary for Subcatchment 24S: Basin 2A West

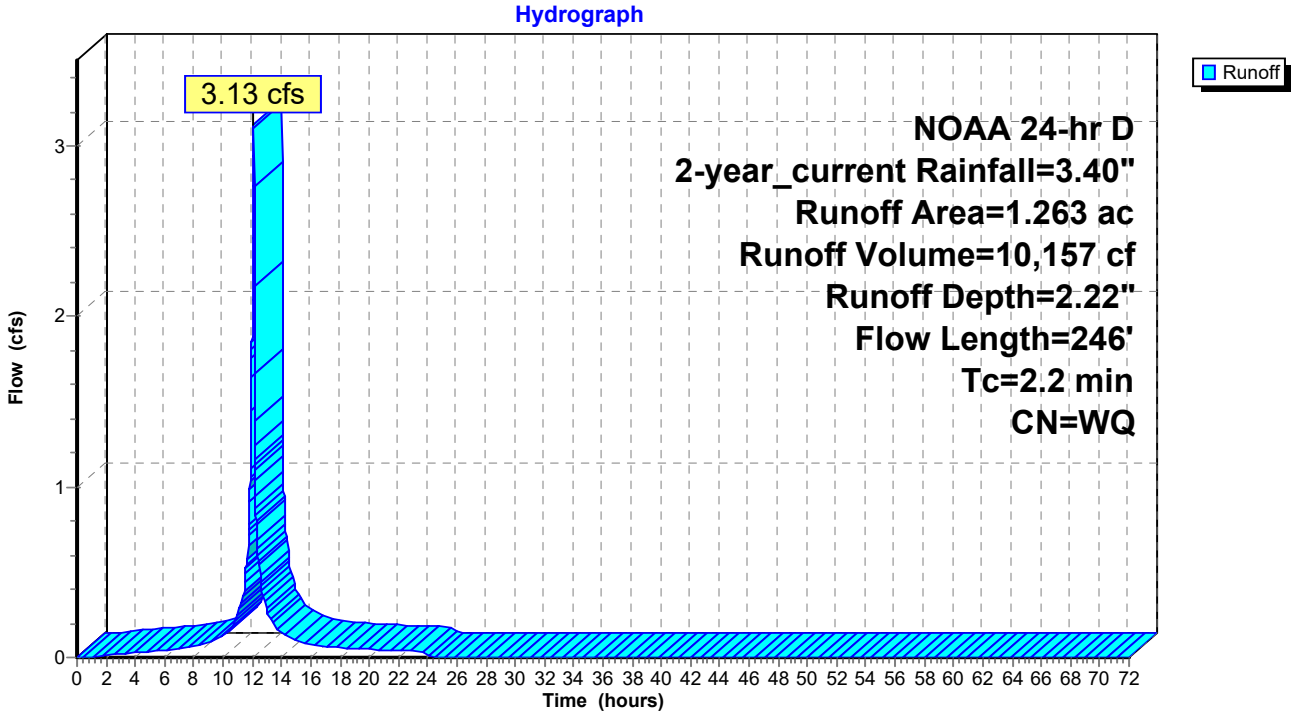
Runoff = 3.13 cfs @ 12.10 hrs, Volume= 10,157 cf, Depth= 2.22"
Routed to Reach 35R : DA2A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.380	39	grass cover
*	0.883	98	compost area
	1.263		Weighted Average
	0.380	39	30.09% Pervious Area
	0.883	98	69.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0303	1.67		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.4	85	0.0303	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.8	61	0.0309	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.2	246	Total			

Subcatchment 24S: Basin 2A West



Summary for Subcatchment 25S: Basin 2A East

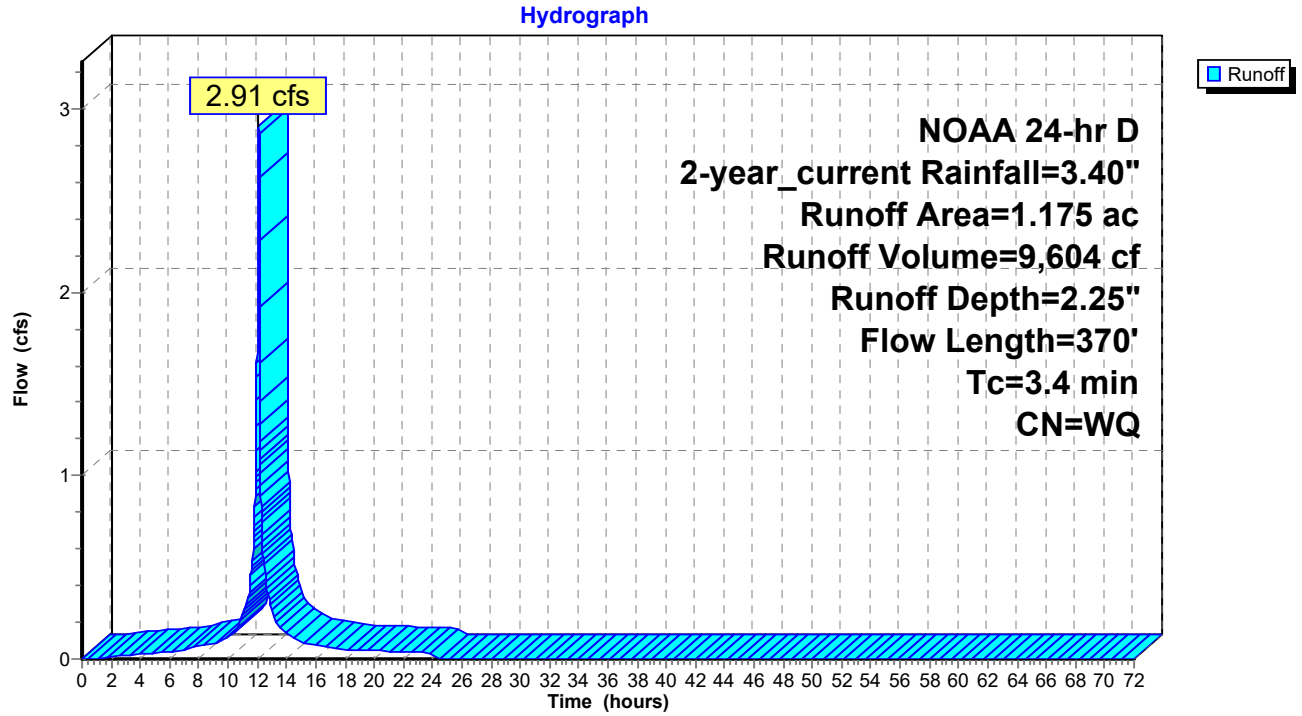
Runoff = 2.91 cfs @ 12.11 hrs, Volume= 9,604 cf, Depth= 2.25"
Routed to Reach 36R : DA2A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.223	98	gravel road
*	0.612	98	compost area
*	0.340	39	grass cover
	1.175		Weighted Average
	0.340	39	28.94% Pervious Area
	0.835	98	71.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0300	1.67		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.6	136	0.0302	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	134	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	370	Total			

Subcatchment 25S: Basin 2A East



Summary for Subcatchment 29S: Basin 2B West

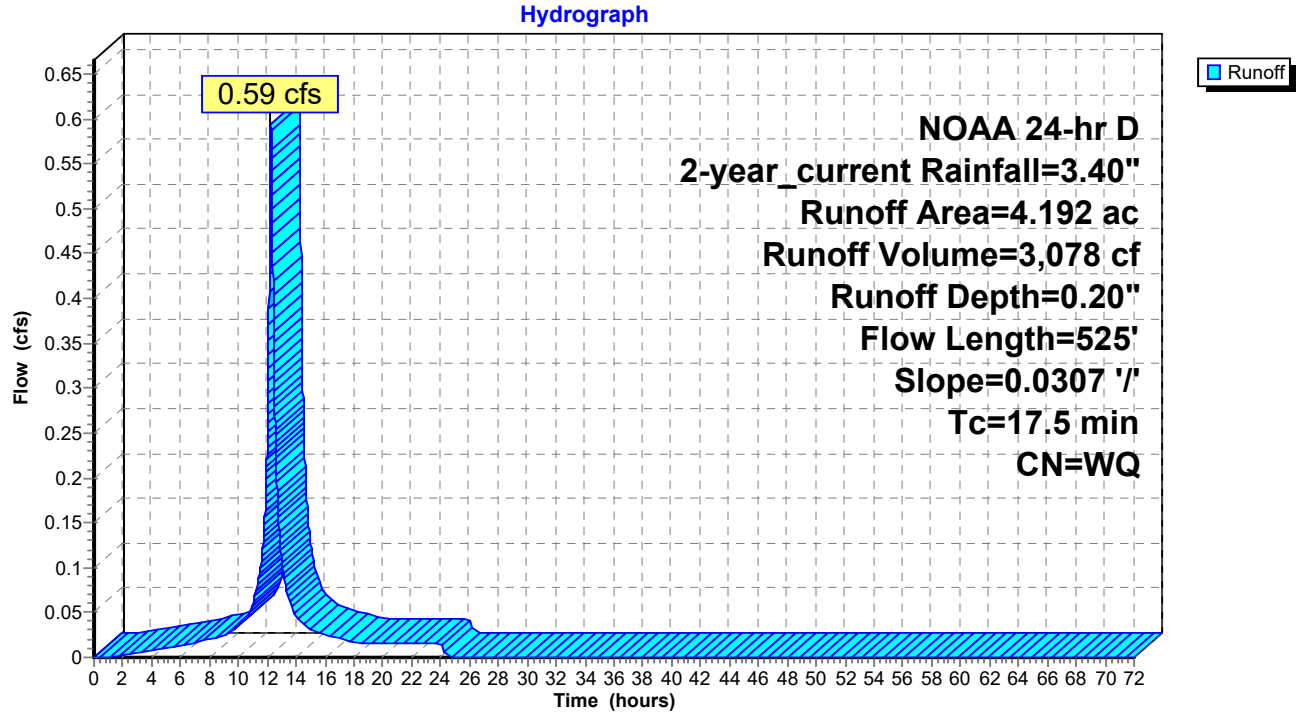
Runoff = 0.59 cfs @ 12.25 hrs, Volume= 3,078 cf, Depth= 0.20"
Routed to Reach 33R : DA2B West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
	3.930	39	>75% Grass cover, Good, HSG A
*	0.262	98	Solar
	4.192		Weighted Average
	3.930	39	93.75% Pervious Area
	0.262	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	100	0.0307	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.8	425	0.0307	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.5	525	Total			

Subcatchment 29S: Basin 2B West



Summary for Subcatchment 30S: Basin 1A Central

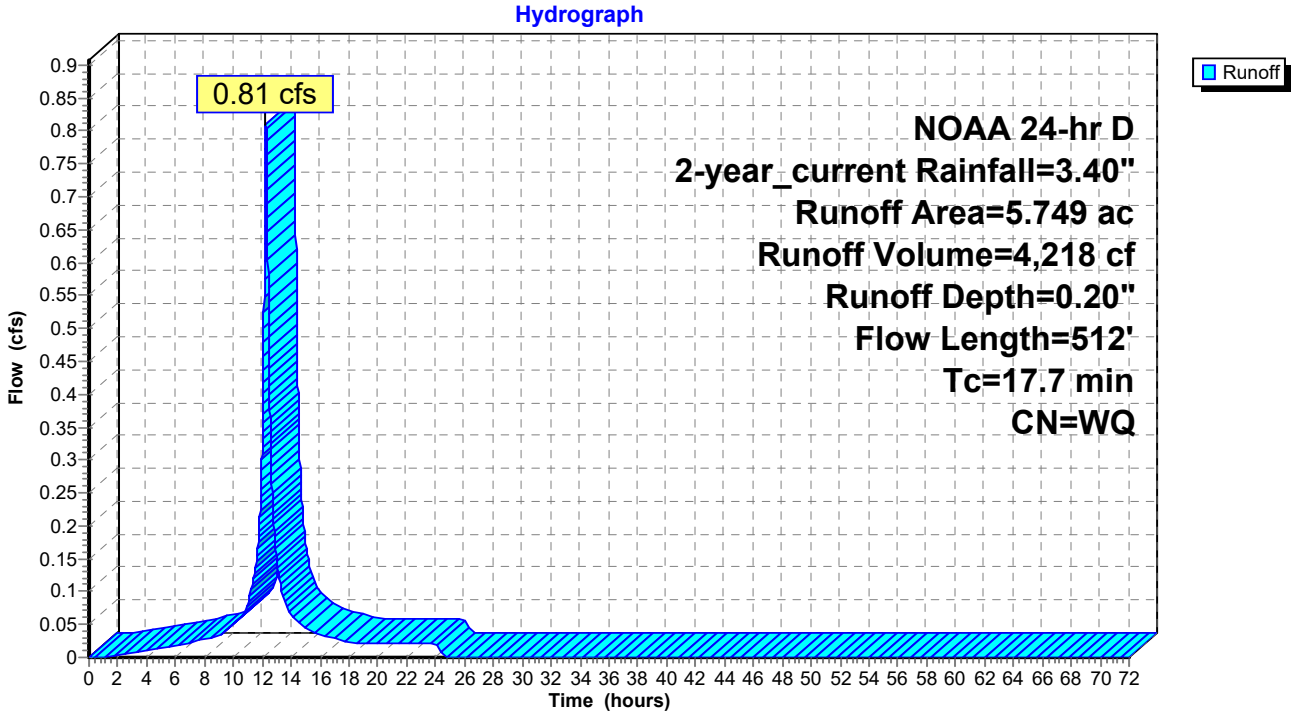
Runoff = 0.81 cfs @ 12.25 hrs, Volume= 4,218 cf, Depth= 0.20"
Routed to Reach 30R : DA1A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.359	98	solar
*	5.390	39	grass
	5.749		Weighted Average
	5.390	39	93.76% Pervious Area
	0.359	98	6.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.9	100	0.0291	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.8	412	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.7	512	Total			

Subcatchment 30S: Basin 1A Central



Summary for Subcatchment 31S: Basin 2B East

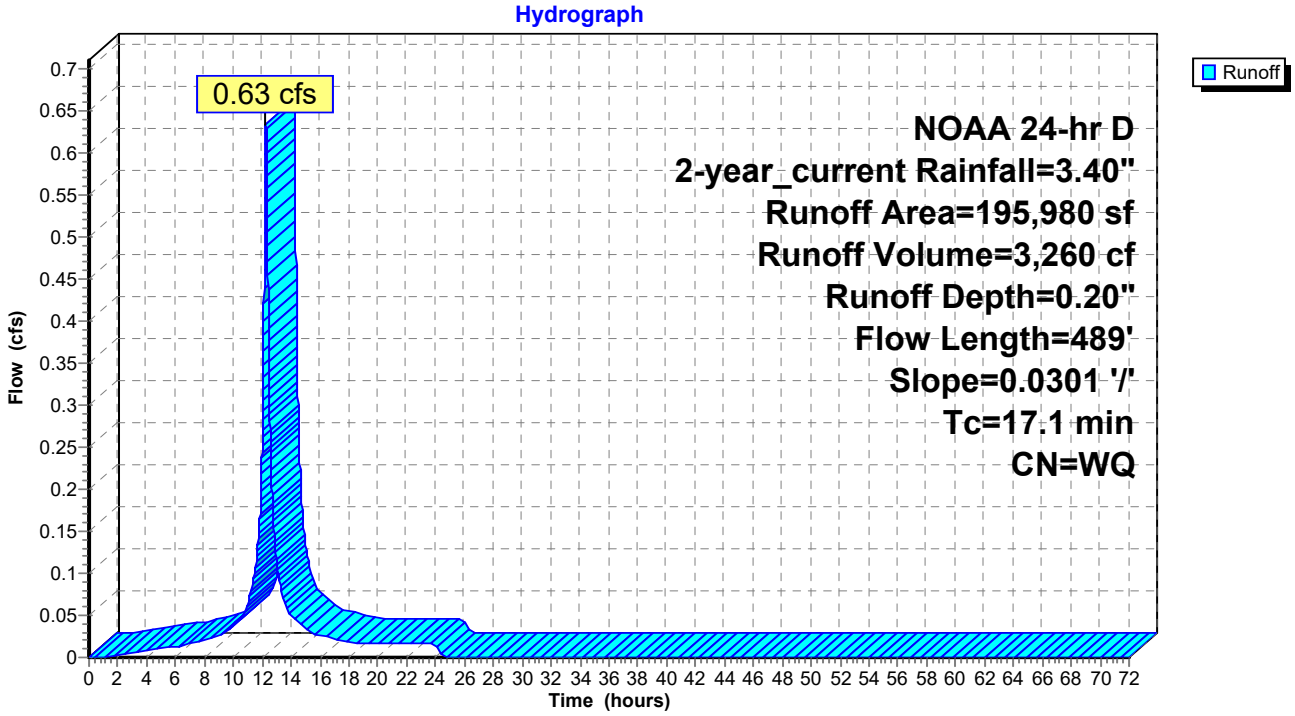
Runoff = 0.63 cfs @ 12.25 hrs, Volume= 3,260 cf, Depth= 0.20"
Routed to Reach 31R : DA2B East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (sf)	CN	Description
	183,896	39	>75% Grass cover, Good, HSG A
*	12,084	98	Solar
	195,980		Weighted Average
	183,896	39	93.83% Pervious Area
	12,084	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	100	0.0301	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.3	389	0.0301	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.1	489	Total			

Subcatchment 31S: Basin 2B East



Summary for Subcatchment 32S: undeveloped run on to forebay

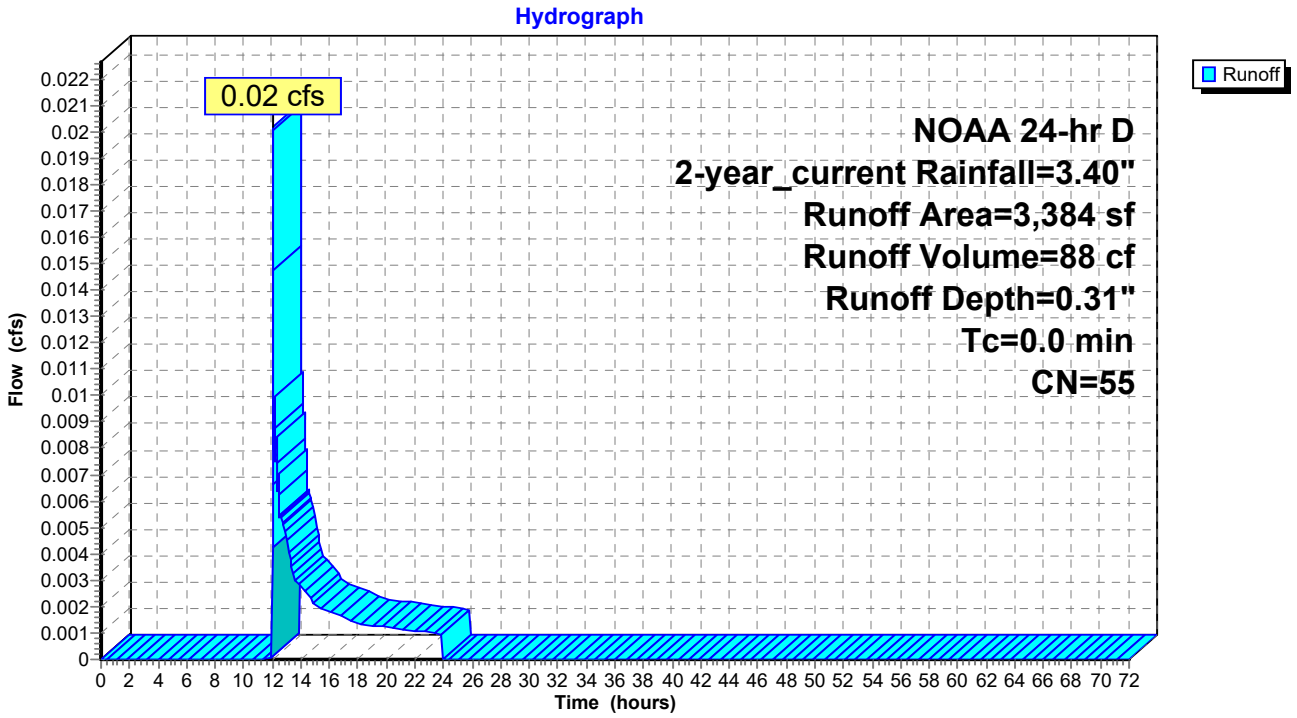
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.02 cfs @ 12.09 hrs, Volume= 88 cf, Depth= 0.31"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (sf)	CN	Description
*	3,384	55	
	3,384	55	100.00% Pervious Area

Subcatchment 32S: undeveloped run on to forebay



Summary for Subcatchment 33S: undeveloped run on to bioretention

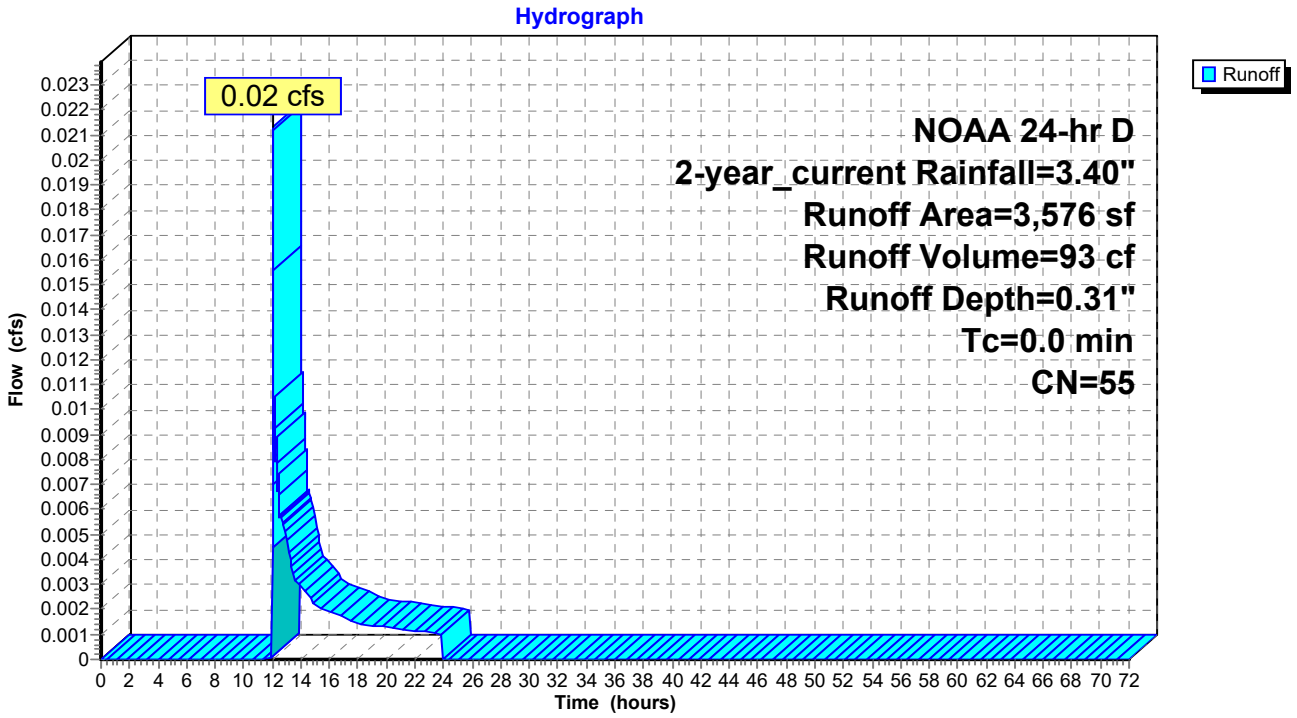
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.02 cfs @ 12.09 hrs, Volume= 93 cf, Depth= 0.31"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (sf)	CN	Description
*	3,576	55	
	3,576	55	100.00% Pervious Area

Subcatchment 33S: undeveloped run on to bioretention



Summary for Subcatchment 37S: Basin 3

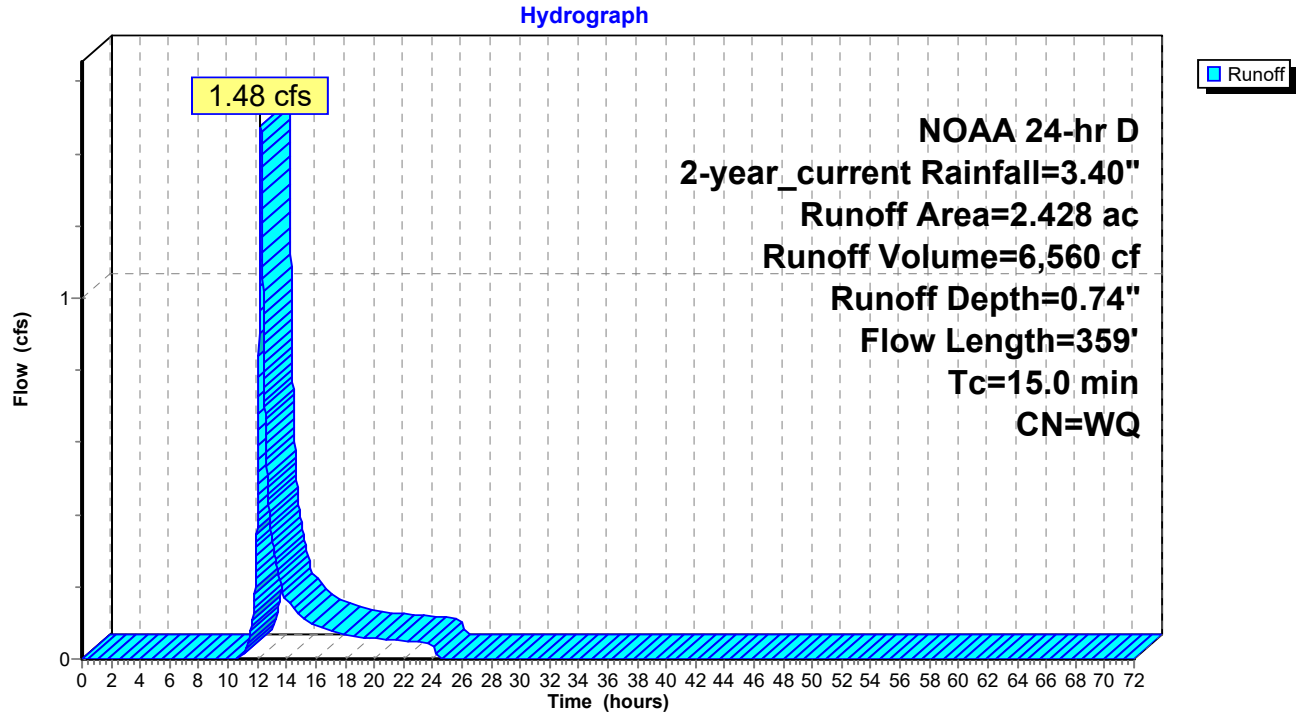
Runoff = 1.48 cfs @ 12.25 hrs, Volume= 6,560 cf, Depth= 0.74"
Routed to Reach 38R : DA3 Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.720	39	grass
*	1.708	72	sand
	2.428		Weighted Average
	2.428	62	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	35	0.5455	0.37		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
8.1	65	0.0321	0.13		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
3.4	107	0.0055	0.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	152	0.0066	1.31		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
15.0	359	Total			

Subcatchment 37S: Basin 3



Summary for Subcatchment 39S: Basin 1A East

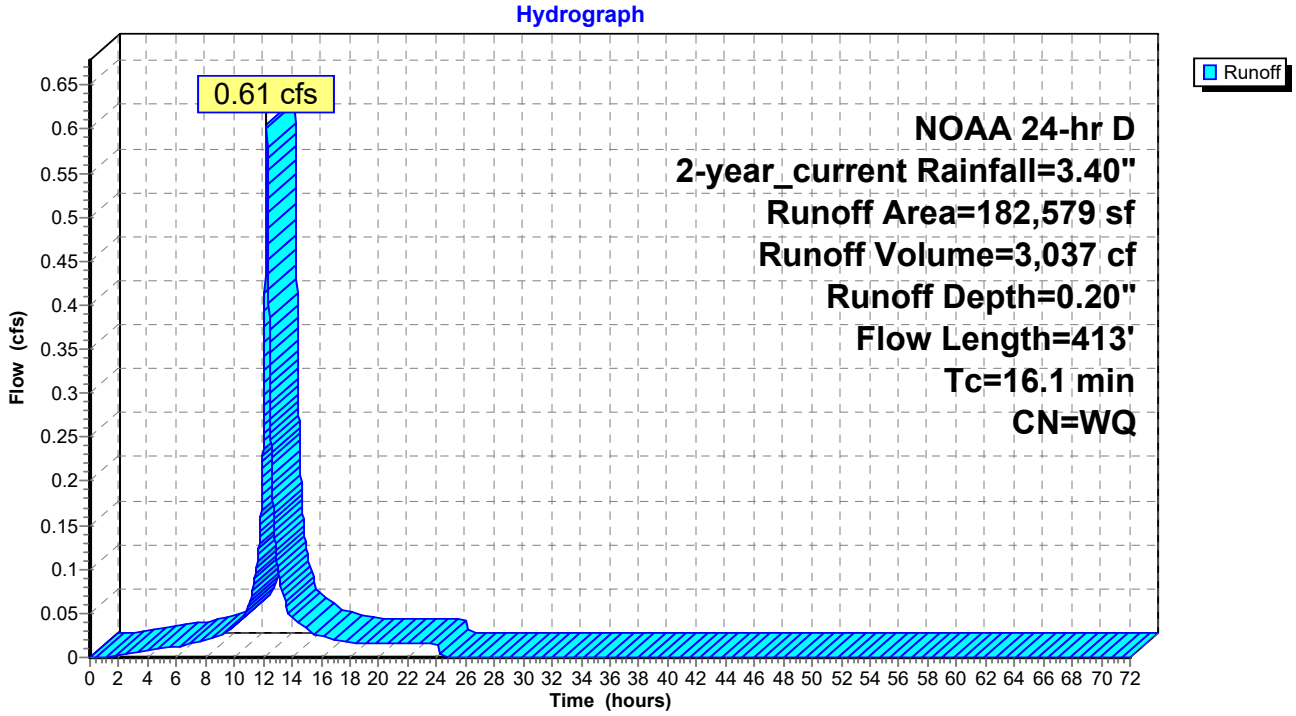
Runoff = 0.61 cfs @ 12.24 hrs, Volume= 3,037 cf, Depth= 0.20"
Routed to Reach 29R : DA1A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (sf)	CN	Description
	171,321	39	>75% Grass cover, Good, HSG A
*	11,258	98	Solar
	182,579		Weighted Average
	171,321	39	93.83% Pervious Area
	11,258	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	100	0.0299	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
4.3	313	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.1	413	Total			

Subcatchment 39S: Basin 1A East



Summary for Subcatchment 40S: Basin 1A West

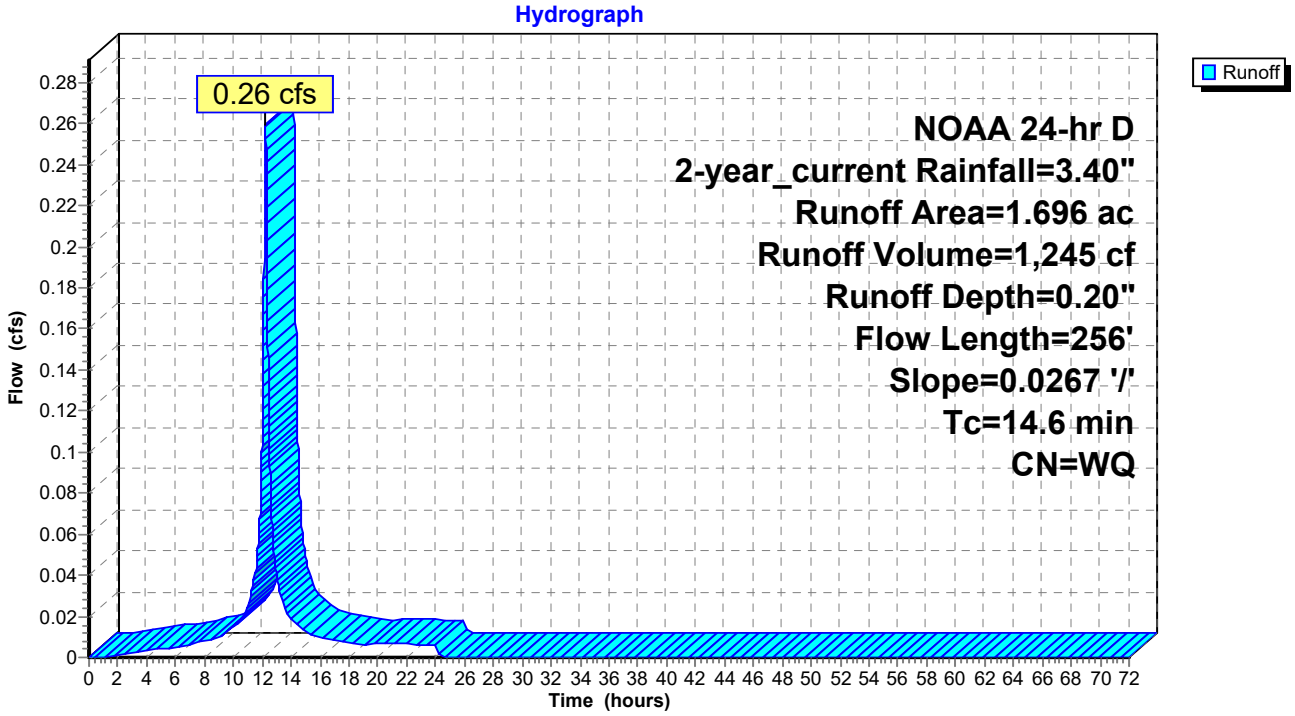
Runoff = 0.26 cfs @ 12.22 hrs, Volume= 1,245 cf, Depth= 0.20"
Routed to Reach 39R : DA 1A Central Swale A

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
	1.590	39	>75% Grass cover, Good, HSG A
*	0.106	98	Solar
	1.696		Weighted Average
	1.590	39	93.75% Pervious Area
	0.106	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.3	100	0.0267	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
2.3	156	0.0267	1.14		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	256	Total			

Subcatchment 40S: Basin 1A West



Summary for Subcatchment 41S: Basin 4 East

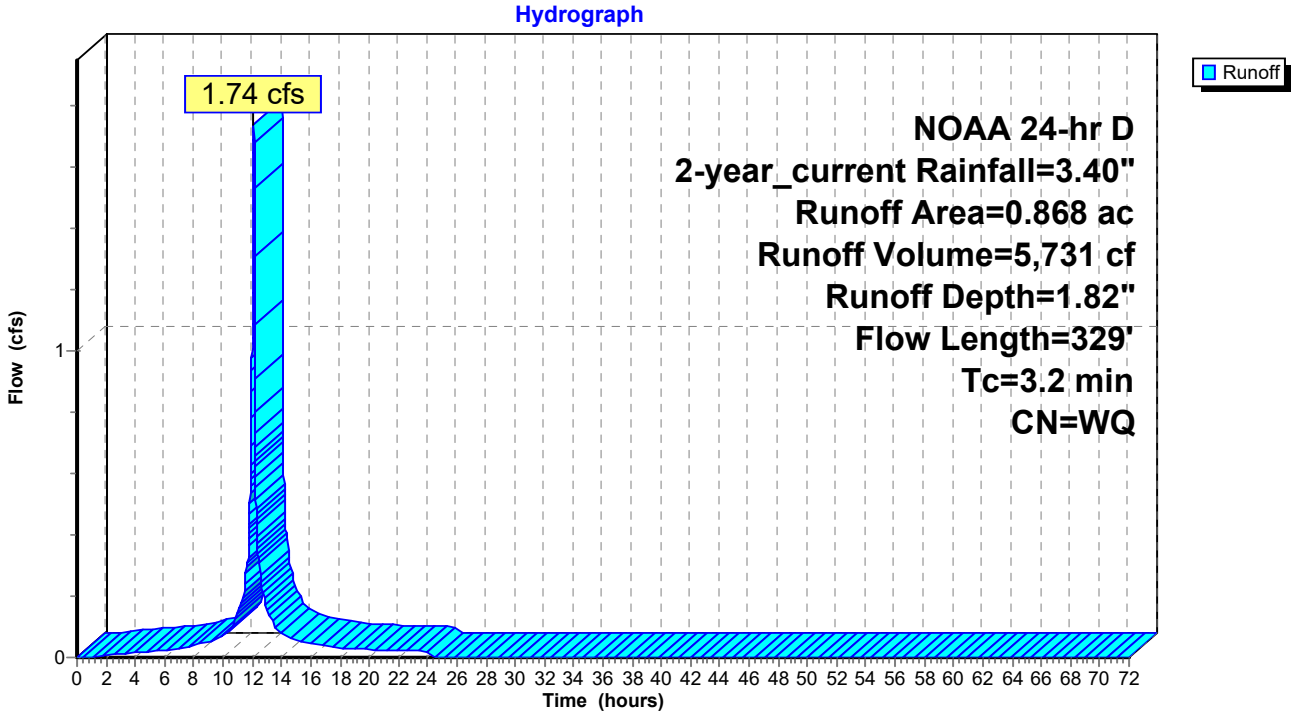
Runoff = 1.74 cfs @ 12.11 hrs, Volume= 5,731 cf, Depth= 1.82"
Routed to Reach 42R : DA4 East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.498	98	salt storage area
*	0.370	39	grass cover
	0.868		Weighted Average
	0.370	39	42.63% Pervious Area
	0.498	98	57.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0296	1.66		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.4	90	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	139	0.0325	1.26		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.2	329	Total			

Subcatchment 41S: Basin 4 East



Summary for Subcatchment 42S: Basin 4 West

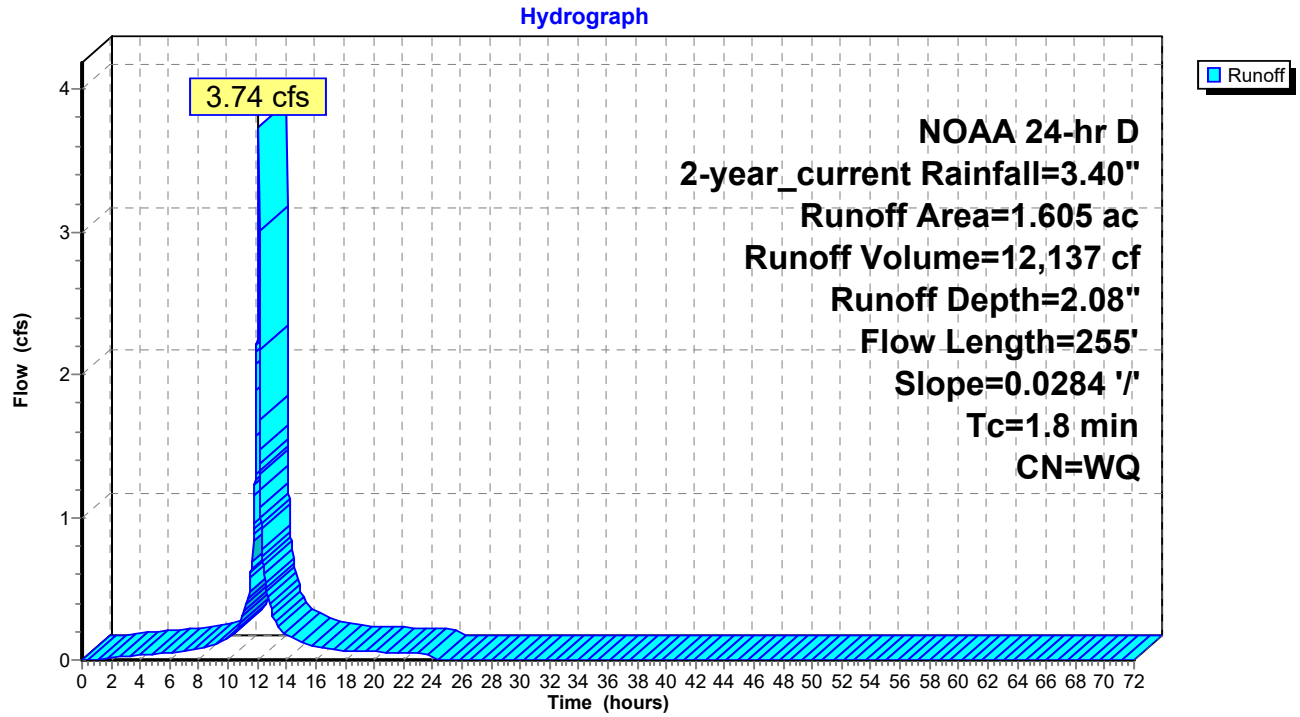
Runoff = 3.74 cfs @ 12.10 hrs, Volume= 12,137 cf, Depth= 2.08"
Routed to Reach 34R : DA4 West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.237	98	gravel road
*	0.818	98	compost/recycling area
*	0.550	39	grass cover
	1.605		Weighted Average
	0.550	39	34.27% Pervious Area
	1.055	98	65.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0284	1.63		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.8	155	0.0284	3.42		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	255	Total			

Subcatchment 42S: Basin 4 West



Summary for Subcatchment 46S: Direct Rainfall Basin 2A Bioretention

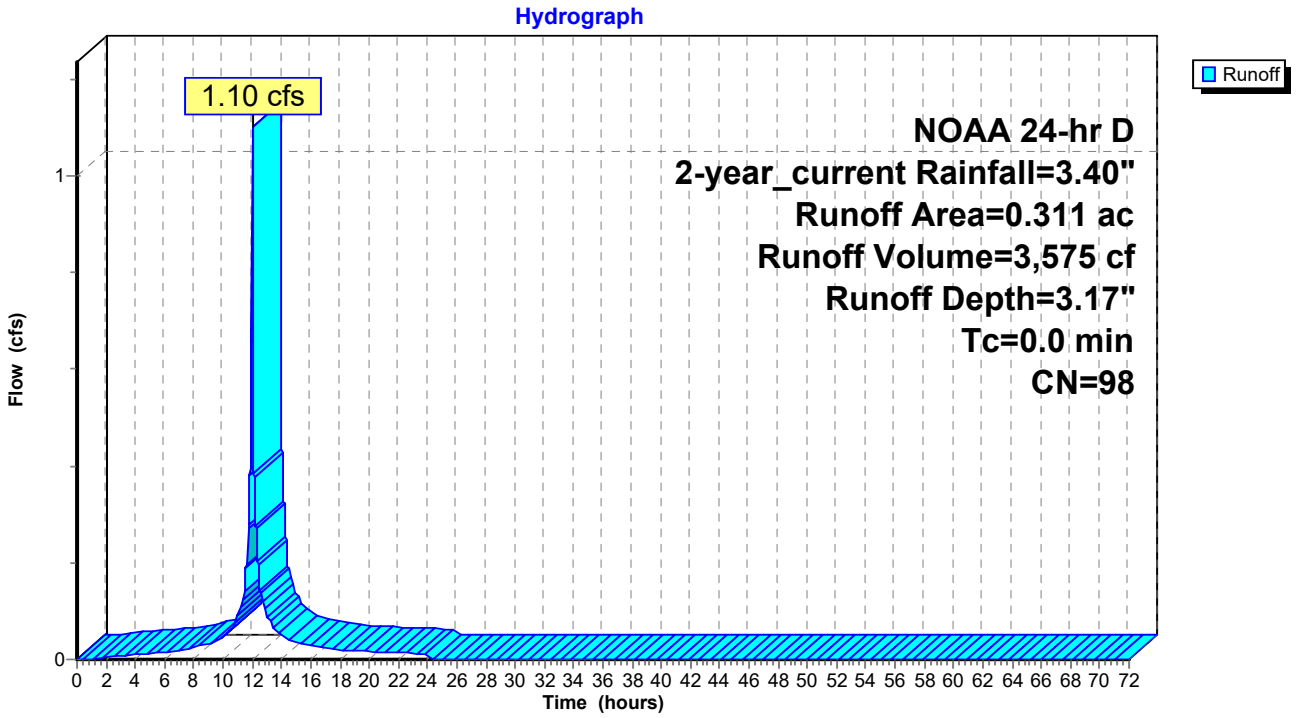
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.10 cfs @ 12.09 hrs, Volume= 3,575 cf, Depth= 3.17"
Routed to Pond 44P : Basin 2A Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.311	98	Direct Rainfall
	0.311	98	100.00% Impervious Area

Subcatchment 46S: Direct Rainfall Basin 2A Bioretention



Summary for Subcatchment 47S: Direct Rainfall Basin 2A Infiltration

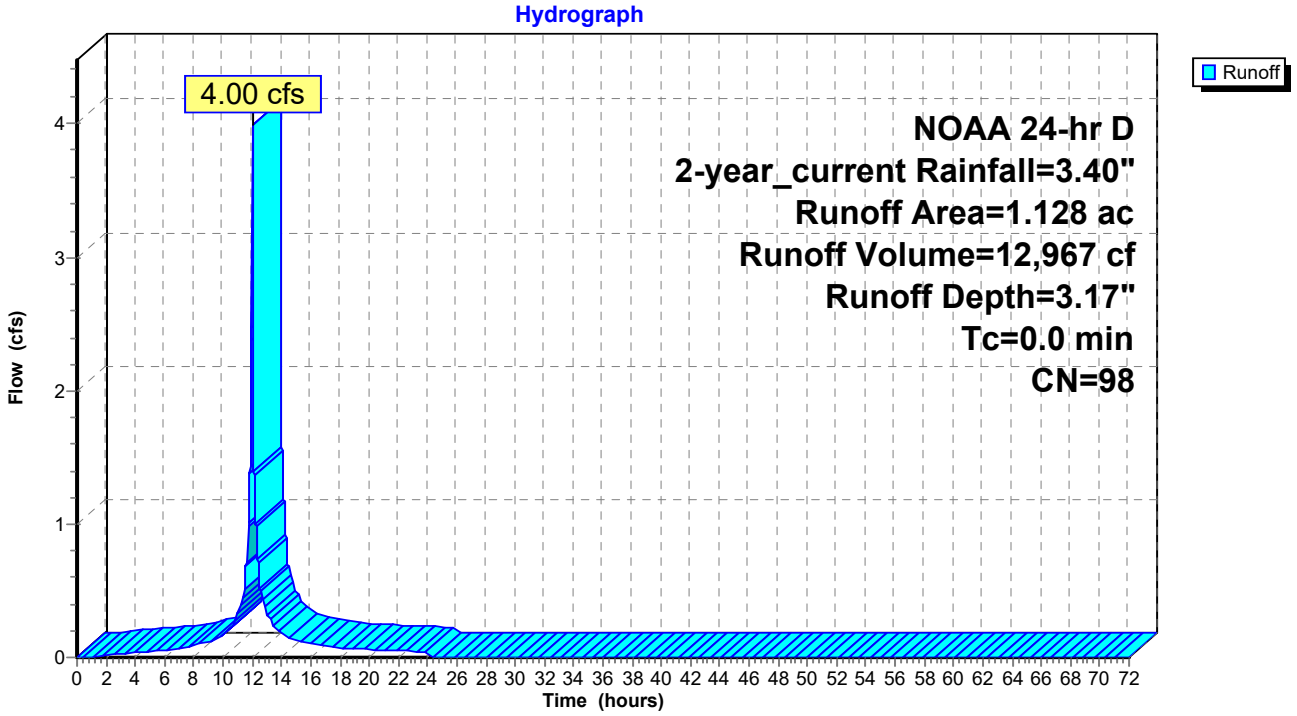
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 4.00 cfs @ 12.09 hrs, Volume= 12,967 cf, Depth= 3.17"
Routed to Pond 45P : Basin 2A Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	1.128	98	Direct Rainfall
	1.128	98	100.00% Impervious Area

Subcatchment 47S: Direct Rainfall Basin 2A Infiltration



Summary for Subcatchment 48S: Direct Rainfall Basin 1B Bioretention

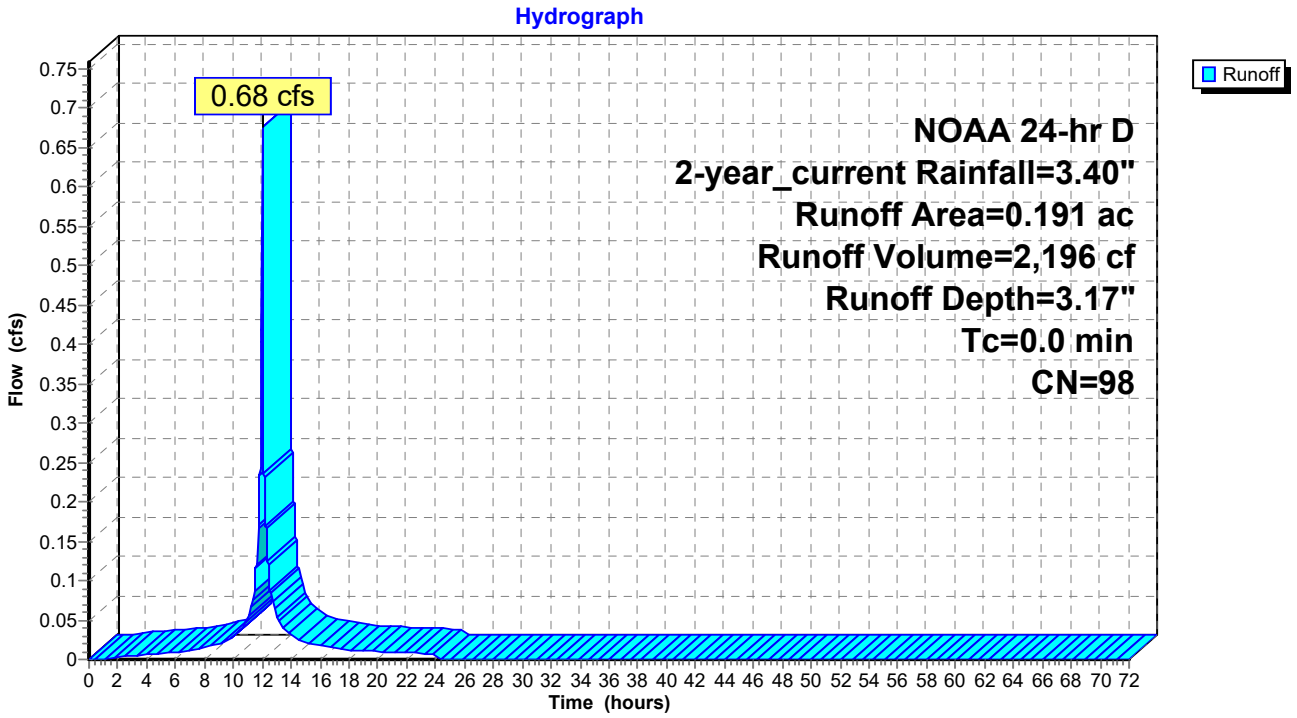
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.68 cfs @ 12.09 hrs, Volume= 2,196 cf, Depth= 3.17"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.191	98	direct rainfall onto bioretention
	0.191	98	100.00% Impervious Area

Subcatchment 48S: Direct Rainfall Basin 1B Bioretention



Summary for Subcatchment 49S: Direct Rainfall Basin 1A Infiltration

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

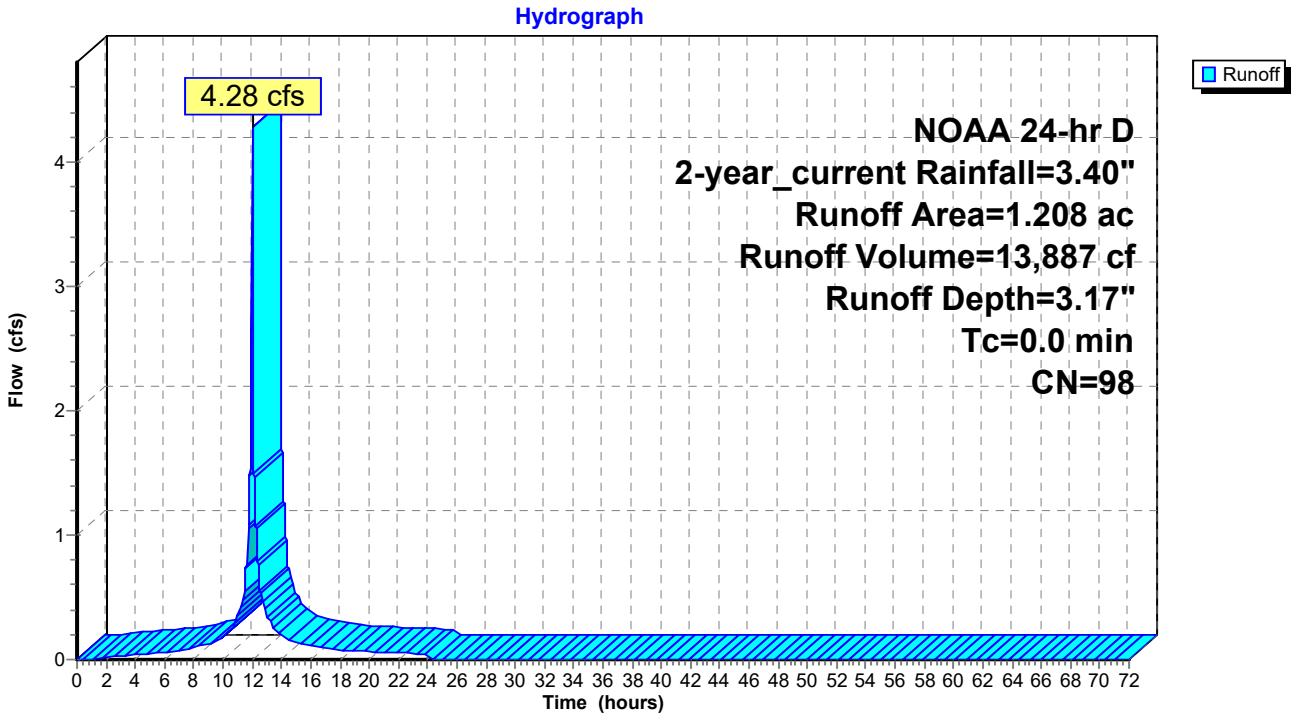
Runoff = 4.28 cfs @ 12.09 hrs, Volume= 13,887 cf, Depth= 3.17"
Routed to Pond 48P : Basin 1A Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	1.208	98	
	1.208	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					**Direct Entry,**

Subcatchment 49S: Direct Rainfall Basin 1A Infiltration



Summary for Subcatchment 50S: Direct Rainfall Basin 1B Infiltration

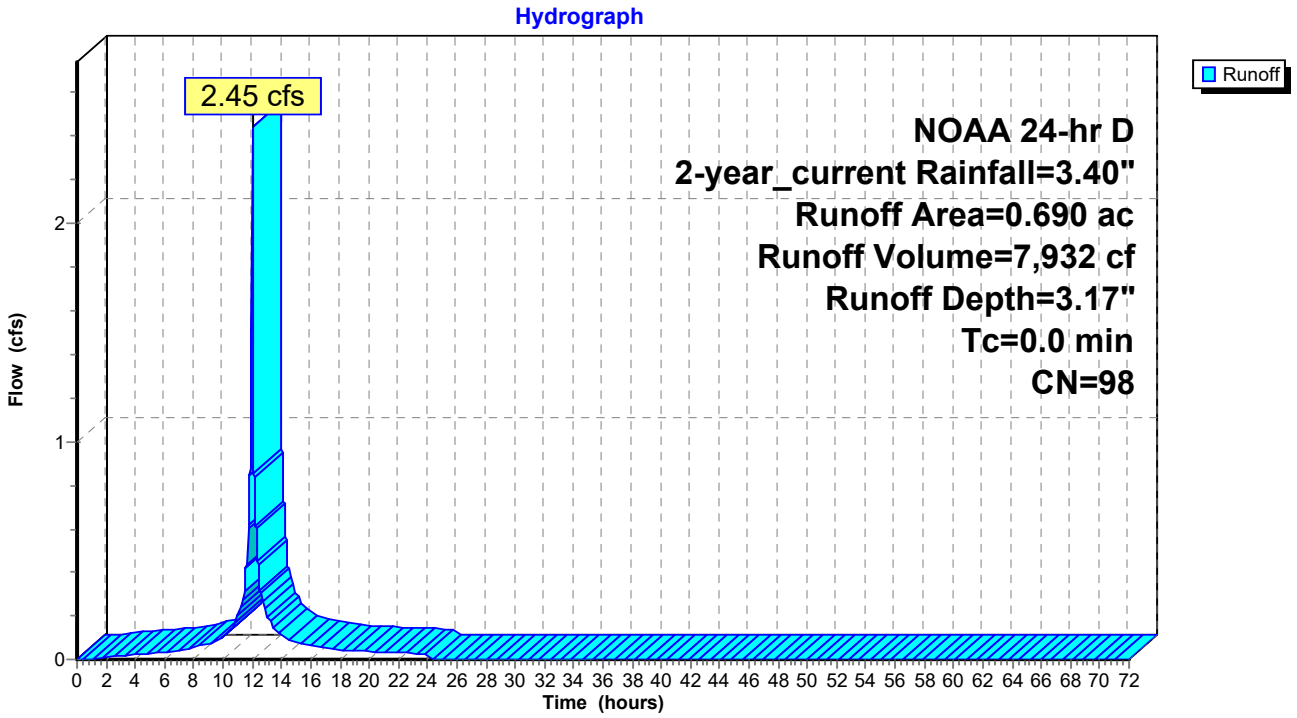
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.45 cfs @ 12.09 hrs, Volume= 7,932 cf, Depth= 3.17"
Routed to Pond 46P : Basin 1B Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.690	98	direct rainfall
	0.690	98	100.00% Impervious Area

Subcatchment 50S: Direct Rainfall Basin 1B Infiltration



Summary for Subcatchment 52S: Direct Rainfall Basin 1A Forebay

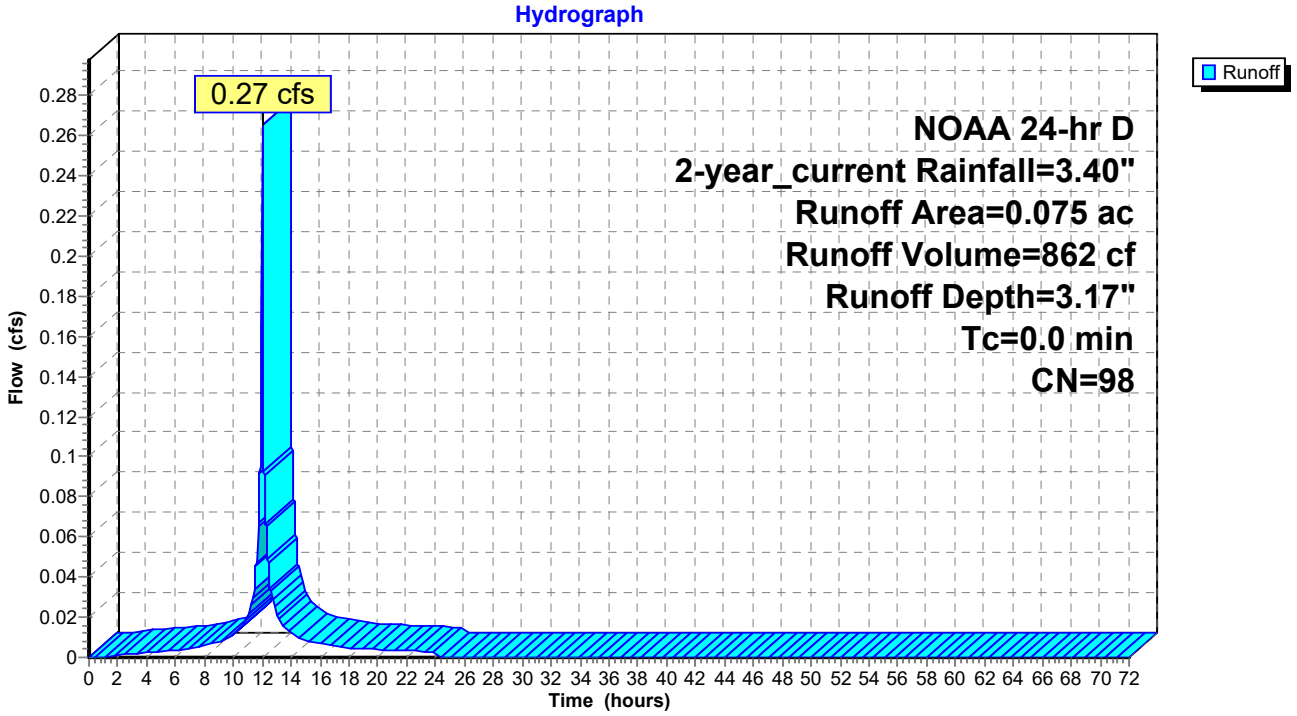
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 862 cf, Depth= 3.17"
Routed to Pond 15P : Basin 1A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.075	98	direct rainfall
	0.075	98	100.00% Impervious Area

Subcatchment 52S: Direct Rainfall Basin 1A Forebay



Summary for Subcatchment 54S: Direct Rainfall Basin 2A forebay

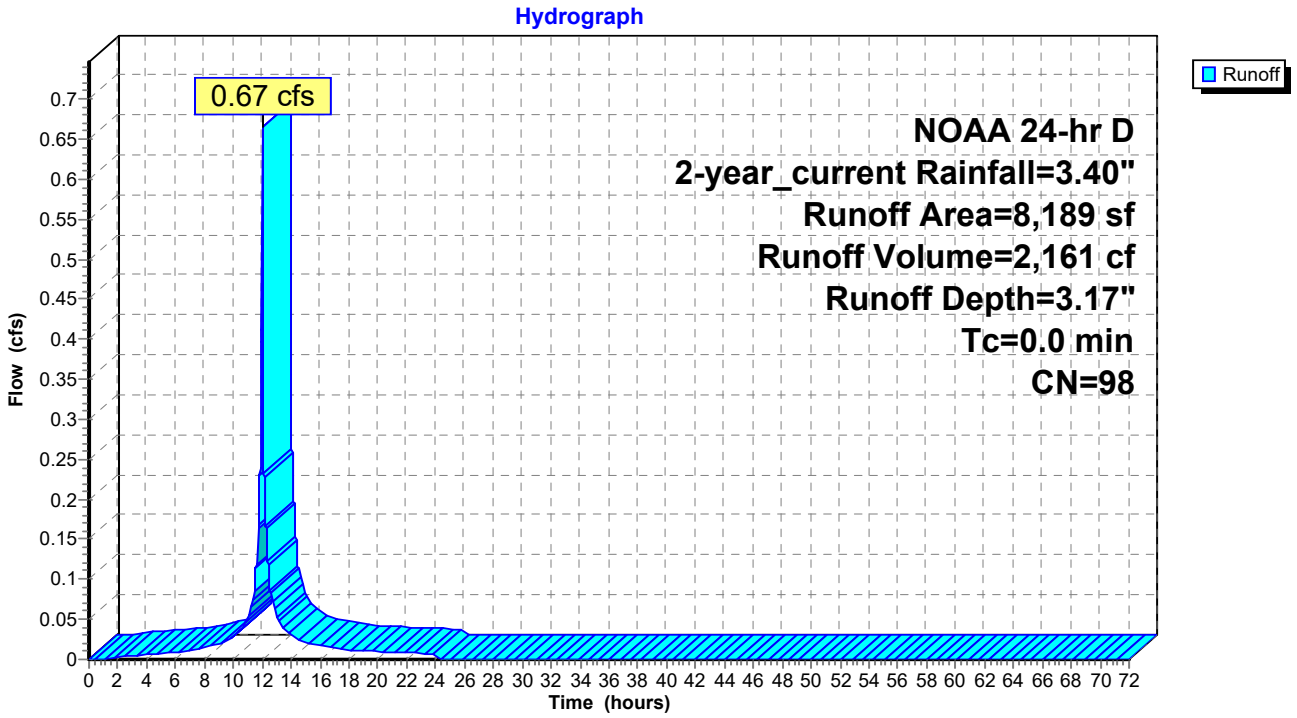
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.67 cfs @ 12.09 hrs, Volume= 2,161 cf, Depth= 3.17"
Routed to Pond 26P : Basin 2A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (sf)	CN	Description
*	8,189	98	direct rainfall to forebay
	8,189	98	100.00% Impervious Area

Subcatchment 54S: Direct Rainfall Basin 2A forebay



Summary for Subcatchment 55S: Direct Rainfall Basin 3 Forebay

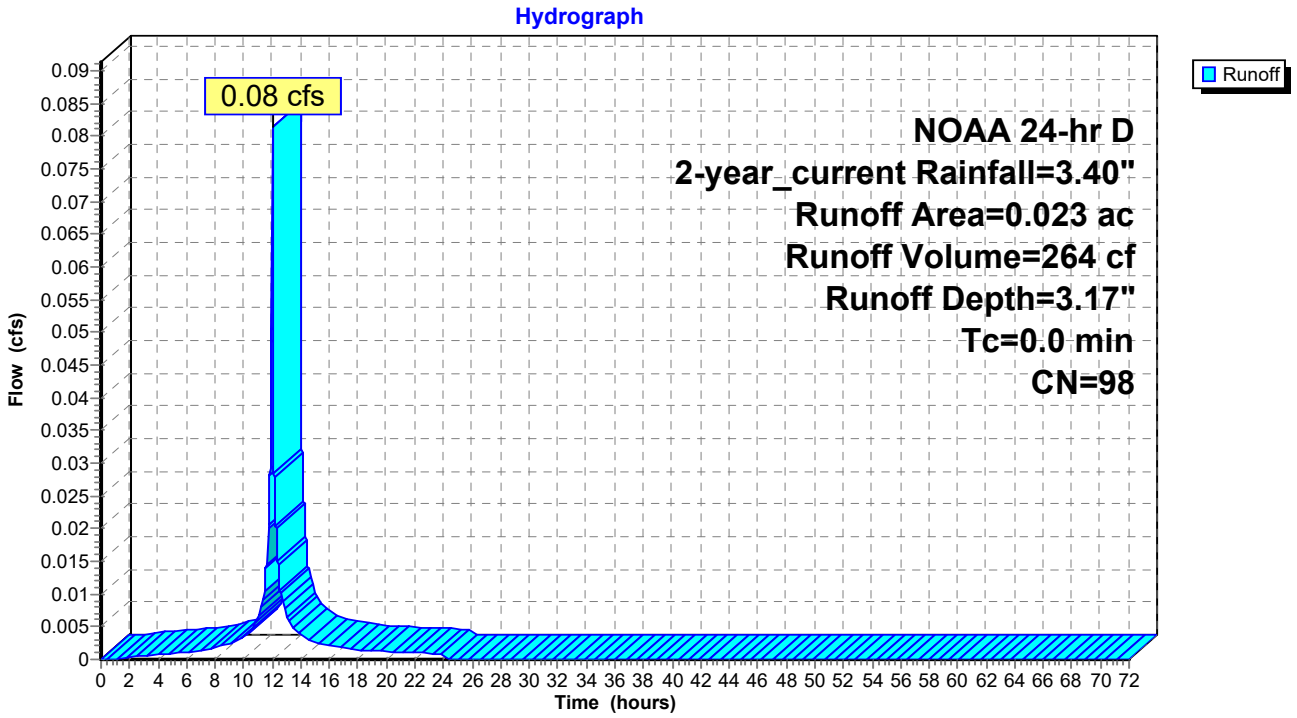
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.08 cfs @ 12.09 hrs, Volume= 264 cf, Depth= 3.17"
Routed to Pond 38P : Basin 3 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.023	98	direct rainfall
	0.023	98	100.00% Impervious Area

Subcatchment 55S: Direct Rainfall Basin 3 Forebay



Summary for Subcatchment 56S: Direct Rainfall Basin 1B Forebay

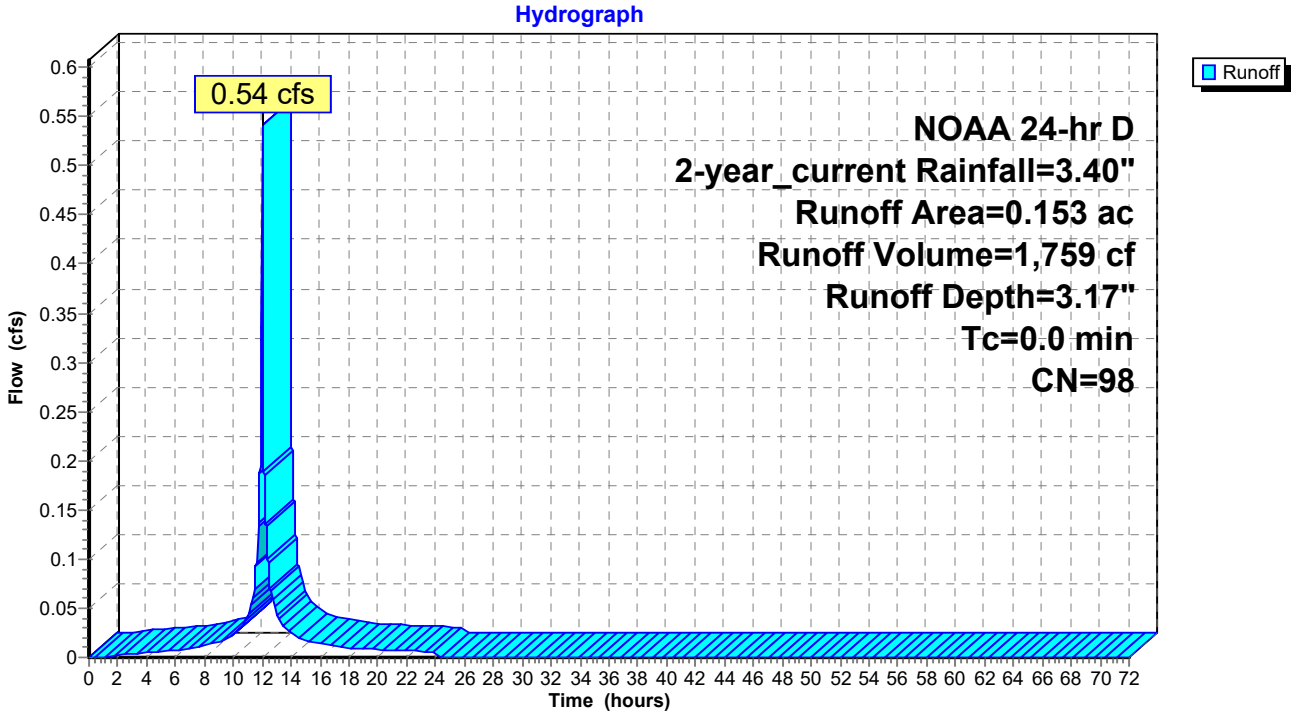
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 1,759 cf, Depth= 3.17"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.153	98	direct rainfall
	0.153	98	100.00% Impervious Area

Subcatchment 56S: Direct Rainfall Basin 1B Forebay



Summary for Subcatchment 57S: Direct Rainfall Basin 4 Forebay

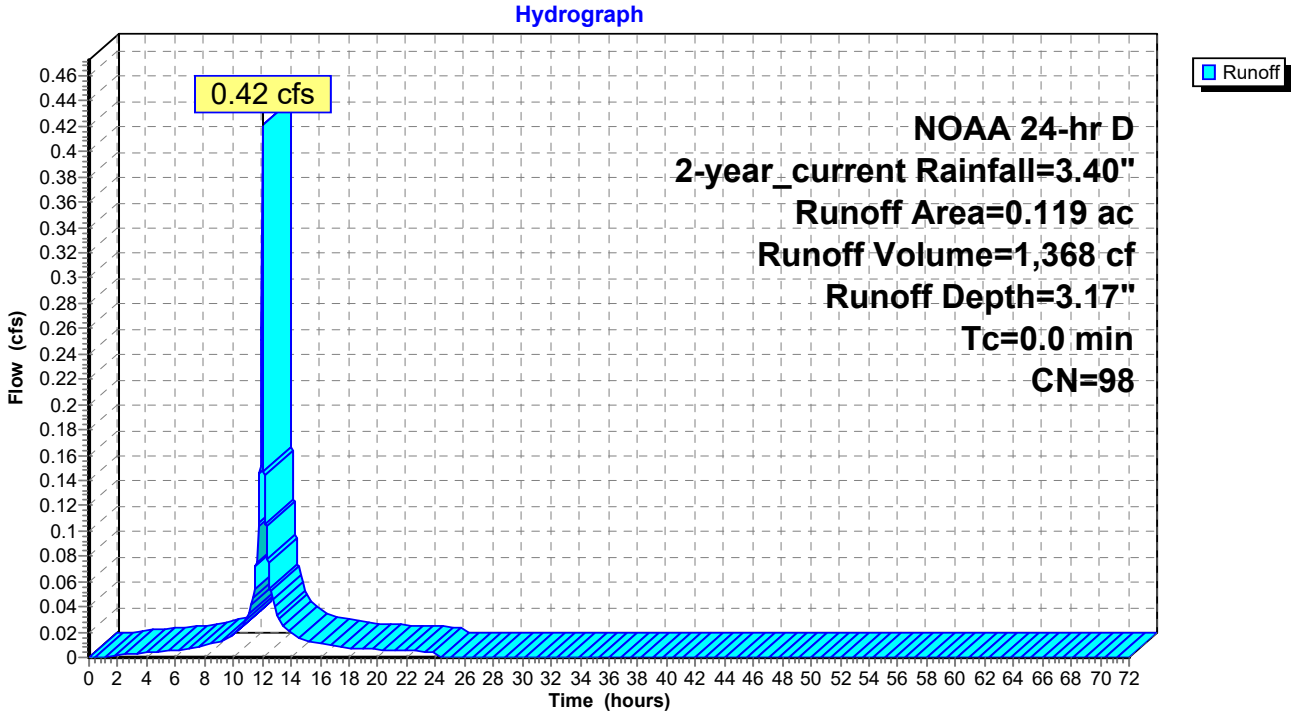
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,368 cf, Depth= 3.17"
Routed to Pond 39P : Basin 4 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.119	98	direct rainfall
	0.119	98	100.00% Impervious Area

Subcatchment 57S: Direct Rainfall Basin 4 Forebay



Summary for Subcatchment 58S: Direct forest undeveloped runoff to basin

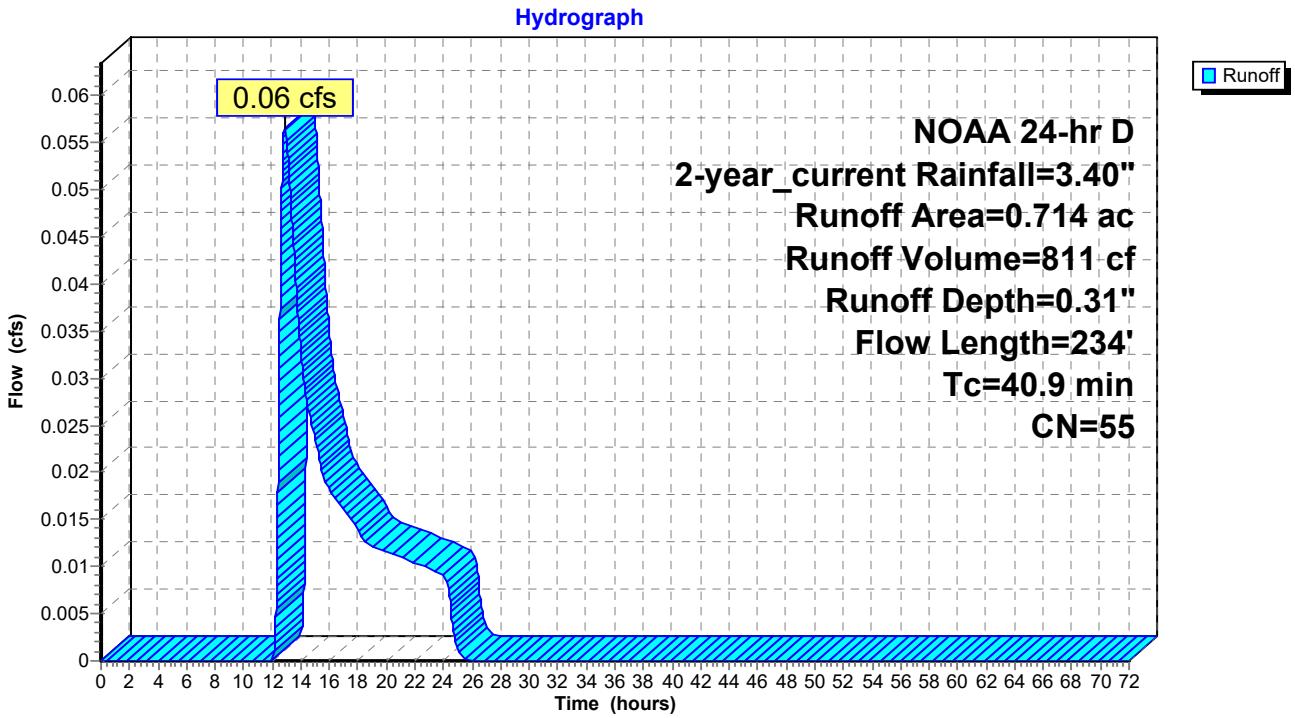
Runoff = 0.06 cfs @ 12.86 hrs, Volume= 811 cf, Depth= 0.31"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

Area (ac)	CN	Description
0.714	55	Woods, Good, HSG B
0.714	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	100	0.0200	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.40"
4.6	134	0.0370	0.48		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
40.9	234	Total			

Subcatchment 58S: Direct forest undeveloped runoff to basin



Summary for Subcatchment 59S: Direct Rainfall Basin 4 Infiltration

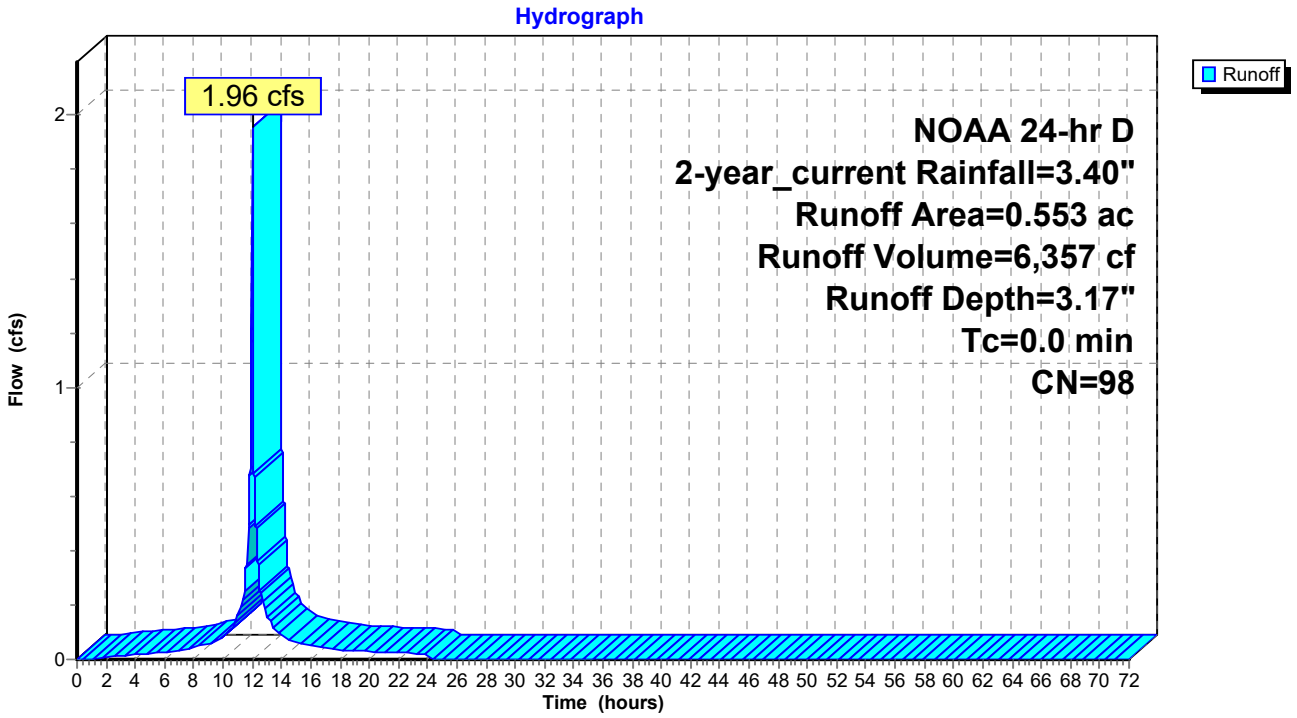
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.96 cfs @ 12.09 hrs, Volume= 6,357 cf, Depth= 3.17"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.553	98	direct rainfall
	0.553	98	100.00% Impervious Area

Subcatchment 59S: Direct Rainfall Basin 4 Infiltration



Summary for Subcatchment 62S: Direct Rainfall Basin 3 Infiltration

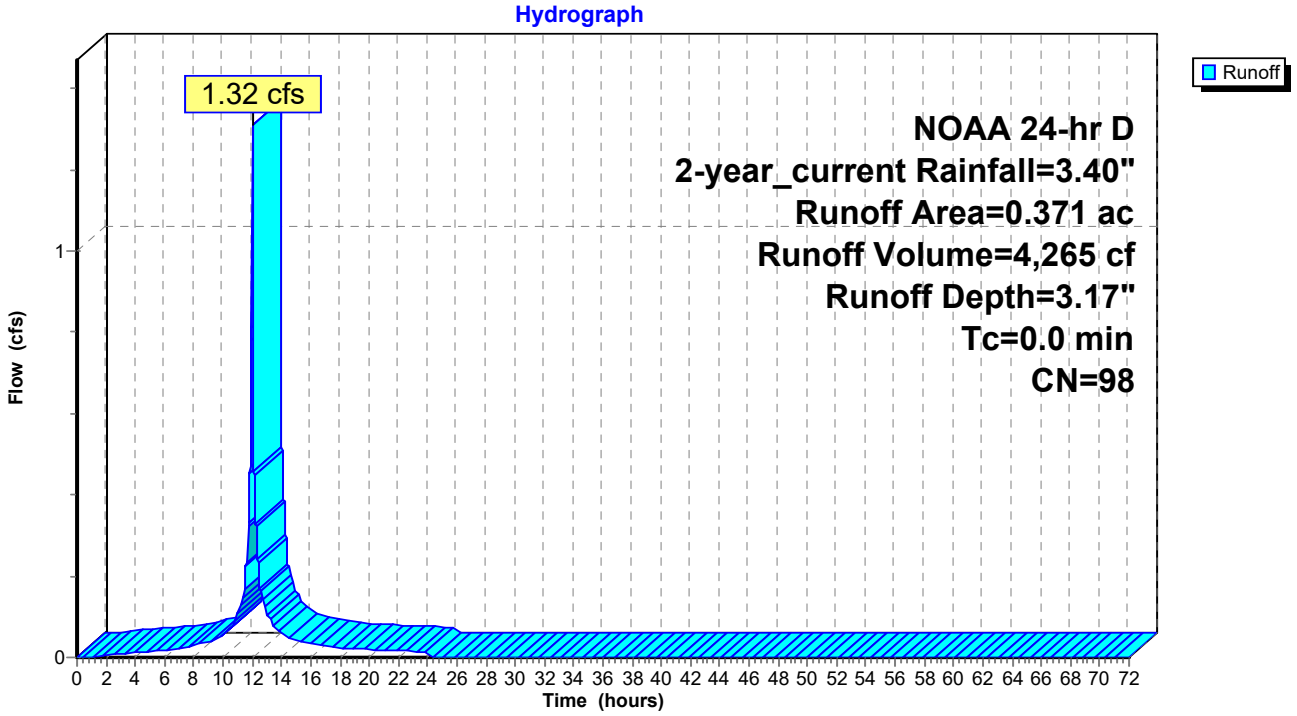
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.32 cfs @ 12.09 hrs, Volume= 4,265 cf, Depth= 3.17"
Routed to Pond 61P : Basin 3 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.371	98	
	0.371	98	100.00% Impervious Area

Subcatchment 62S: Direct Rainfall Basin 3 Infiltration



Summary for Subcatchment 65S: Direct Rainfall Basin 3 Bioretention

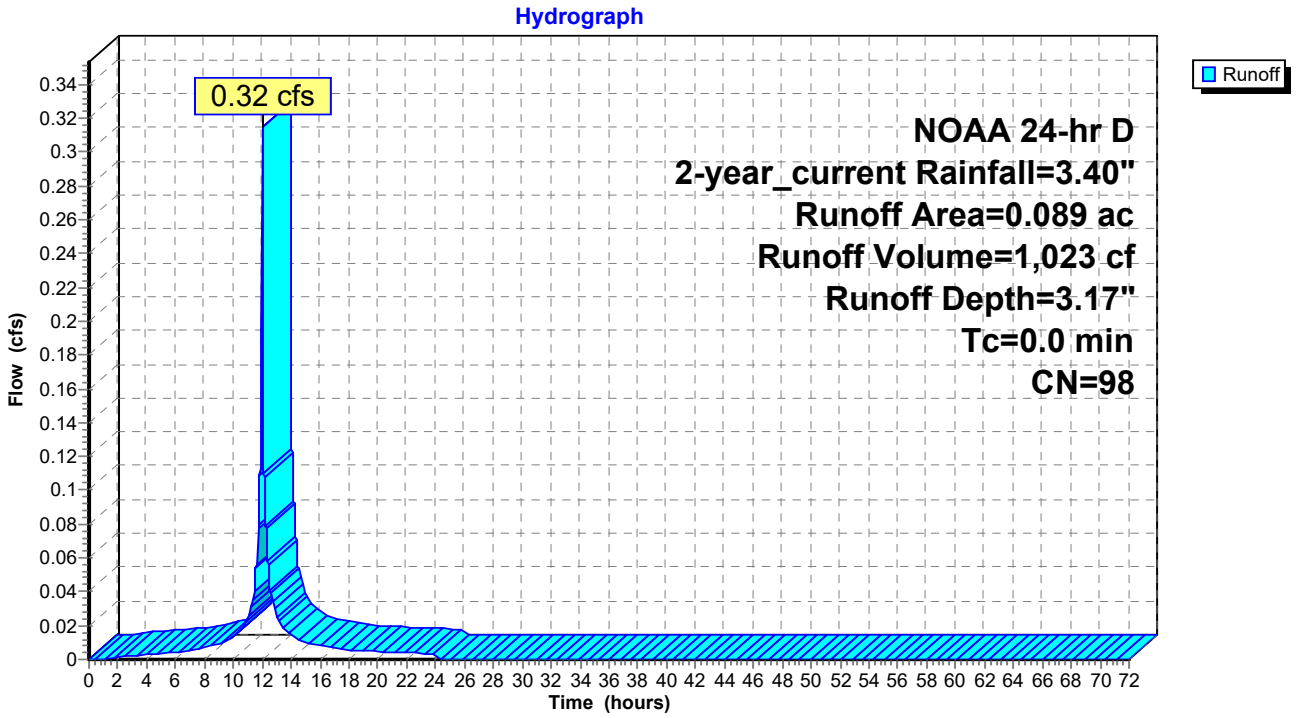
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 1,023 cf, Depth= 3.17"
Routed to Pond 60P : Basin 3 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.089	98	
	0.089	98	100.00% Impervious Area

Subcatchment 65S: Direct Rainfall Basin 3 Bioretention



Summary for Subcatchment 69S: Direct Rainfall Basin 2B Forebay

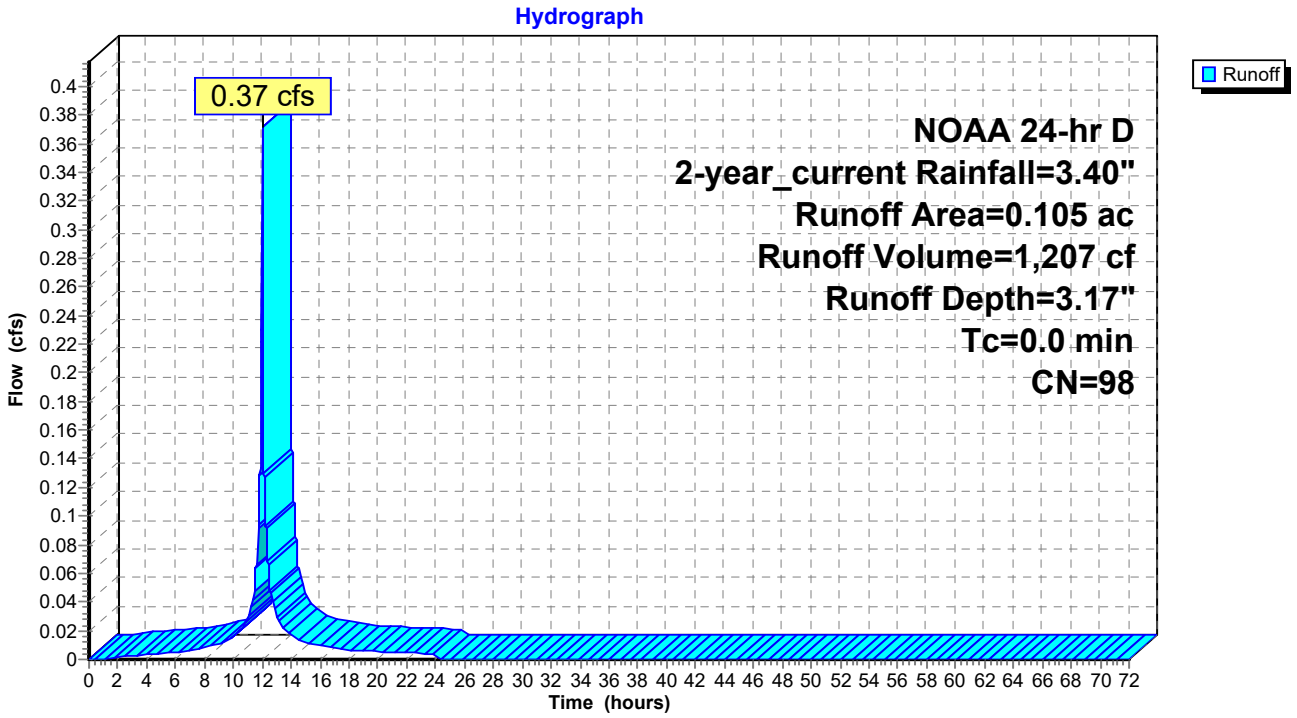
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,207 cf, Depth= 3.17"
Routed to Pond 65P : Basin 2B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.105	98	direct rainfall
	0.105	98	100.00% Impervious Area

Subcatchment 69S: Direct Rainfall Basin 2B Forebay



Summary for Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin

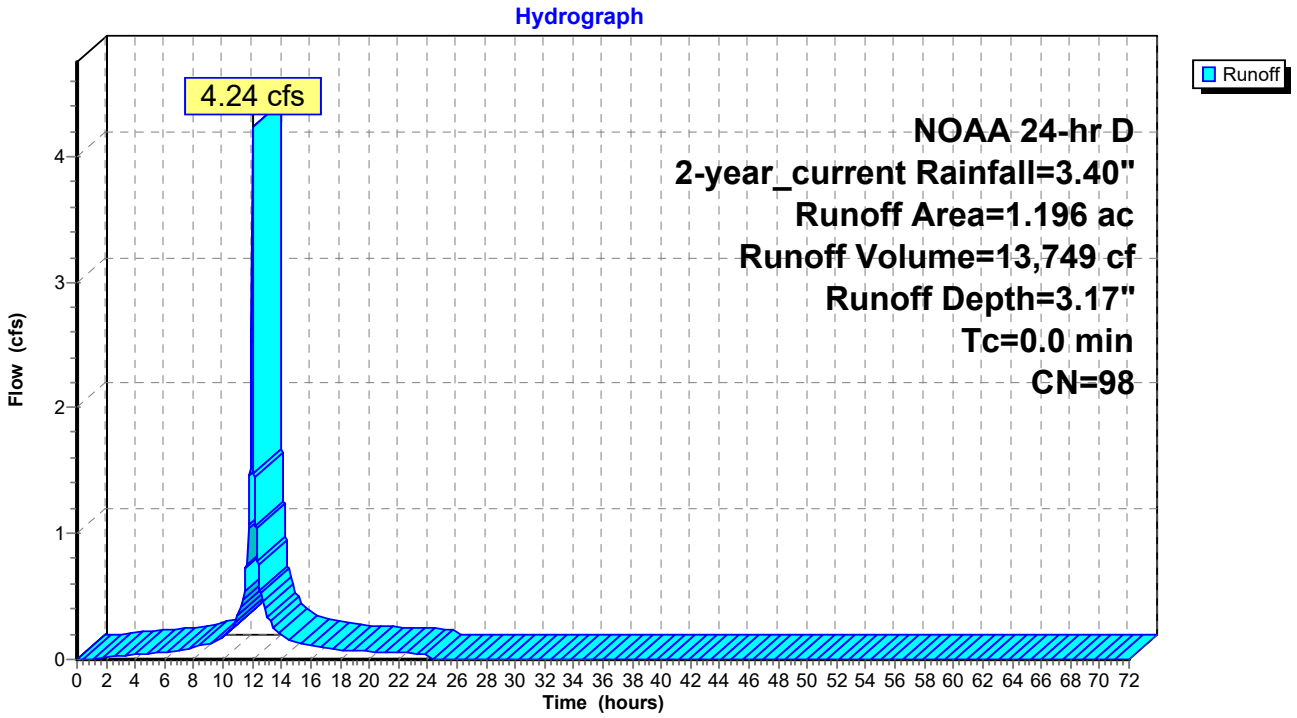
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 4.24 cfs @ 12.09 hrs, Volume= 13,749 cf, Depth= 3.17"
Routed to Pond 66P : Basin 2B Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	1.196	98	direct rainfall
	1.196	98	100.00% Impervious Area

Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin



Summary for Subcatchment 71S: Direct Rainfall to Bioretention

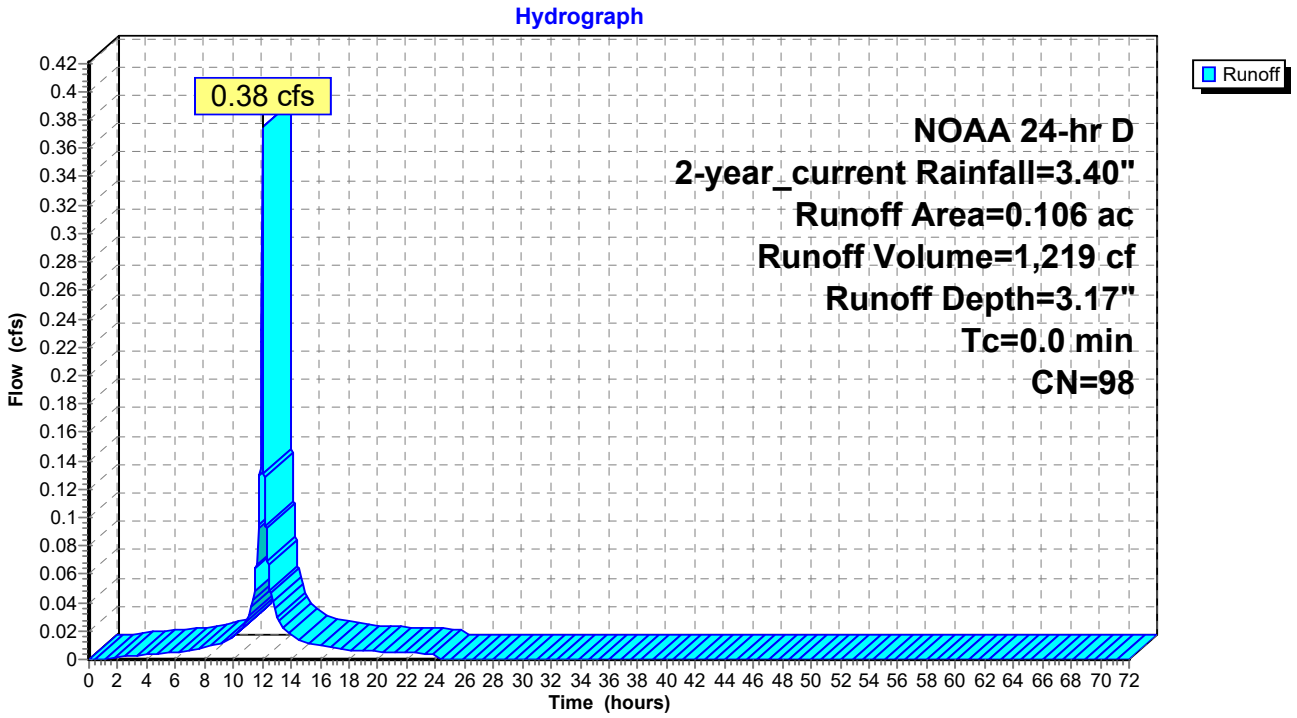
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 1,219 cf, Depth= 3.17"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.106	98	direct rainfall to bioretention
	0.106	98	100.00% Impervious Area

Subcatchment 71S: Direct Rainfall to Bioretention



Summary for Subcatchment 74S: Direct forest runoff to infiltration basin

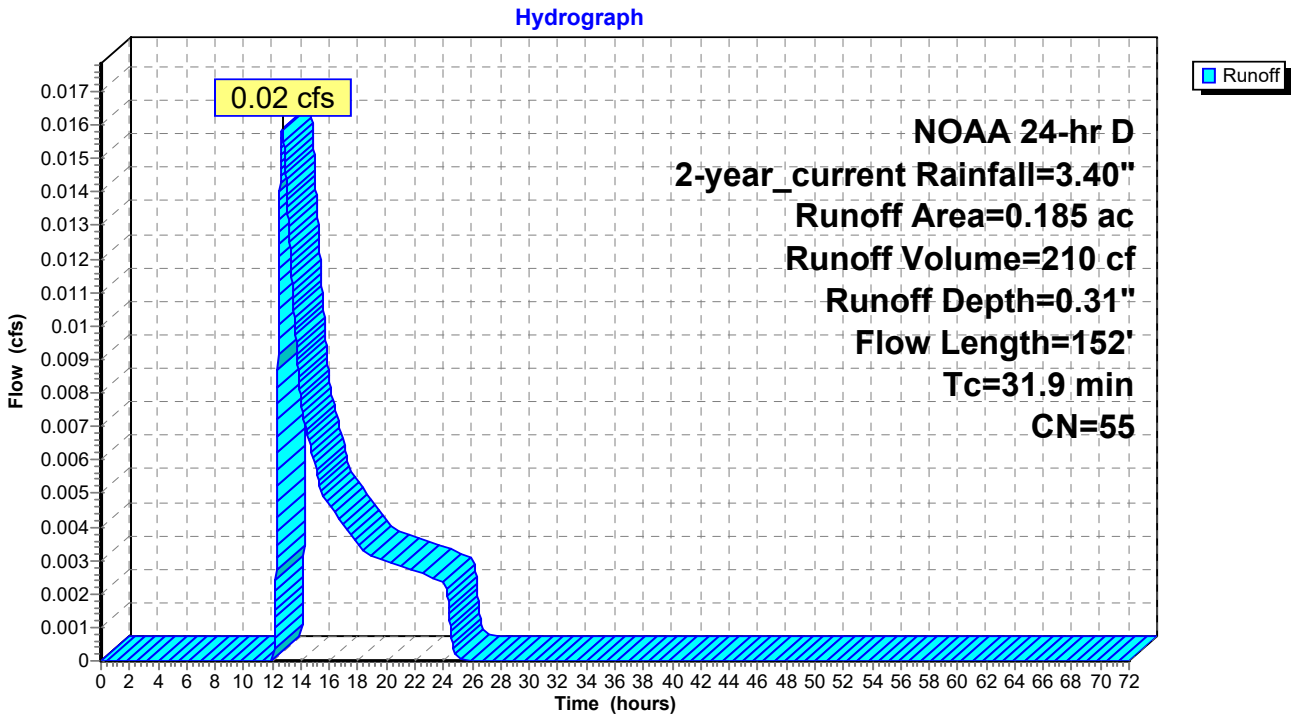
Runoff = 0.02 cfs @ 12.69 hrs, Volume= 210 cf, Depth= 0.31"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

Area (ac)	CN	Description
0.185	55	Woods, Good, HSG B
0.185	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.8	100	0.0300	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.40"
1.1	52	0.1000	0.79		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
31.9	152	Total			

Subcatchment 74S: Direct forest runoff to infiltration basin



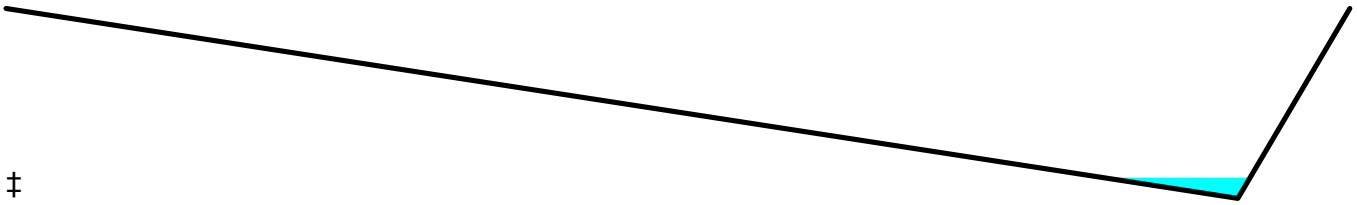
Summary for Reach 29R: DA1A East Swale

Inflow Area = 182,579 sf, 6.17% Impervious, Inflow Depth = 0.20" for 2-year_current event
Inflow = 0.61 cfs @ 12.24 hrs, Volume= 3,037 cf
Outflow = 0.31 cfs @ 13.10 hrs, Volume= 3,037 cf, Atten= 49%, Lag= 51.8 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.36 fps, Min. Travel Time= 38.5 min
Avg. Velocity = 0.14 fps, Avg. Travel Time= 98.9 min

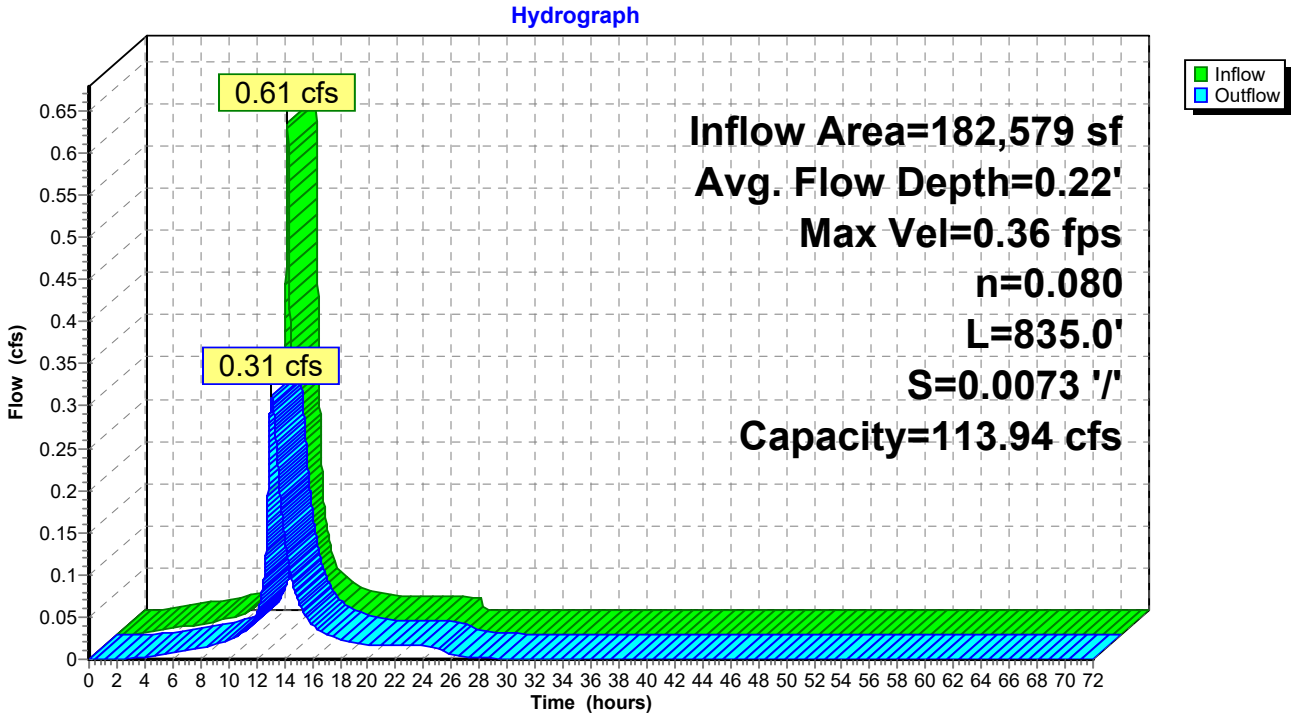
Peak Storage= 718 cf @ 12.46 hrs
Average Depth at Peak Storage= 0.22' , Surface Width= 7.86'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 113.94 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 835.0' Slope= 0.0073 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 29R: DA1A East Swale



Summary for Reach 30R: DA1A West Swale

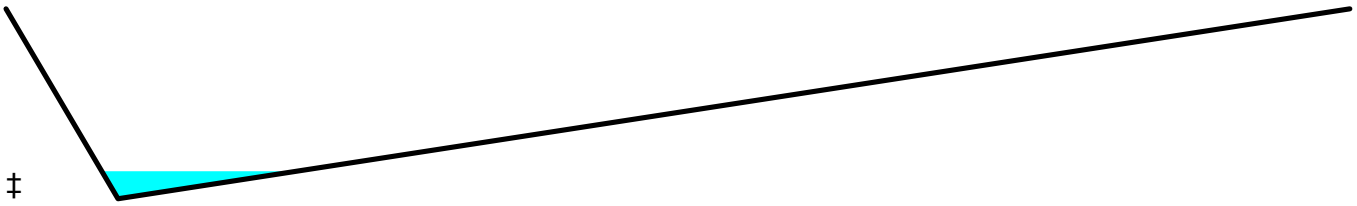
[62] Hint: Exceeded Reach 41R OUTLET depth by 0.14' @ 12.40 hrs

Inflow Area = 324,304 sf, 6.25% Impervious, Inflow Depth = 0.20" for 2-year_current event
Inflow = 0.84 cfs @ 12.25 hrs, Volume= 5,463 cf
Outflow = 0.48 cfs @ 13.05 hrs, Volume= 5,463 cf, Atten= 43%, Lag= 47.8 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.32 fps, Min. Travel Time= 34.2 min
Avg. Velocity = 0.12 fps, Avg. Travel Time= 92.9 min

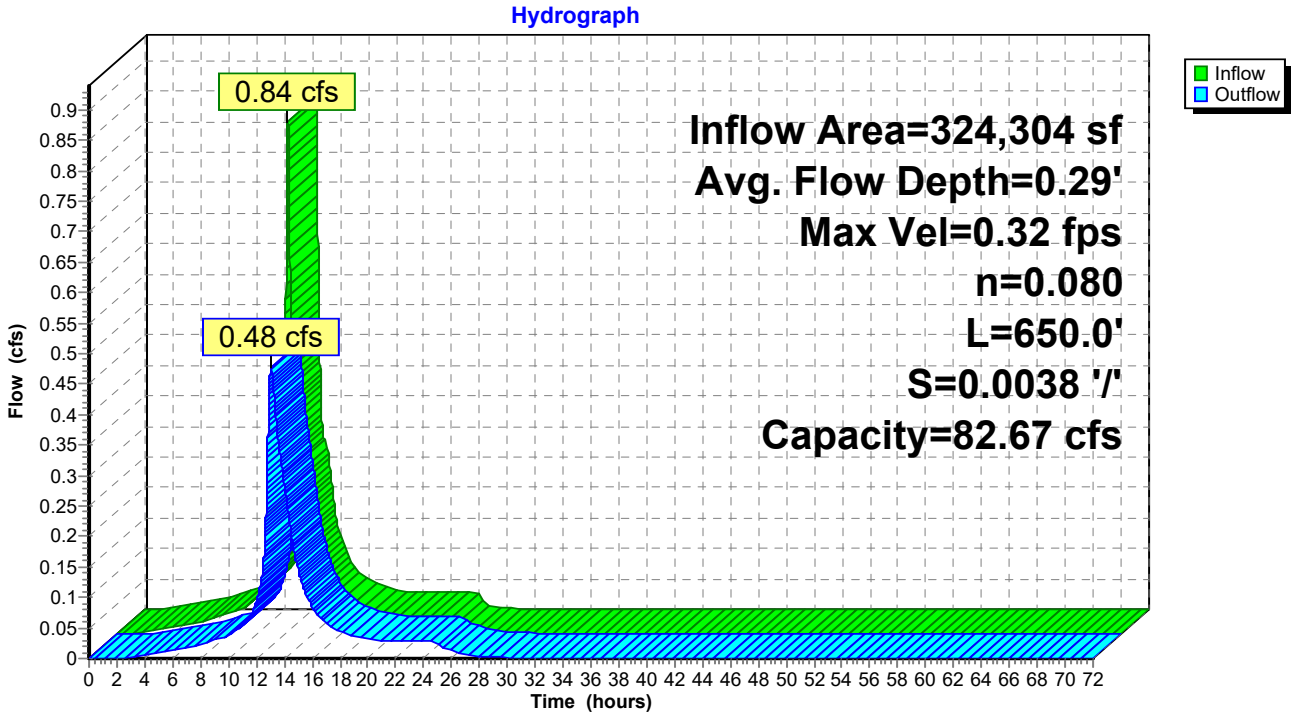
Peak Storage= 979 cf @ 12.48 hrs
Average Depth at Peak Storage= 0.29' , Surface Width= 10.41'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 82.67 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 650.0' Slope= 0.0038 '/'
Inlet Invert= 162.50', Outlet Invert= 160.00'



‡

Reach 30R: DA1A West Swale



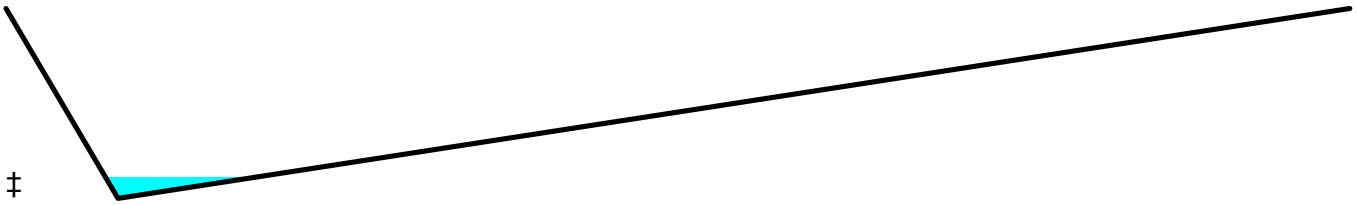
Summary for Reach 31R: DA2B East Swale

Inflow Area = 195,980 sf, 6.17% Impervious, Inflow Depth = 0.20" for 2-year_current event
Inflow = 0.63 cfs @ 12.25 hrs, Volume= 3,260 cf
Outflow = 0.37 cfs @ 12.97 hrs, Volume= 3,260 cf, Atten= 42%, Lag= 43.1 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.39 fps, Min. Travel Time= 31.1 min
Avg. Velocity = 0.16 fps, Avg. Travel Time= 79.2 min

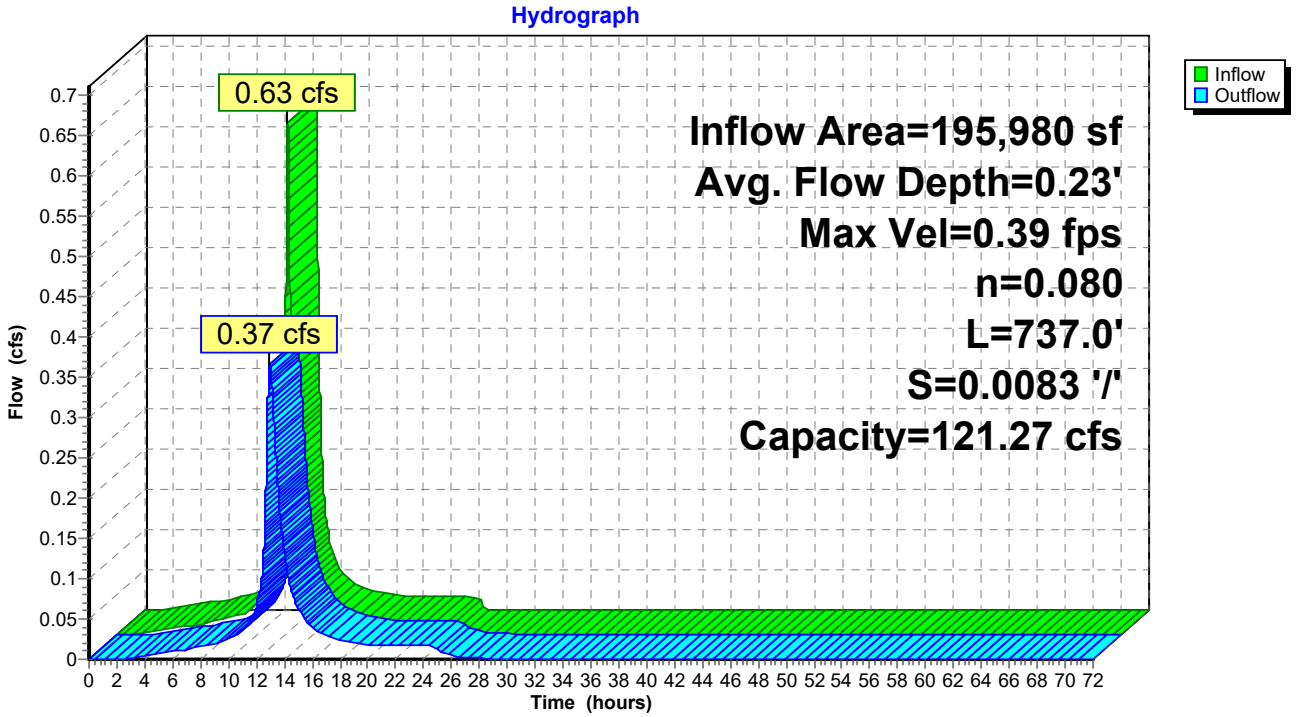
Peak Storage= 681 cf @ 12.45 hrs
Average Depth at Peak Storage= 0.23' , Surface Width= 8.15'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 121.27 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 737.0' Slope= 0.0083 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 31R: DA2B East Swale



Summary for Reach 33R: DA2B West Swale

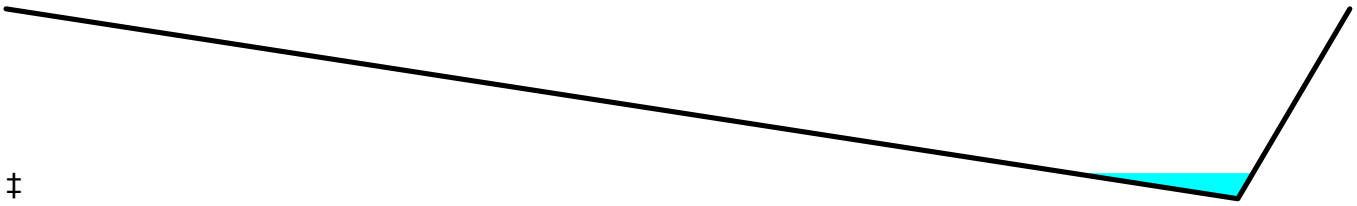
[61] Hint: Exceeded Reach 45R outlet invert by 0.27' @ 12.41 hrs

Inflow Area = 182,604 sf, 6.25% Impervious, Inflow Depth = 0.20" for 2-year_current event
Inflow = 0.59 cfs @ 12.25 hrs, Volume= 3,078 cf
Outflow = 0.40 cfs @ 12.76 hrs, Volume= 3,078 cf, Atten= 32%, Lag= 30.6 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.31 fps, Min. Travel Time= 21.0 min
Avg. Velocity = 0.12 fps, Avg. Travel Time= 53.9 min

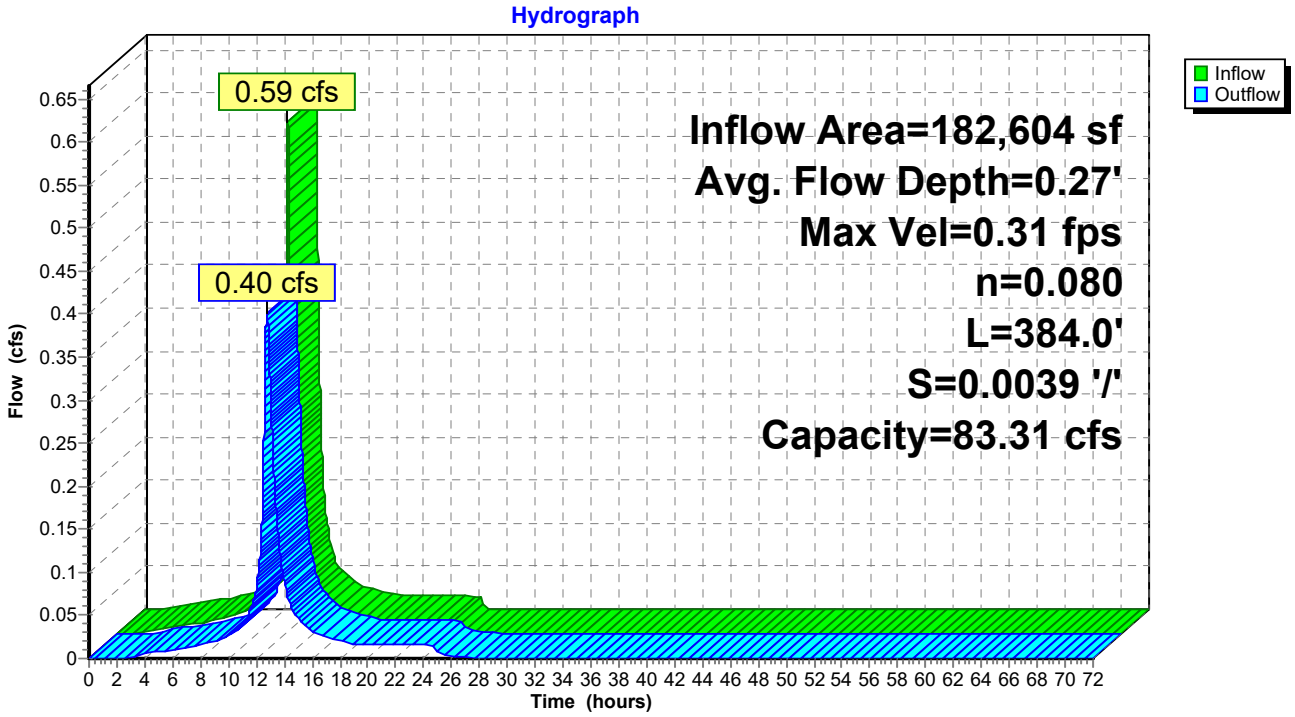
Peak Storage= 505 cf @ 12.41 hrs
Average Depth at Peak Storage= 0.27' , Surface Width= 9.72'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 83.31 cfs

0.00' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 384.0' Slope= 0.0039 '/'
Inlet Invert= 162.50', Outlet Invert= 161.00'



‡

Reach 33R: DA2B West Swale



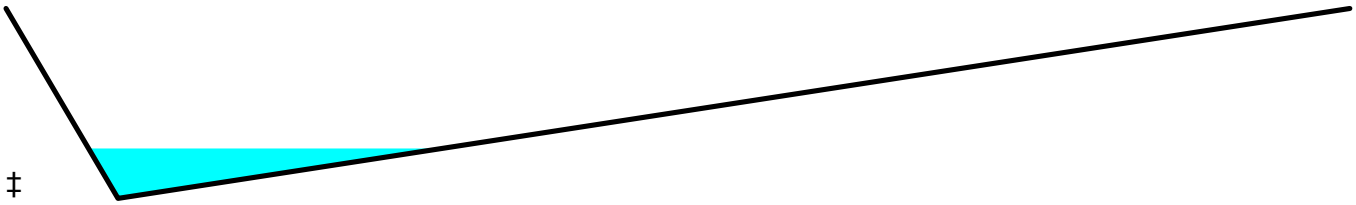
Summary for Reach 34R: DA4 West Swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 2.08" for 2-year_current event
Inflow = 3.74 cfs @ 12.10 hrs, Volume= 12,137 cf
Outflow = 2.45 cfs @ 12.33 hrs, Volume= 12,137 cf, Atten= 35%, Lag= 13.7 min
Routed to Reach 43R : DA4 Roadside swale

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.49 fps, Min. Travel Time= 12.1 min
Avg. Velocity = 0.17 fps, Avg. Travel Time= 36.0 min

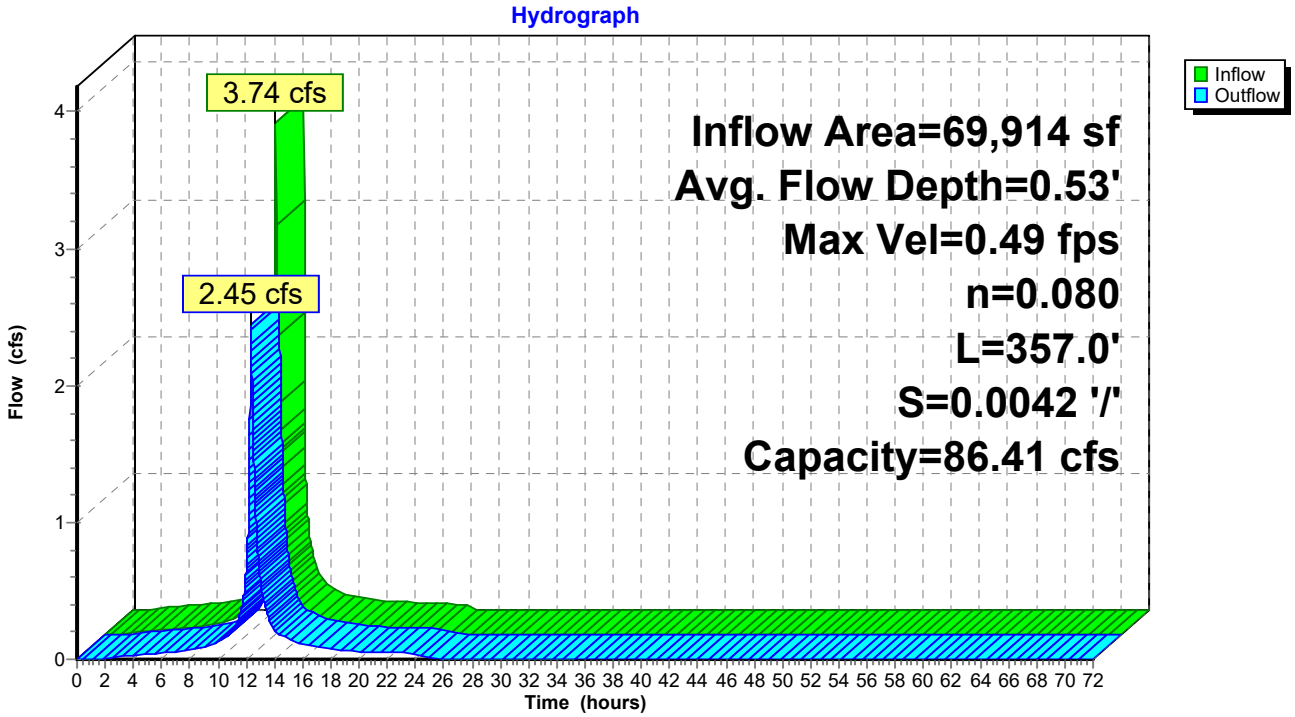
Peak Storage= 1,776 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.53' , Surface Width= 18.92'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 86.41 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 357.0' Slope= 0.0042 '/'
Inlet Invert= 163.50', Outlet Invert= 162.00'



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Reach 34R: DA4 West Swale



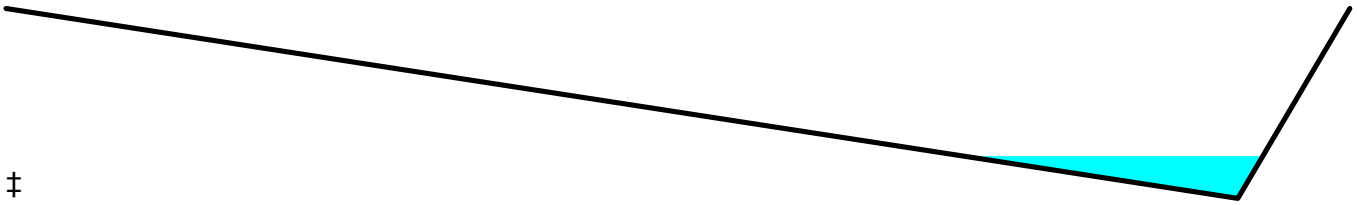
Summary for Reach 35R: DA2A West Swale

Inflow Area = 55,016 sf, 69.91% Impervious, Inflow Depth = 2.22" for 2-year_current event
Inflow = 3.13 cfs @ 12.10 hrs, Volume= 10,157 cf
Outflow = 1.83 cfs @ 12.40 hrs, Volume= 10,157 cf, Atten= 41%, Lag= 18.0 min
Routed to Pond 26P : Basin 2A Forebay

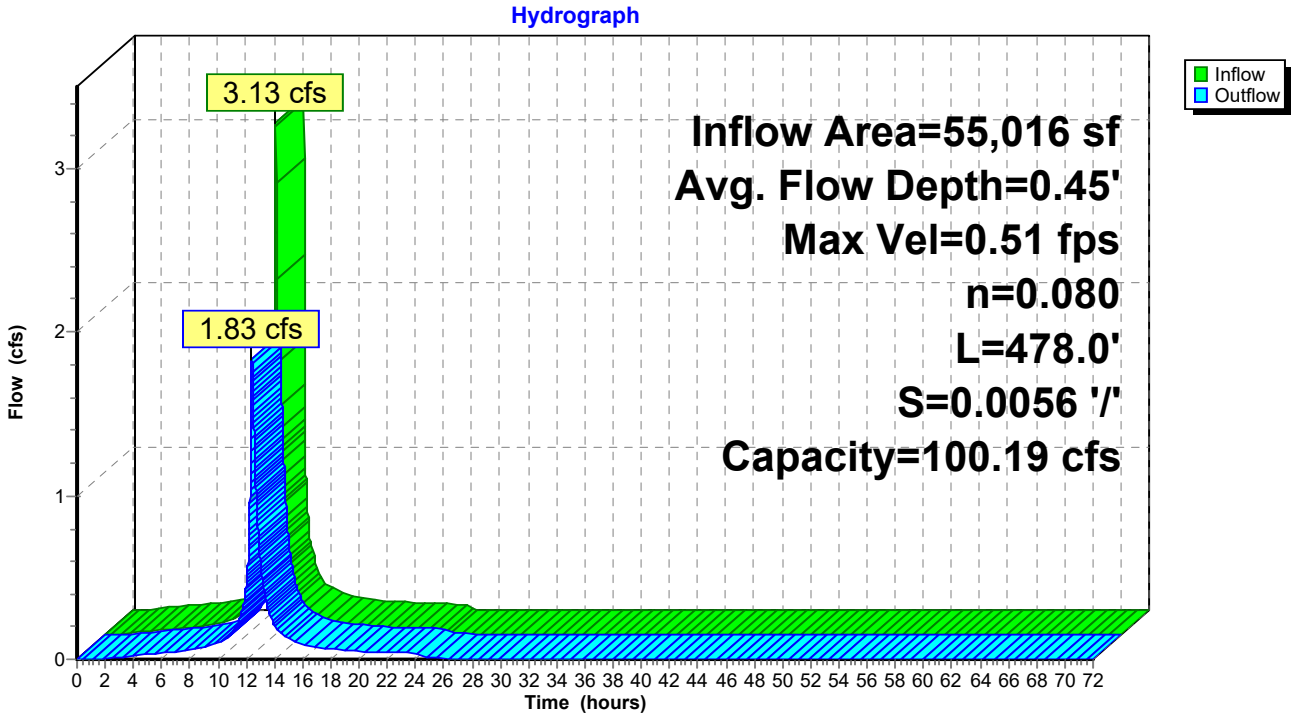
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.51 fps, Min. Travel Time= 15.6 min
Avg. Velocity = 0.17 fps, Avg. Travel Time= 45.8 min

Peak Storage= 1,709 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.45' , Surface Width= 16.04'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 100.19 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 478.0' Slope= 0.0056 '/'
Inlet Invert= 162.20', Outlet Invert= 159.50'



‡



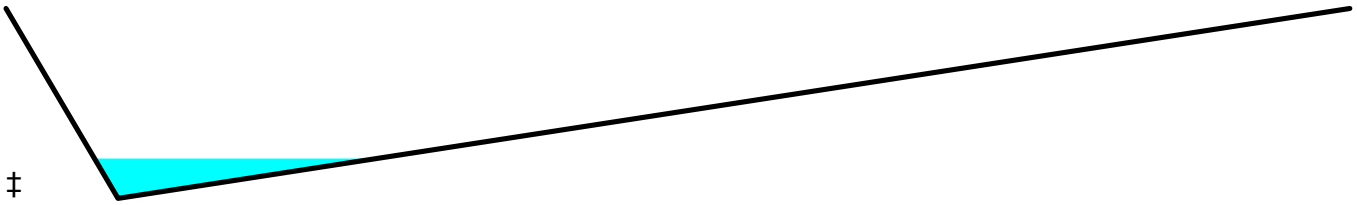
Summary for Reach 36R: DA2A East Swale

Inflow Area = 51,183 sf, 71.06% Impervious, Inflow Depth = 2.25" for 2-year_current event
Inflow = 2.91 cfs @ 12.11 hrs, Volume= 9,604 cf
Outflow = 2.69 cfs @ 12.17 hrs, Volume= 9,604 cf, Atten= 8%, Lag= 4.0 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.85 fps, Min. Travel Time= 2.8 min
Avg. Velocity = 0.32 fps, Avg. Travel Time= 7.5 min

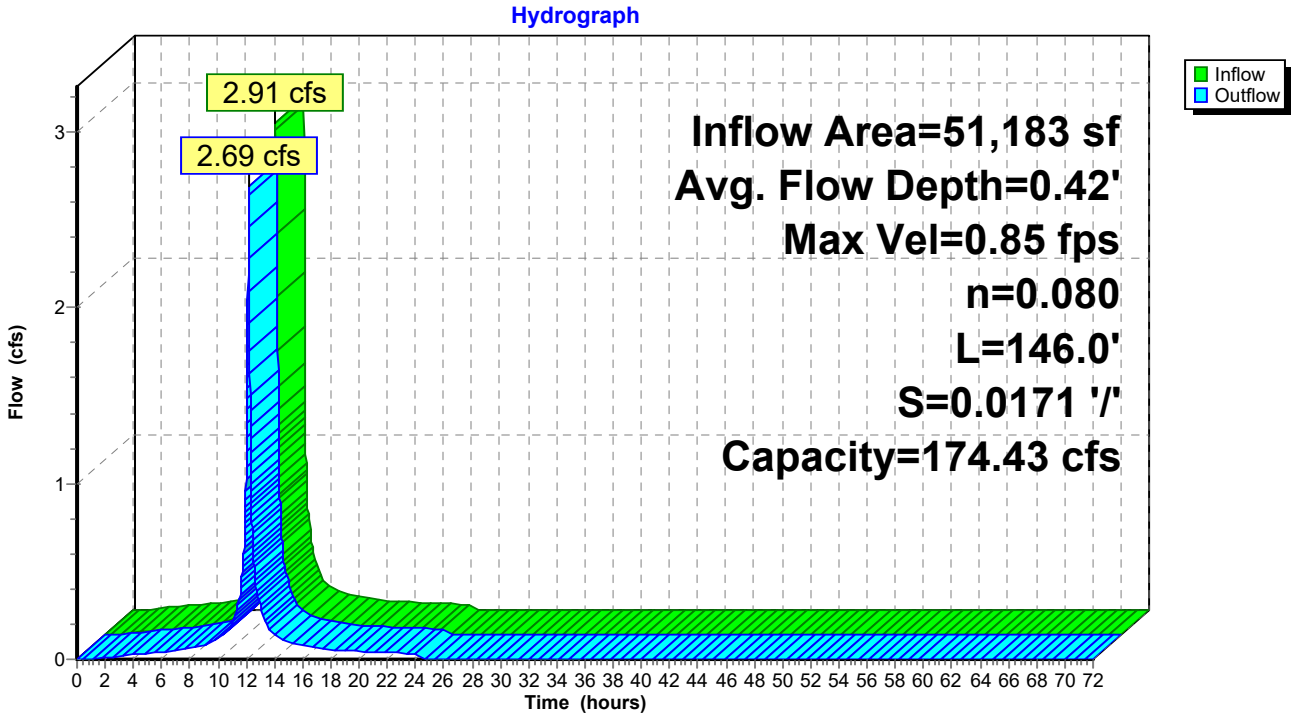
Peak Storage= 461 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.42' , Surface Width= 15.08'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 174.43 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 146.0' Slope= 0.0171 '/'
Inlet Invert= 162.00', Outlet Invert= 159.50'



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Reach 36R: DA2A East Swale



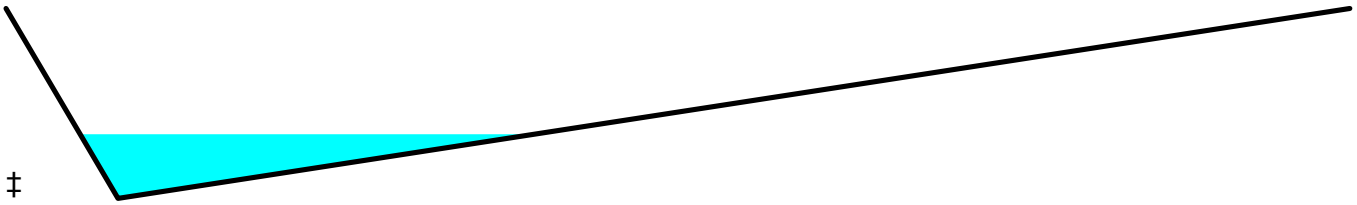
Summary for Reach 37R: DA1B Swale

Inflow Area = 104,152 sf, 91.22% Impervious, Inflow Depth = 2.89" for 2-year_current event
Inflow = 7.65 cfs @ 12.11 hrs, Volume= 25,075 cf
Outflow = 5.34 cfs @ 12.31 hrs, Volume= 25,075 cf, Atten= 30%, Lag= 12.1 min
Routed to Pond 18P : Basin 1B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.65 fps, Min. Travel Time= 9.8 min
Avg. Velocity = 0.21 fps, Avg. Travel Time= 30.0 min

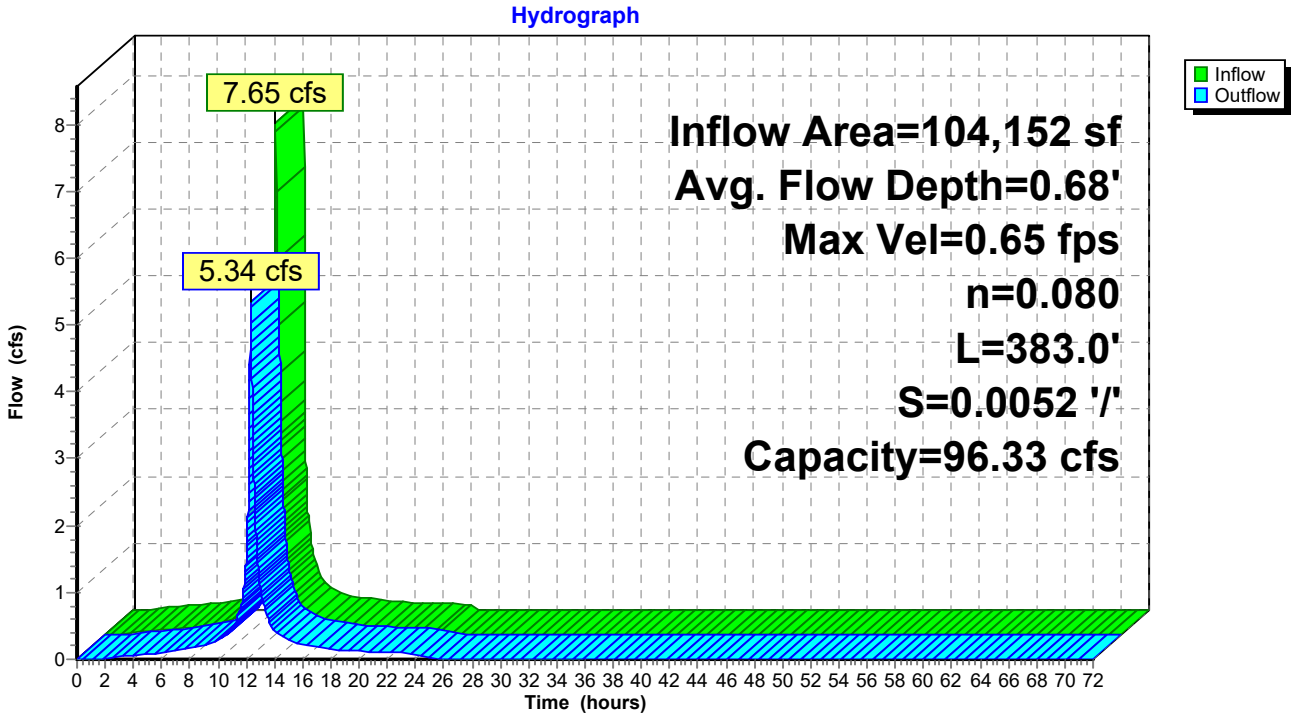
Peak Storage= 3,155 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.68' , Surface Width= 24.35'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 96.33 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 383.0' Slope= 0.0052 '/'
Inlet Invert= 162.00', Outlet Invert= 160.00'



‡

Reach 37R: DA1B Swale



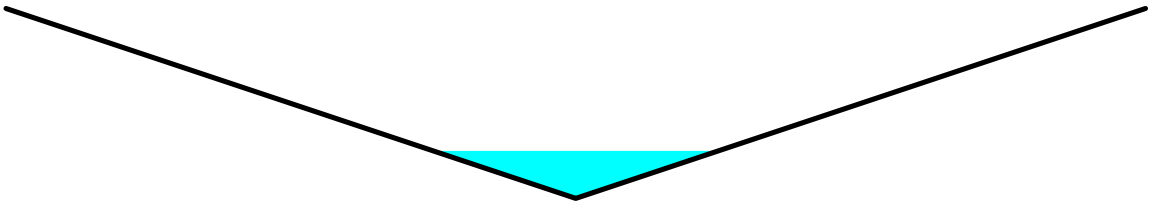
Summary for Reach 38R: DA3 Swale

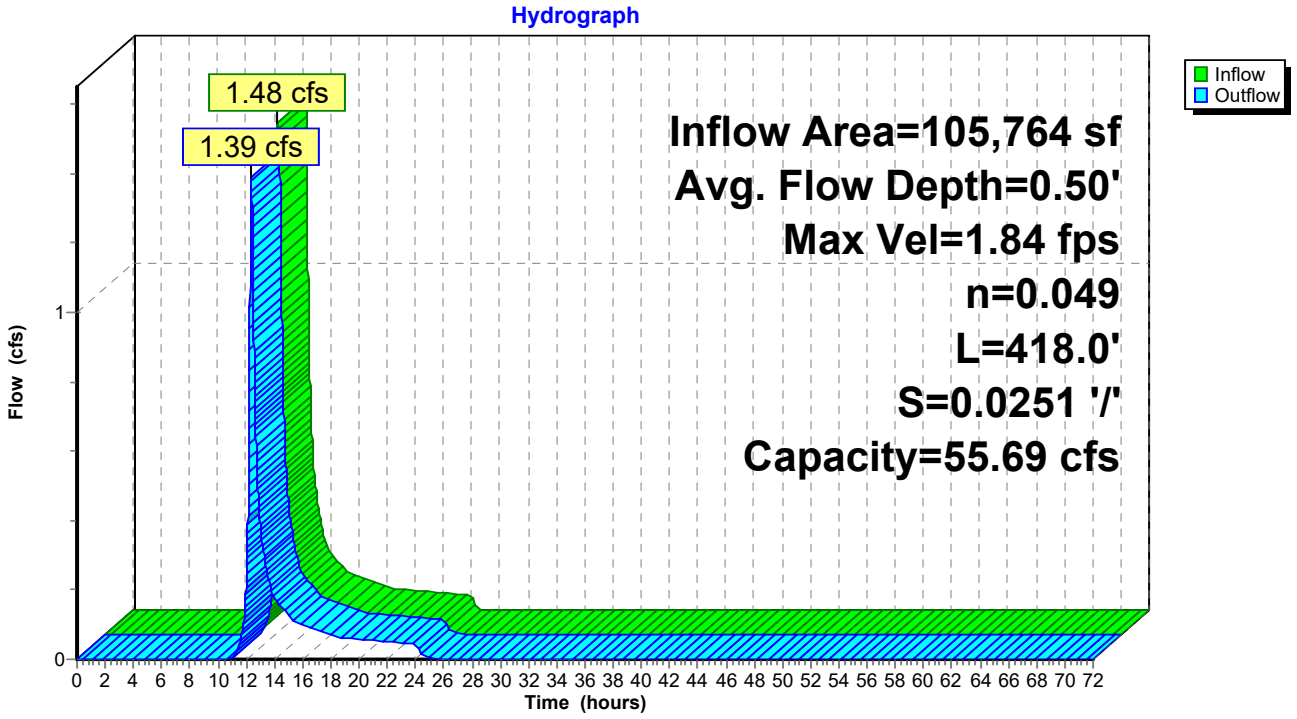
Inflow Area = 105,764 sf, 0.00% Impervious, Inflow Depth = 0.74" for 2-year_current event
Inflow = 1.48 cfs @ 12.25 hrs, Volume= 6,560 cf
Outflow = 1.39 cfs @ 12.35 hrs, Volume= 6,560 cf, Atten= 6%, Lag= 6.6 min
Routed to Pond 38P : Basin 3 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.84 fps, Min. Travel Time= 3.8 min
Avg. Velocity = 0.83 fps, Avg. Travel Time= 8.4 min

Peak Storage= 315 cf @ 12.29 hrs
Average Depth at Peak Storage= 0.50' , Surface Width= 3.01'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 55.69 cfs

0.00' x 2.00' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 418.0' Slope= 0.0251 '/'
Inlet Invert= 158.50', Outlet Invert= 148.00'





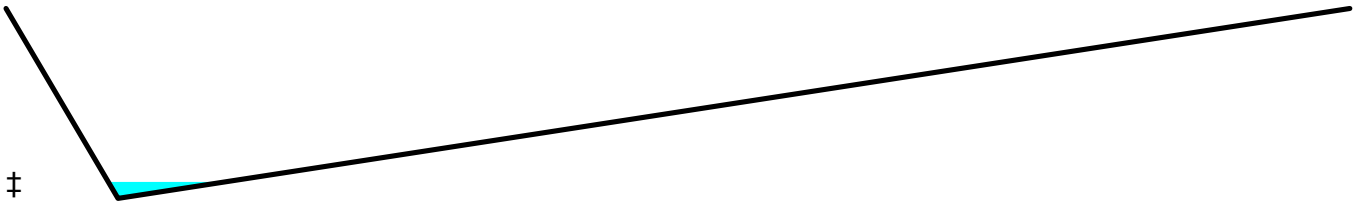
Summary for Reach 39R: DA 1A Central Swale A

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.20" for 2-year_current event
Inflow = 0.26 cfs @ 12.22 hrs, Volume= 1,245 cf
Outflow = 0.14 cfs @ 12.95 hrs, Volume= 1,245 cf, Atten= 46%, Lag= 43.7 min
Routed to Reach 41R : DA 1A Central Swale B

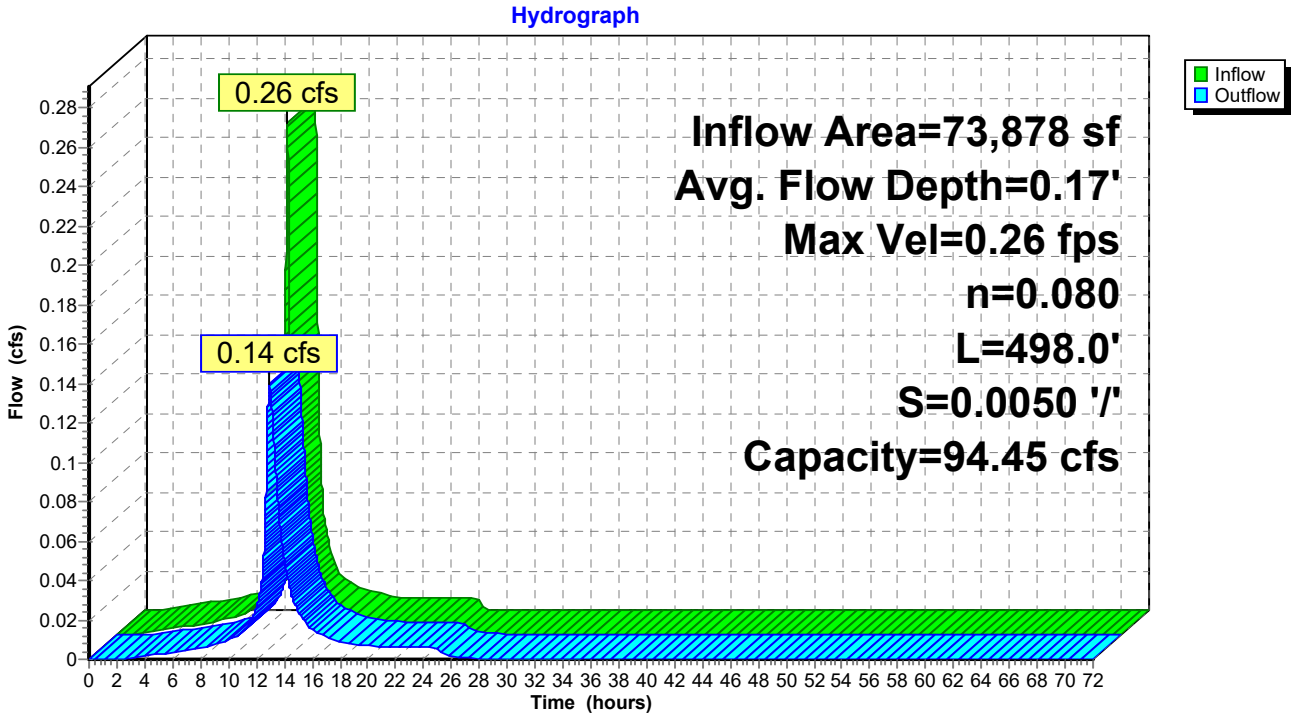
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.26 fps, Min. Travel Time= 32.2 min
Avg. Velocity = 0.11 fps, Avg. Travel Time= 76.9 min

Peak Storage= 270 cf @ 12.41 hrs
Average Depth at Peak Storage= 0.17' , Surface Width= 6.24'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 94.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 498.0' Slope= 0.0050 '/'
Inlet Invert= 171.00', Outlet Invert= 168.50'



‡



Summary for Reach 41R: DA 1A Central Swale B

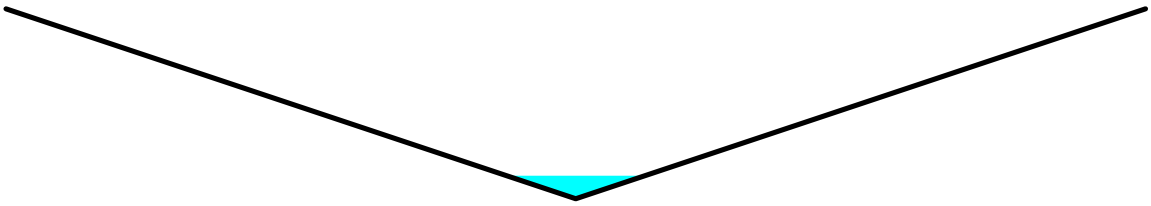
[62] Hint: Exceeded Reach 39R OUTLET depth by 0.10' @ 13.10 hrs

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.20" for 2-year_current event
Inflow = 0.14 cfs @ 12.95 hrs, Volume= 1,245 cf
Outflow = 0.14 cfs @ 13.07 hrs, Volume= 1,245 cf, Atten= 1%, Lag= 7.6 min
Routed to Reach 30R : DA1A West Swale

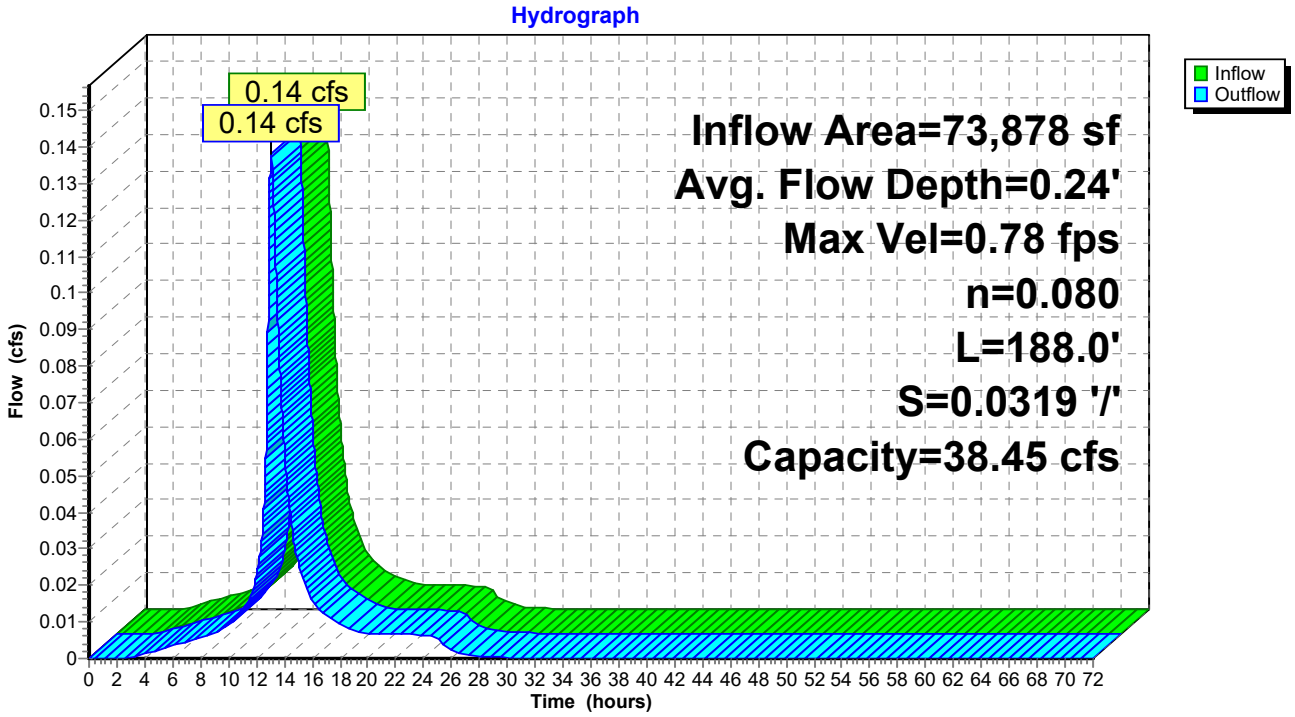
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.78 fps, Min. Travel Time= 4.0 min
Avg. Velocity = 0.33 fps, Avg. Travel Time= 9.5 min

Peak Storage= 33 cf @ 13.01 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 1.45'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 38.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 188.0' Slope= 0.0319 '/'
Inlet Invert= 168.50', Outlet Invert= 162.50'



Reach 41R: DA 1A Central Swale B



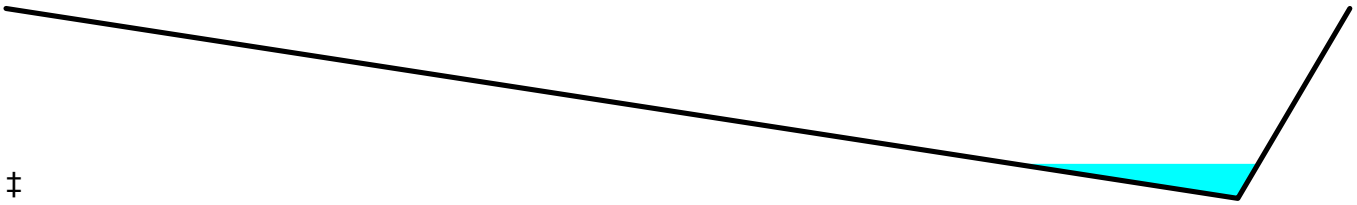
Summary for Reach 42R: DA4 East Swale

Inflow Area = 37,810 sf, 57.37% Impervious, Inflow Depth = 1.82" for 2-year_current event
Inflow = 1.74 cfs @ 12.11 hrs, Volume= 5,731 cf
Outflow = 1.62 cfs @ 12.17 hrs, Volume= 5,731 cf, Atten= 7%, Lag= 3.9 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.68 fps, Min. Travel Time= 2.8 min
Avg. Velocity = 0.26 fps, Avg. Travel Time= 7.3 min

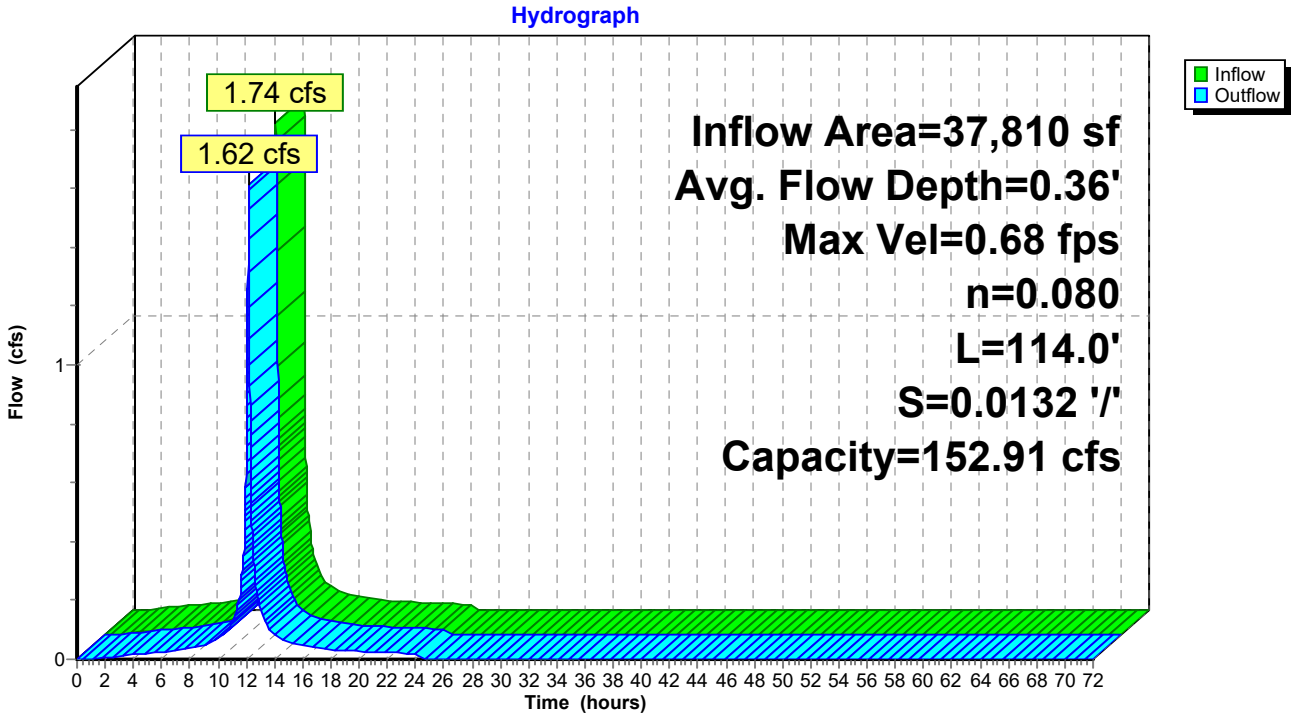
Peak Storage= 271 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.36' , Surface Width= 13.08'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 152.91 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 114.0' Slope= 0.0132 '/'
Inlet Invert= 159.50', Outlet Invert= 158.00'



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Reach 42R: DA4 East Swale



Summary for Reach 43R: DA4 Roadside swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 2.08" for 2-year_current event
Inflow = 2.45 cfs @ 12.33 hrs, Volume= 12,137 cf
Outflow = 2.42 cfs @ 12.35 hrs, Volume= 12,137 cf, Atten= 1%, Lag= 1.6 min
Routed to Reach 44R : DA4 Culvert

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.89 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 0.54 fps, Avg. Travel Time= 3.2 min

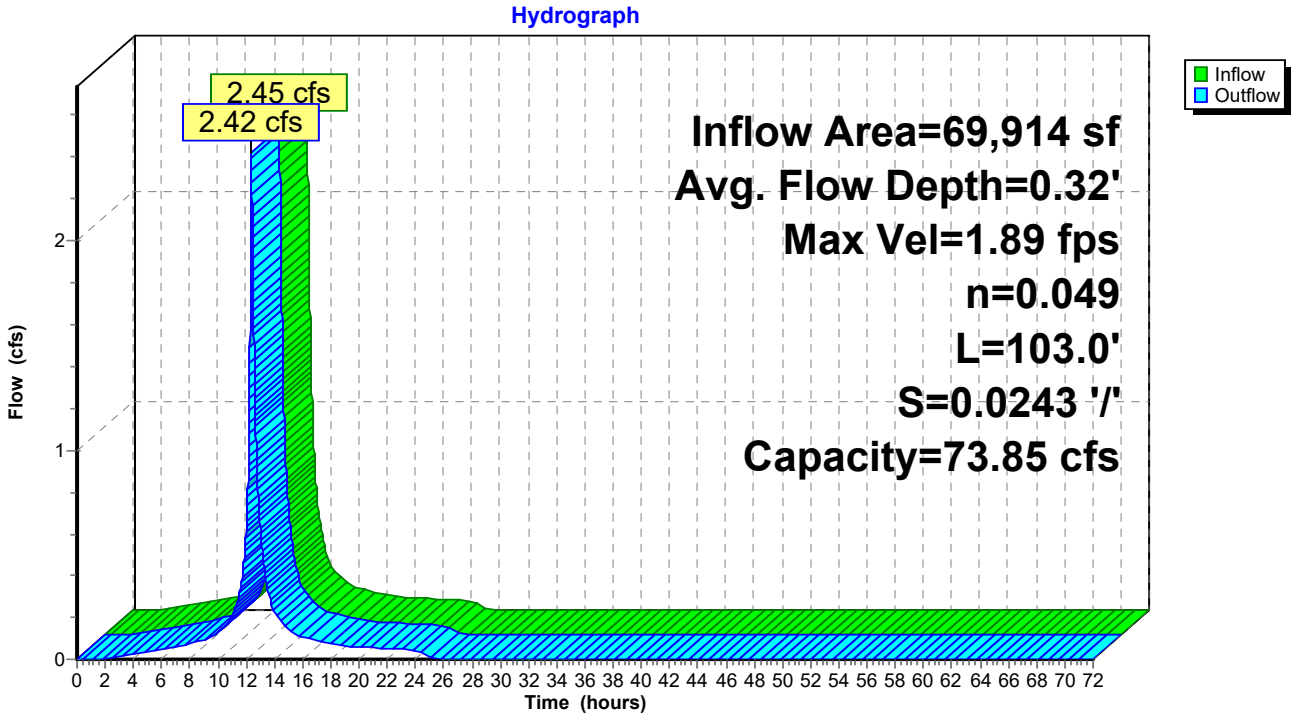
Peak Storage= 132 cf @ 12.34 hrs
Average Depth at Peak Storage= 0.32' , Surface Width= 4.93'
Bank-Full Depth= 1.80' Flow Area= 15.1 sf, Capacity= 73.85 cfs

3.00' x 1.80' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 13.80'
Length= 103.0' Slope= 0.0243 '/'
Inlet Invert= 160.20', Outlet Invert= 157.70'



‡

Reach 43R: DA4 Roadside swale



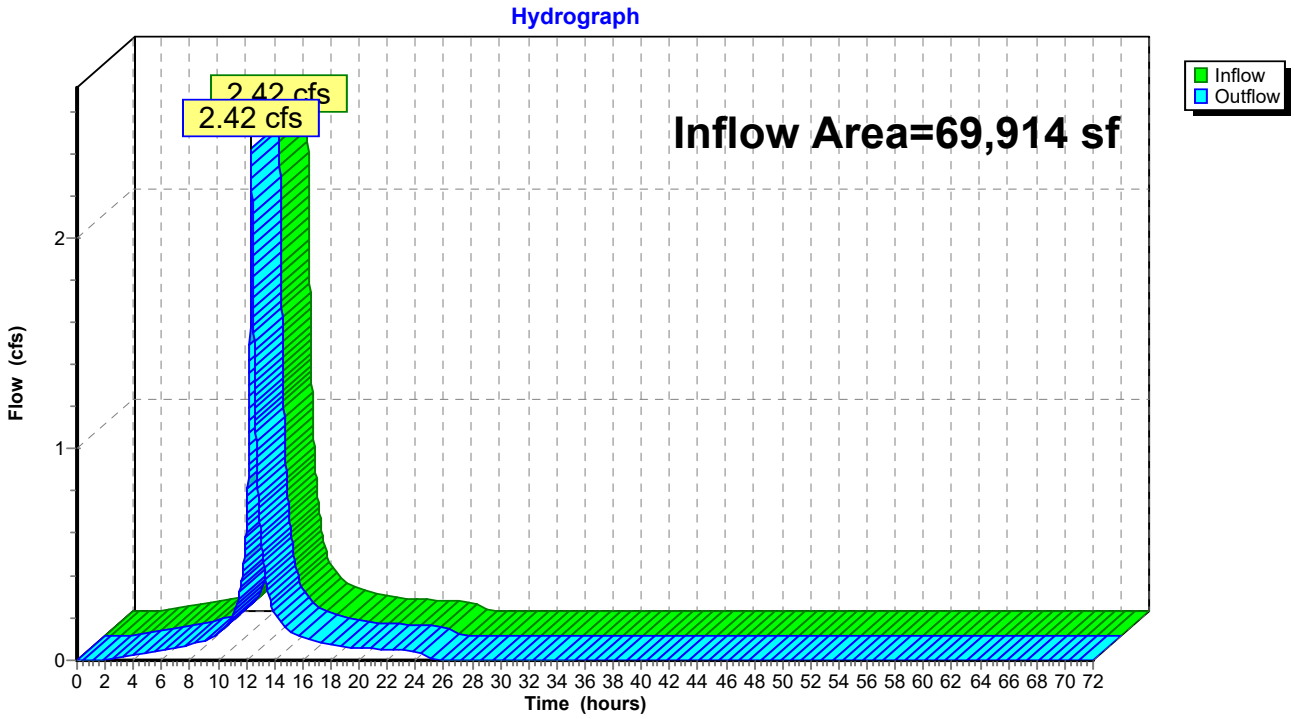
Summary for Reach 44R: DA4 Culvert

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 2.08" for 2-year_current event
Inflow = 2.42 cfs @ 12.35 hrs, Volume= 12,137 cf
Outflow = 2.42 cfs @ 12.35 hrs, Volume= 12,137 cf, Atten= 0%, Lag= 0.0 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach 44R: DA4 Culvert

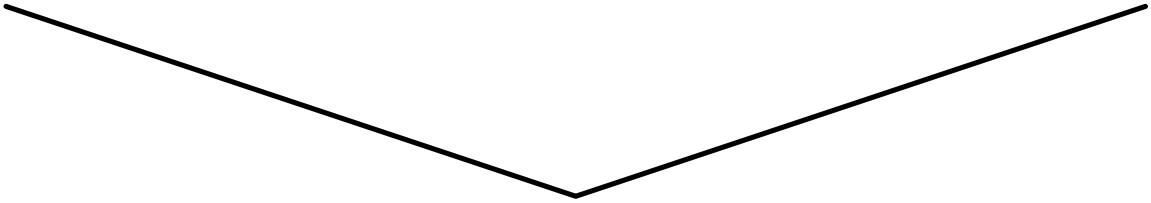


Summary for Reach 45R: DA2B Road Swale

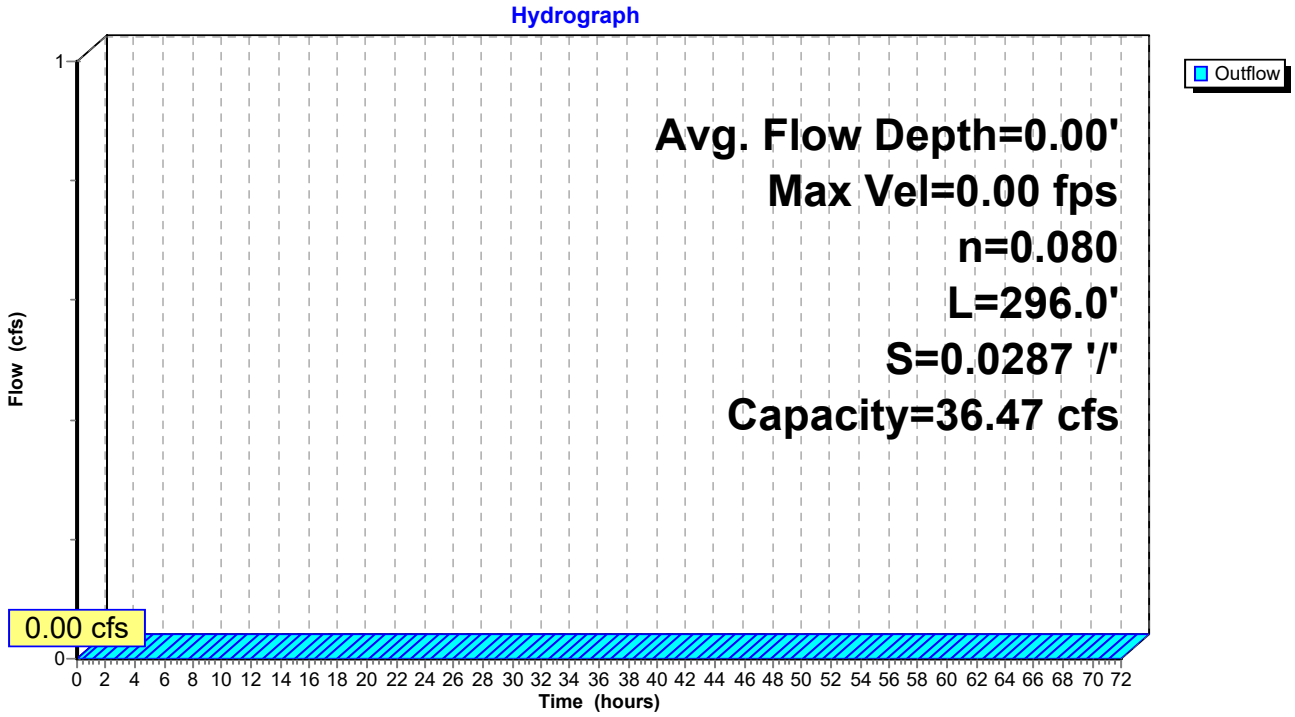
[43] Hint: Has no inflow (Outflow=Zero)

Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 36.47 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 296.0' Slope= 0.0287 '/'
Inlet Invert= 171.00', Outlet Invert= 162.50'



Reach 45R: DA2B Road Swale



Summary for Pond 15P: Basin 1A Forebay

Inflow Area = 510,150 sf, 6.82% Impervious, Inflow Depth = 0.22" for 2-year_current event
Inflow = 0.81 cfs @ 13.07 hrs, Volume= 9,362 cf
Outflow = 0.77 cfs @ 13.21 hrs, Volume= 6,125 cf, Atten= 5%, Lag= 8.5 min
Primary = 0.77 cfs @ 13.21 hrs, Volume= 6,125 cf
Routed to Pond 48P : Basin 1A Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.88' @ 13.21 hrs Surf.Area= 1,763 sf Storage= 3,386 cf

Plug-Flow detention time= 250.1 min calculated for 6,124 cf (65% of inflow)
Center-of-Mass det. time= 115.9 min (986.0 - 870.1)

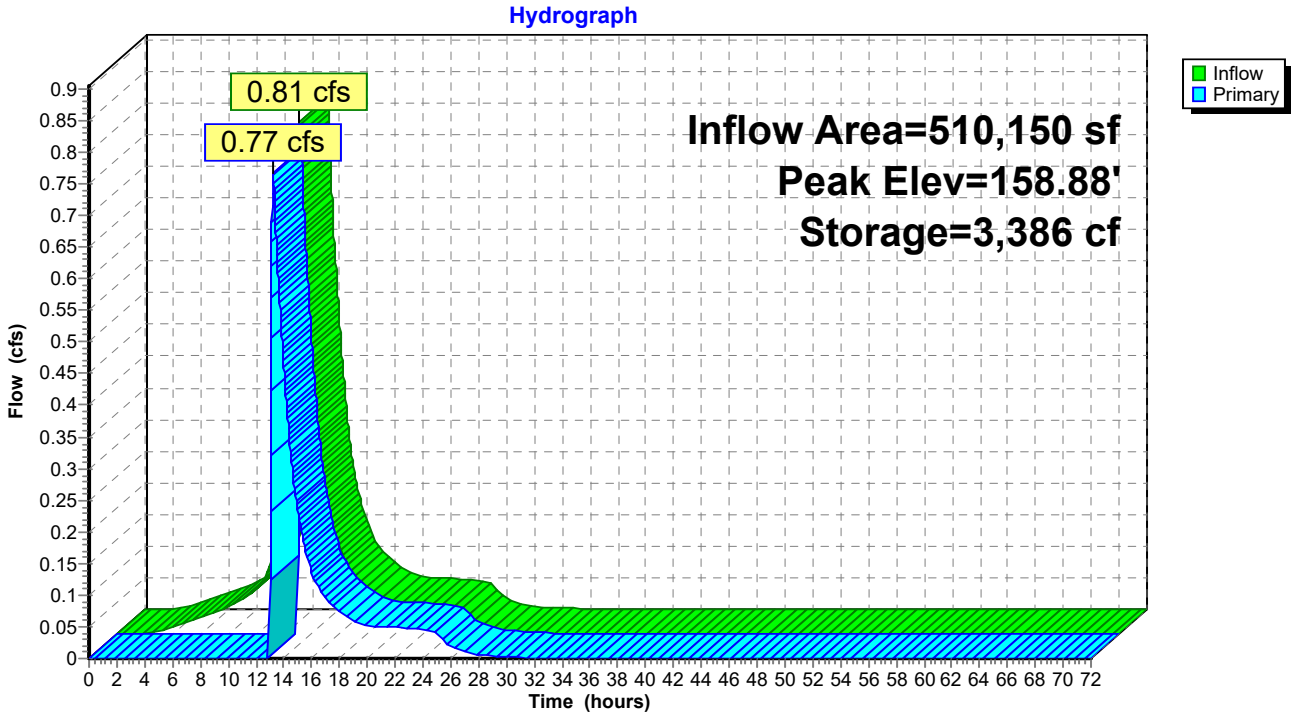
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	3,964 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	662	0	0
156.20	723	138	138
156.70	885	402	540
157.20	1,062	487	1,027
157.70	1,253	579	1,606
158.20	1,458	678	2,284
158.70	1,677	784	3,067
159.20	1,910	897	3,964

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.80'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Primary	159.00'	**25.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.76 cfs @ 13.21 hrs HW=158.88' (Free Discharge)
└**2=Culvert** (Passes 0.76 cfs of 16.40 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 0.76 cfs @ 0.95 fps)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 15P: Basin 1A Forebay



Summary for Pond 18P: Basin 1B Forebay

Inflow Area = 114,201 sf, 89.03% Impervious, Inflow Depth = 2.83" for 2-year_current event
Inflow = 5.46 cfs @ 12.30 hrs, Volume= 26,922 cf
Outflow = 4.47 cfs @ 12.39 hrs, Volume= 16,913 cf, Atten= 18%, Lag= 5.0 min
Primary = 4.47 cfs @ 12.39 hrs, Volume= 16,913 cf
Routed to Pond 43P : Basin 1B Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.78' @ 12.39 hrs Surf.Area= 5,127 sf Storage= 11,392 cf

Plug-Flow detention time= 231.7 min calculated for 16,910 cf (63% of inflow)
Center-of-Mass det. time= 113.8 min (894.1 - 780.3)

Volume	Invert	Avail.Storage	Storage Description
#1	155.98'	18,291 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

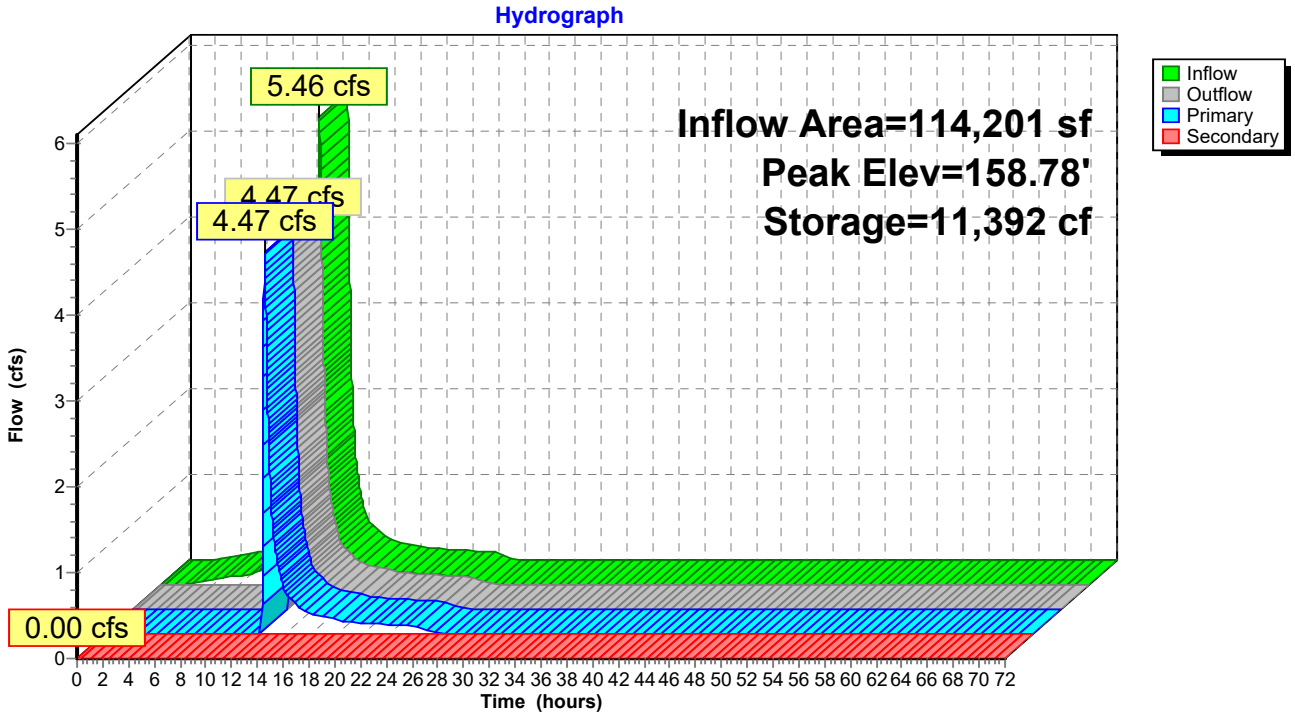
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.98	3,096	0	0
156.00	3,108	62	62
156.50	3,440	1,637	1,699
157.00	3,785	1,806	3,505
157.50	4,145	1,983	5,488
158.00	4,518	2,166	7,654
158.50	4,906	2,356	10,010
159.00	5,308	2,554	12,563
159.50	5,724	2,758	15,321
160.00	6,154	2,970	18,291

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	159.50'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=4.45 cfs @ 12.39 hrs HW=158.78' (Free Discharge)
2=Culvert (Passes 4.45 cfs of 9.56 cfs potential flow)
1=Orifice/Grate (Weir Controls 4.45 cfs @ 1.72 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 18P: Basin 1B Forebay



Summary for Pond 26P: Basin 2A Forebay

Inflow Area = 114,388 sf, 72.58% Impervious, Inflow Depth = 2.30" for 2-year_current event
Inflow = 3.61 cfs @ 12.18 hrs, Volume= 21,922 cf
Outflow = 2.95 cfs @ 12.23 hrs, Volume= 14,676 cf, Atten= 18%, Lag= 3.3 min
Primary = 2.95 cfs @ 12.23 hrs, Volume= 14,676 cf
Routed to Pond 44P : Basin 2A Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.91' @ 12.23 hrs Surf.Area= 5,079 sf Storage= 8,290 cf

Plug-Flow detention time= 217.2 min calculated for 14,676 cf (67% of inflow)
Center-of-Mass det. time= 105.6 min (882.9 - 777.3)

Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	11,435 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

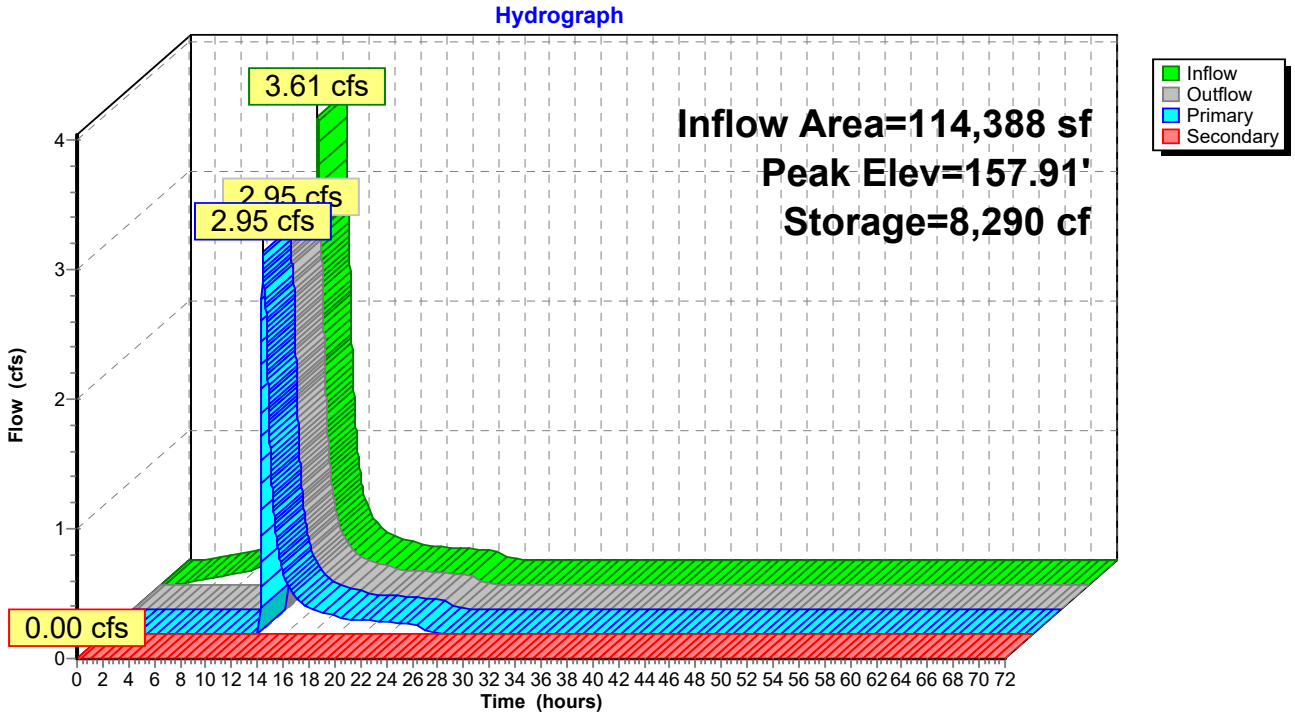
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	3,639	0	0
156.50	3,996	1,909	1,909
157.00	4,367	2,091	4,000
157.50	4,753	2,280	6,280
158.00	5,152	2,476	8,756
158.50	5,566	2,680	11,435

Device	Routing	Invert	Outlet Devices
#1	Secondary	158.30'	**20.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32
#2	Device 3	157.70'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Primary	156.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.00' S= 0.0417 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.94 cfs @ 12.23 hrs HW=157.91' (Free Discharge)
└**3=Culvert** (Passes 2.94 cfs of 7.23 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 2.94 cfs @ 1.49 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 26P: Basin 2A Forebay



Summary for Pond 38P: Basin 3 Forebay

Inflow Area = 106,766 sf, 0.94% Impervious, Inflow Depth = 0.77" for 2-year_current event
Inflow = 1.40 cfs @ 12.35 hrs, Volume= 6,824 cf
Outflow = 0.06 cfs @ 18.48 hrs, Volume= 1,366 cf, Atten= 95%, Lag= 367.3 min
Primary = 0.06 cfs @ 18.48 hrs, Volume= 1,366 cf
Routed to Pond 60P : Basin 3 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 145.51' @ 18.48 hrs Surf.Area= 4,193 sf Storage= 5,520 cf

Plug-Flow detention time= 543.4 min calculated for 1,366 cf (20% of inflow)
Center-of-Mass det. time= 370.2 min (1,261.6 - 891.4)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	18,417 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

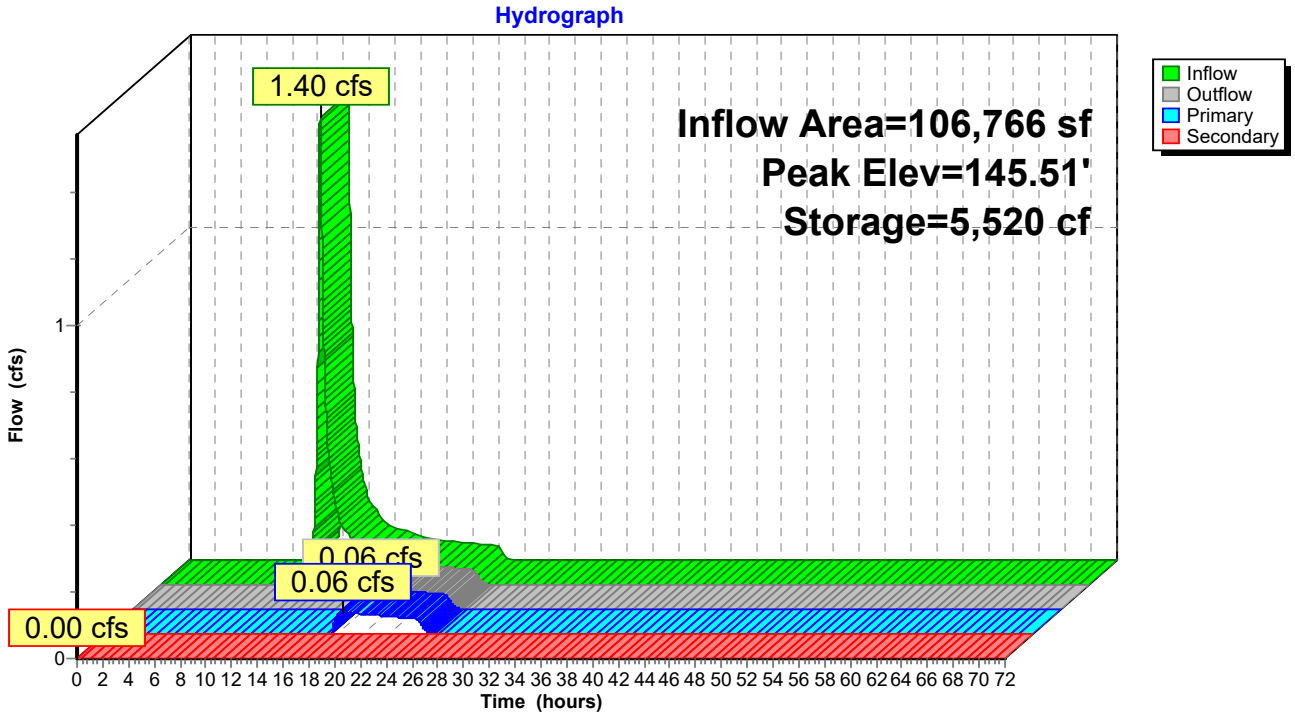
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.00	3,115	0	0
144.50	3,456	1,643	1,643
145.00	3,812	1,817	3,460
145.50	4,182	1,999	5,458
146.00	4,565	2,187	7,645
146.50	4,963	2,382	10,027
147.00	5,375	2,585	12,612
147.50	5,802	2,794	15,406
148.00	6,242	3,011	18,417

Device	Routing	Invert	Outlet Devices
#1	Device 2	145.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	144.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 144.00' / 143.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.06 cfs @ 18.48 hrs HW=145.51' (Free Discharge)
└**2=Culvert** (Passes 0.06 cfs of 5.87 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 0.06 cfs @ 0.40 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 38P: Basin 3 Forebay



Summary for Pond 39P: Basin 4 Forebay

[61] Hint: Exceeded Reach 42R outlet invert by 0.16' @ 12.53 hrs

Inflow Area = 112,908 sf, 64.51% Impervious, Inflow Depth = 2.04" for 2-year_current event
Inflow = 3.03 cfs @ 12.35 hrs, Volume= 19,236 cf
Outflow = 1.98 cfs @ 12.53 hrs, Volume= 10,025 cf, Atten= 34%, Lag= 10.6 min
Primary = 1.98 cfs @ 12.53 hrs, Volume= 10,025 cf
Routed to Pond 51P : Basin 4 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.16' @ 12.53 hrs Surf.Area= 4,220 sf Storage= 9,877 cf

Plug-Flow detention time= 282.3 min calculated for 10,024 cf (52% of inflow)
Center-of-Mass det. time= 144.4 min (923.4 - 779.1)

Volume	Invert	Avail.Storage	Storage Description
#1	155.00'	15,703 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

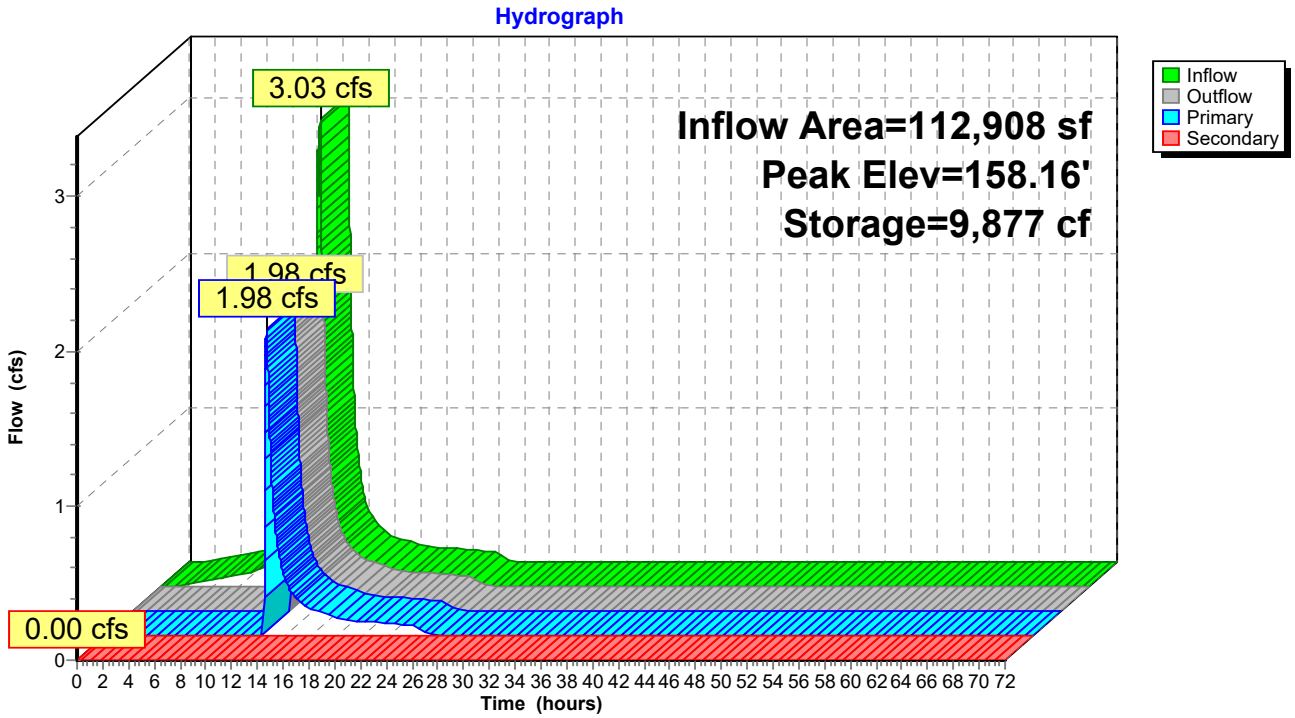
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.00	2,116	0	0
155.40	2,360	895	895
155.90	2,665	1,256	2,151
156.40	2,983	1,412	3,563
156.90	3,316	1,575	5,138
157.40	3,663	1,745	6,883
157.50	3,734	370	7,253
157.90	4,024	1,552	8,804
158.40	4,400	2,106	10,910
158.90	4,789	2,297	13,208
159.40	5,192	2,495	15,703

Device	Routing	Invert	Outlet Devices
#1	Primary	155.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 155.00' / 154.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	158.00'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	158.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=1.97 cfs @ 12.53 hrs HW=158.16' (Free Discharge)
└**1=Culvert** (Passes 1.97 cfs of 10.43 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 1.97 cfs @ 1.31 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 39P: Basin 4 Forebay



Summary for Pond 43P: Basin 1B Bioretention

[79] Warning: Submerged Pond 18P Primary device # 2 INLET by 1.39'

Inflow Area = 126,097 sf, 87.23% Impervious, Inflow Depth = 1.83" for 2-year_current event
Inflow = 4.60 cfs @ 12.39 hrs, Volume= 19,201 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.39' @ 66.85 hrs Surf.Area= 7,168 sf Storage= 19,201 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

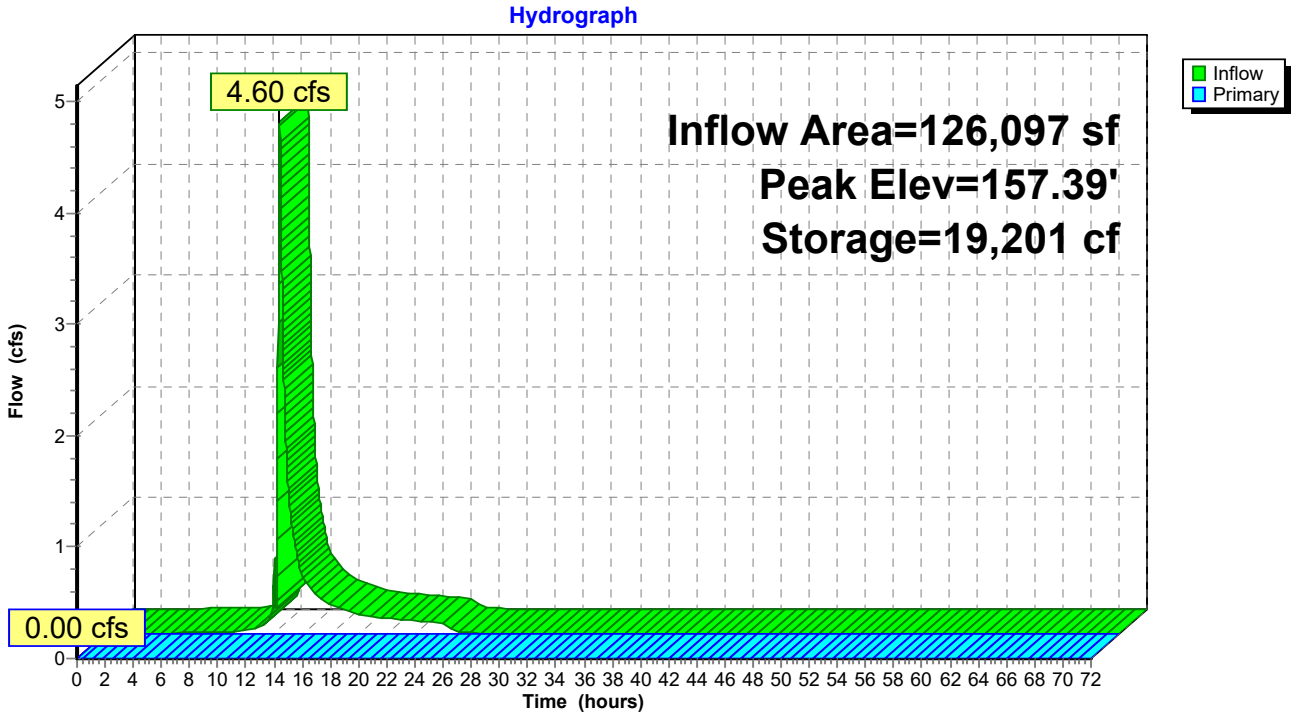
Volume	Invert	Avail.Storage	Storage Description
#1	153.98'	24,528 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.98	4,198	0	0
154.00	4,213	84	84
154.50	4,608	2,205	2,289
155.00	5,017	2,406	4,696
155.50	5,440	2,614	7,310
156.00	5,877	2,829	10,139
156.50	6,328	3,051	13,190
157.00	6,793	3,280	16,471
157.50	7,272	3,516	19,987
158.00	7,768	3,760	23,747
158.10	7,850	781	24,528

Device	Routing	Invert	Outlet Devices
#1	Device 2	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	154.00'	**24.0" Round Culvert** L= 32.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 152.00' S= 0.0625 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=153.98' (Free Discharge)
↑**2=Culvert** (Controls 0.00 cfs)
↑**1=Orifice/Grate** (Controls 0.00 cfs)

Pond 43P: Basin 1B Bioretention



Summary for Pond 44P: Basin 2A Bioretention

[79] Warning: Submerged Pond 26P Primary device # 3 INLET by 0.95'

Inflow Area = 127,935 sf, 75.49% Impervious, Inflow Depth = 1.71" for 2-year_current event
Inflow = 3.22 cfs @ 12.23 hrs, Volume= 18,251 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 156.95' @ 71.84 hrs Surf.Area= 7,755 sf Storage= 18,251 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

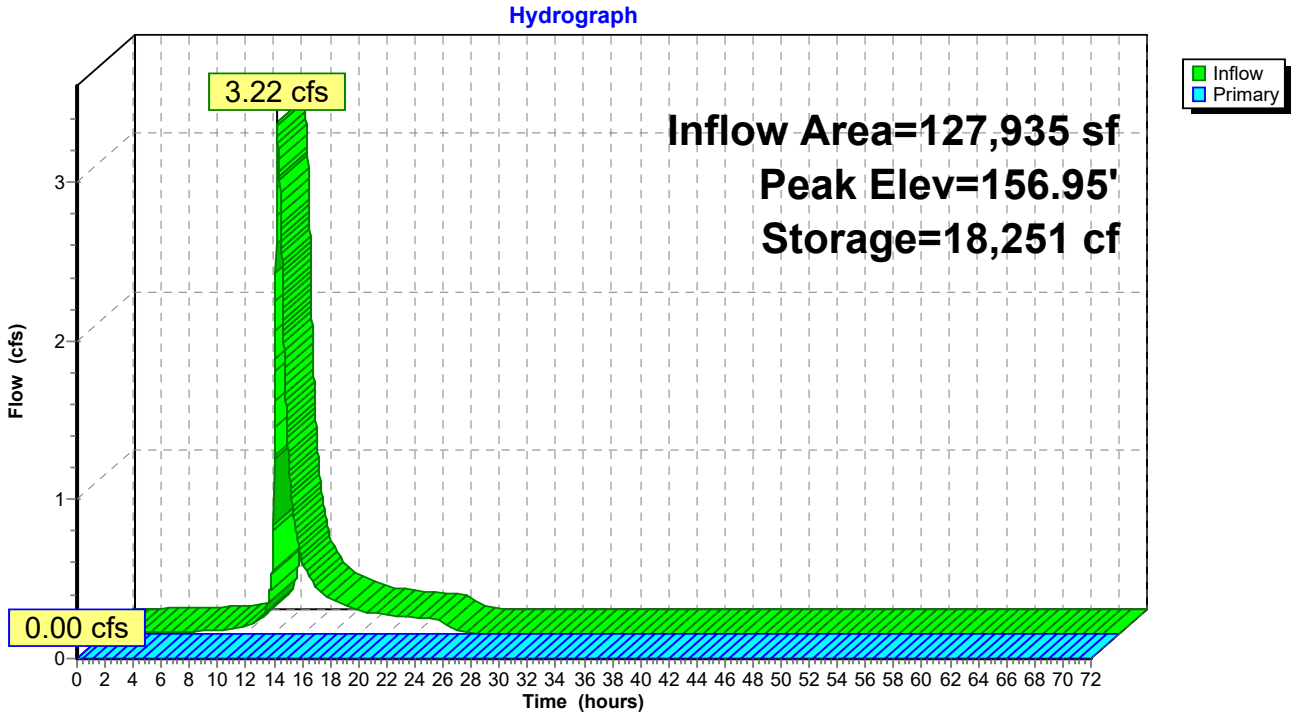
Volume	Invert	Avail.Storage	Storage Description
#1	154.00'	27,017 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
154.00	4,692	0	0
154.50	5,178	2,468	2,468
155.00	5,678	2,714	5,182
155.50	6,192	2,968	8,149
156.00	6,718	3,228	11,377
156.50	7,258	3,494	14,871
157.00	7,810	3,767	18,638
157.50	8,376	4,047	22,684
158.00	8,955	4,333	27,017

Device	Routing	Invert	Outlet Devices
#1	Primary	154.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 153.00' S= 0.0417 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=154.00' (Free Discharge)
↑**1=Culvert** (Controls 0.00 cfs)
↑**2=Orifice/Grate** (Controls 0.00 cfs)

Pond 44P: Basin 2A Bioretention



Summary for Pond 45P: Basin 2A Infiltration

Inflow Area = 177,071 sf, 82.29% Impervious, Inflow Depth = 0.88" for 2-year_current event
Inflow = 4.00 cfs @ 12.09 hrs, Volume= 12,967 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 151.19' @ 24.01 hrs Surf.Area= 21,865 sf Storage= 12,966 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

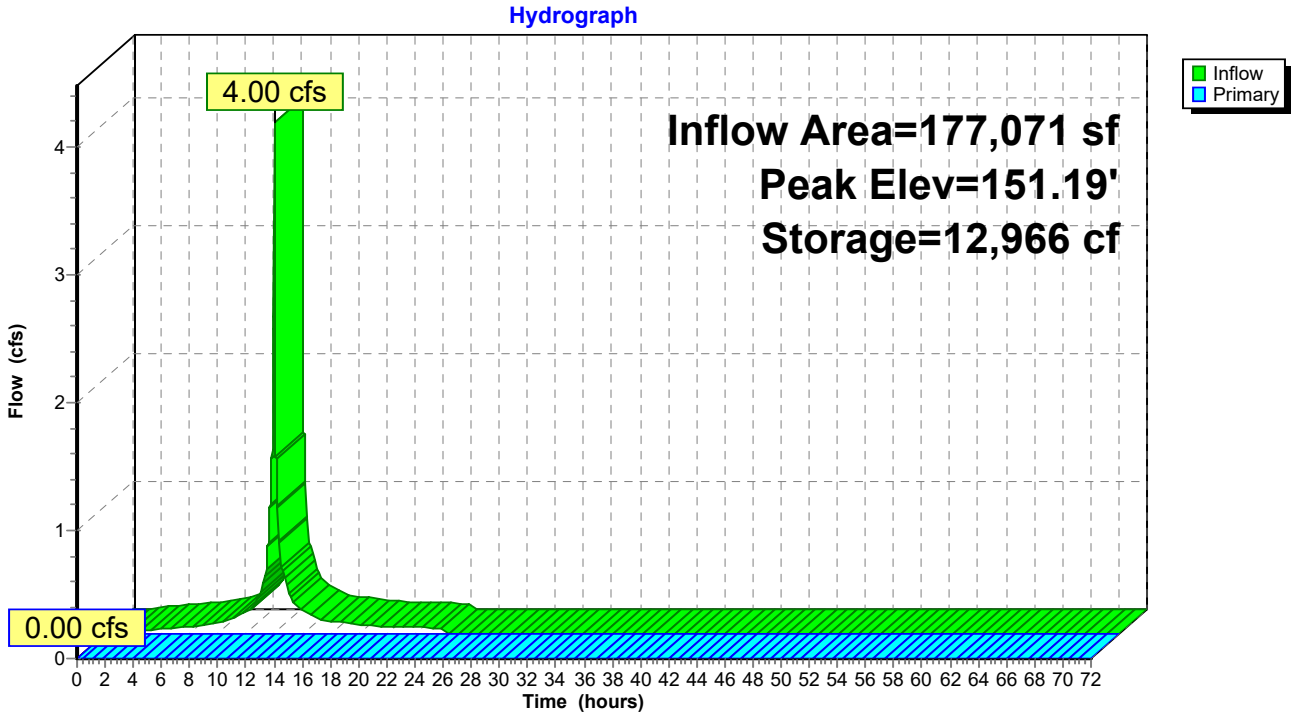
Volume	Invert	Avail.Storage	Storage Description
#1	150.50'	211,473 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.50	13,884	0	0
151.00	21,491	8,844	8,844
151.50	22,475	10,992	19,835
152.00	23,686	11,540	31,376
152.50	24,504	12,048	43,423
153.00	25,550	12,514	55,937
153.50	26,612	13,041	68,977
154.00	27,691	13,576	82,553
154.50	28,785	14,119	96,672
155.00	29,903	14,672	111,344
155.50	31,034	15,234	126,578
156.00	32,184	15,805	142,383
156.50	33,348	16,383	158,766
157.00	34,530	16,970	175,735
157.50	35,731	17,565	193,300
158.00	36,958	18,172	211,473

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.50' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 45P: Basin 2A Infiltration



Summary for Pond 46P: Basin 1B Infiltration

Inflow Area = 156,153 sf, 89.68% Impervious, Inflow Depth = 0.61" for 2-year_current event
Inflow = 2.45 cfs @ 12.09 hrs, Volume= 7,932 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 148.47' @ 24.01 hrs Surf.Area= 16,428 sf Storage= 7,931 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

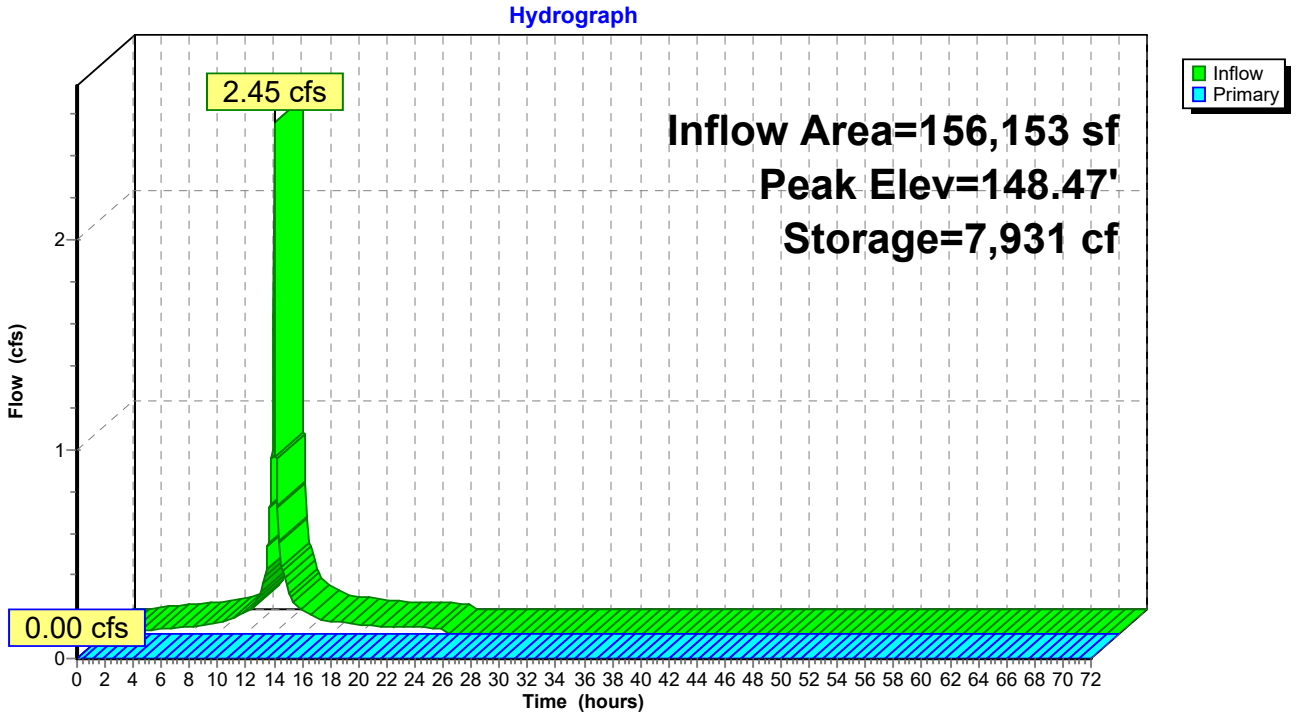
Volume	Invert	Avail.Storage	Storage Description
#1	147.98'	135,038 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.98	15,656	0	0
148.40	16,310	6,713	6,713
148.90	17,103	8,353	15,066
149.40	17,911	8,754	23,820
149.90	18,735	9,162	32,981
150.40	19,574	9,577	42,558
150.90	20,428	10,001	52,559
151.40	21,297	10,431	62,990
151.90	22,181	10,870	73,860
152.40	23,080	11,315	85,175
152.90	23,993	11,768	96,943
153.40	24,920	12,228	109,171
153.90	25,863	12,696	121,867
154.40	26,819	13,171	135,038

Device	Routing	Invert	Outlet Devices
#1	Primary	153.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.98' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 46P: Basin 1B Infiltration



Summary for Pond 48P: Basin 1A Infiltration Basin

Inflow Area = 562,771 sf, 15.53% Impervious, Inflow Depth = 0.43" for 2-year_current event
Inflow = 4.28 cfs @ 12.09 hrs, Volume= 20,011 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 150.88' @ 72.00 hrs Surf.Area= 23,685 sf Storage= 20,009 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

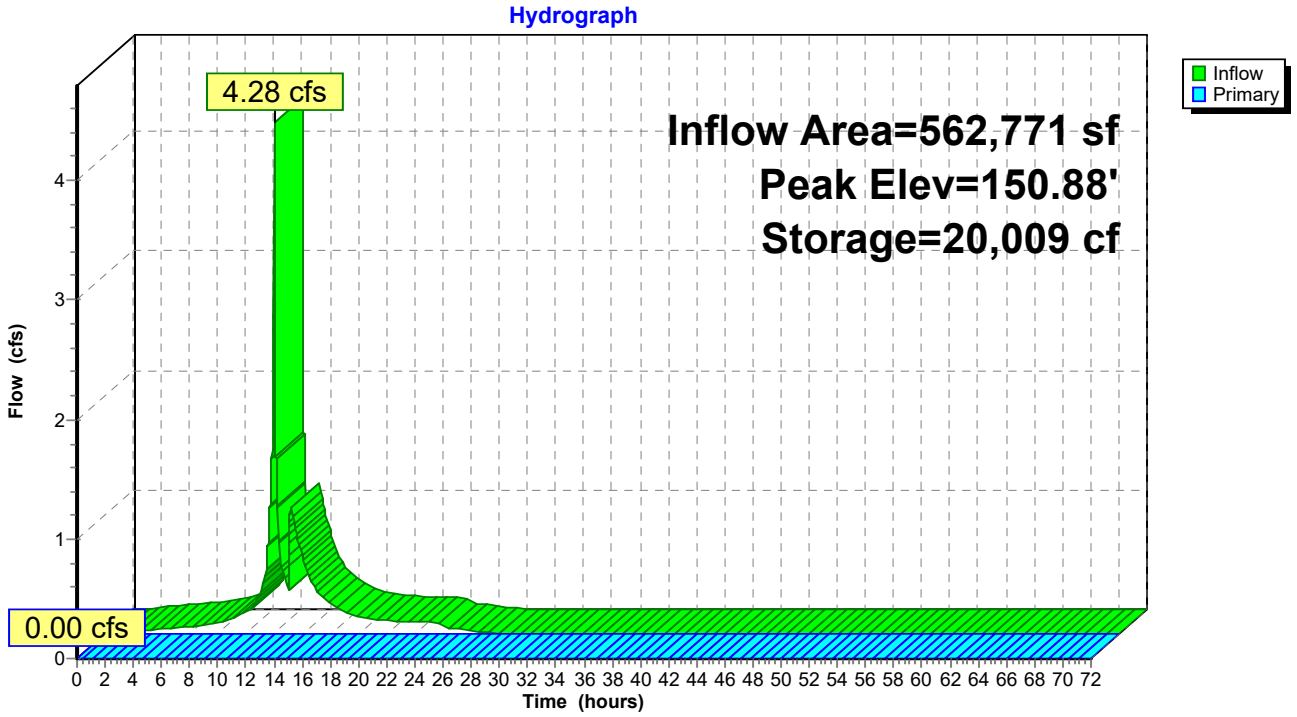
Volume	Invert	Avail.Storage	Storage Description
#1	150.00'	298,930 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.00	21,799	0	0
150.20	22,236	4,403	4,403
150.70	23,295	11,383	15,786
151.20	24,380	11,919	27,705
151.70	25,491	12,468	40,173
152.20	26,624	13,029	53,201
152.70	27,774	13,600	66,801
153.20	28,940	14,179	80,979
153.70	30,120	14,765	95,744
154.20	31,316	15,359	111,103
154.70	32,526	15,961	127,064
155.20	33,749	16,569	143,633
155.70	34,987	17,184	160,817
156.20	36,240	17,807	178,623
156.70	37,506	18,437	197,060
157.20	38,786	19,073	216,133
157.70	40,081	19,717	235,850
158.20	41,390	20,368	256,217
158.70	42,718	21,027	277,244
159.20	44,026	21,686	298,930

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**30.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' (Free Discharge)
↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 48P: Basin 1A Infiltration Basin



Summary for Pond 51P: Basin 4 Bioretention

[79] Warning: Submerged Pond 39P Primary device # 1 INLET by 1.06'

Inflow Area = 148,627 sf, 52.11% Impervious, Inflow Depth = 0.97" for 2-year_current event
Inflow = 2.07 cfs @ 12.53 hrs, Volume= 12,054 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 156.06' @ 71.89 hrs Surf.Area= 5,335 sf Storage= 12,054 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

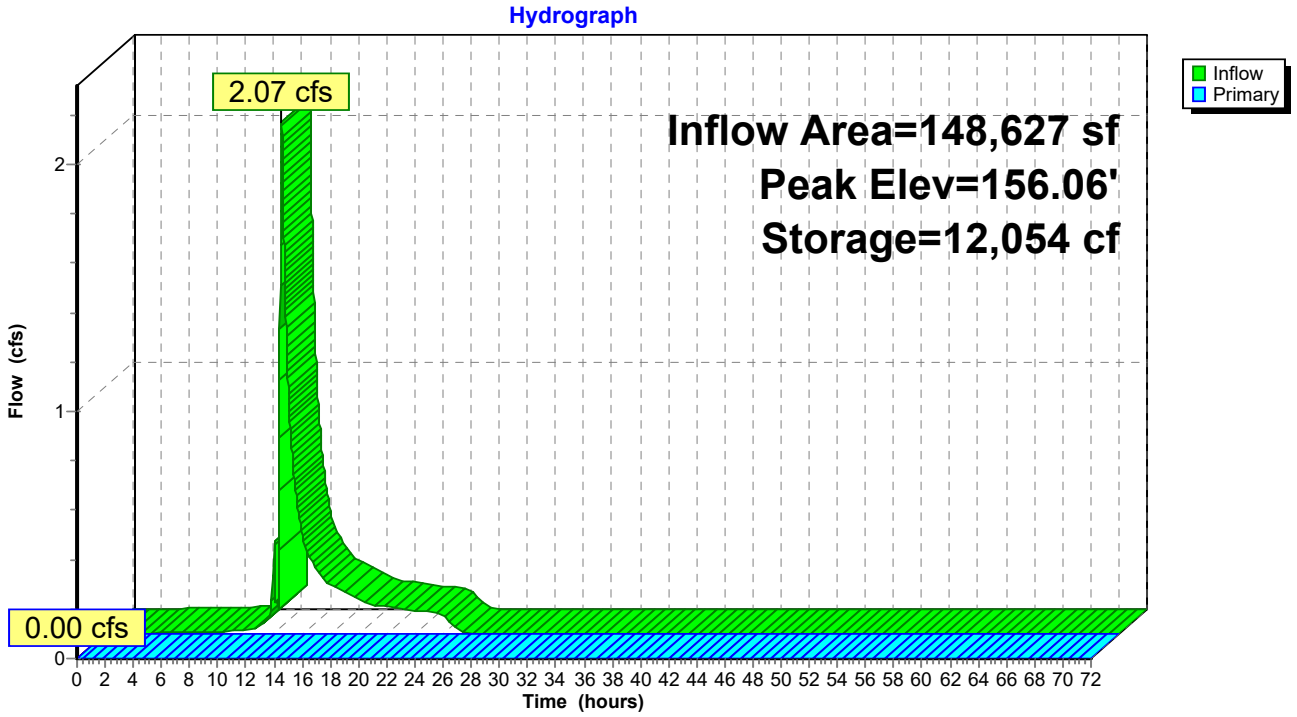
Volume	Invert	Avail.Storage	Storage Description
#1	153.00'	36,070 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.00	2,922	0	0
153.90	3,287	2,794	2,794
154.40	3,735	1,756	4,550
154.90	4,199	1,984	6,533
155.40	4,678	2,219	8,752
155.90	5,172	2,463	11,215
156.40	5,682	2,714	13,928
156.50	6,207	594	14,523
156.90	6,314	2,504	17,027
157.40	6,748	3,266	20,292
157.90	7,305	3,513	23,806
158.40	7,877	3,796	27,601
158.90	8,465	4,086	31,687
159.40	9,068	4,383	36,070

Device	Routing	Invert	Outlet Devices
#1	Device 2	156.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	153.00'	**24.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 153.00' / 152.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=153.00' (Free Discharge)
↑**2=Culvert** (Controls 0.00 cfs)
↑**1=Orifice/Grate** (Controls 0.00 cfs)

Pond 51P: Basin 4 Bioretention



Summary for Pond 52P: Basin 4 Infiltration

[79] Warning: Submerged Pond 51P Primary device # 2 INLET by 0.11'

Inflow Area = 180,774 sf, 56.17% Impervious, Inflow Depth = 0.44" for 2-year_current event
Inflow = 1.96 cfs @ 12.09 hrs, Volume= 6,567 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 153.11' @ 25.81 hrs Surf.Area= 9,908 sf Storage= 6,567 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

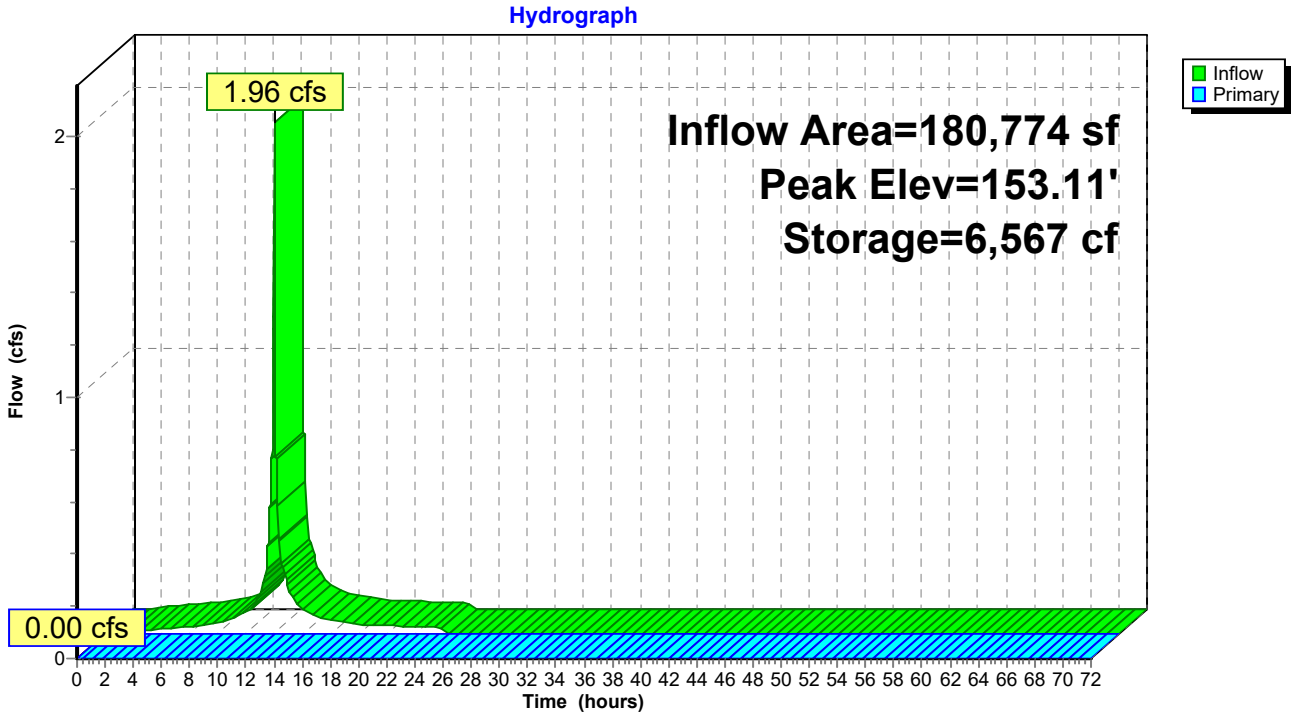
Volume	Invert	Avail.Storage	Storage Description
#1	152.40'	98,072 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
152.40	8,570	0	0
152.90	9,506	4,519	4,519
153.40	10,459	4,991	9,510
153.90	11,430	5,472	14,983
154.40	12,419	5,962	20,945
154.90	13,426	6,461	27,406
155.40	14,449	6,969	34,375
155.90	15,490	7,485	41,860
156.40	16,547	8,009	49,869
156.90	17,620	8,542	58,411
157.40	18,711	9,083	67,493
157.90	19,818	9,632	77,126
158.40	20,943	10,190	87,316
158.90	22,081	10,756	98,072

Device	Routing	Invert	Outlet Devices
#1	Primary	158.80'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.40' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 52P: Basin 4 Infiltration



Summary for Pond 60P: Basin 3 Bioretention

[79] Warning: Submerged Pond 38P Primary device # 2 OUTLET by 0.14'

Inflow Area = 110,642 sf, 4.41% Impervious, Inflow Depth = 0.26" for 2-year_current event
Inflow = 0.32 cfs @ 12.09 hrs, Volume= 2,389 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 143.64' @ 71.55 hrs Surf.Area= 3,953 sf Storage= 2,389 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

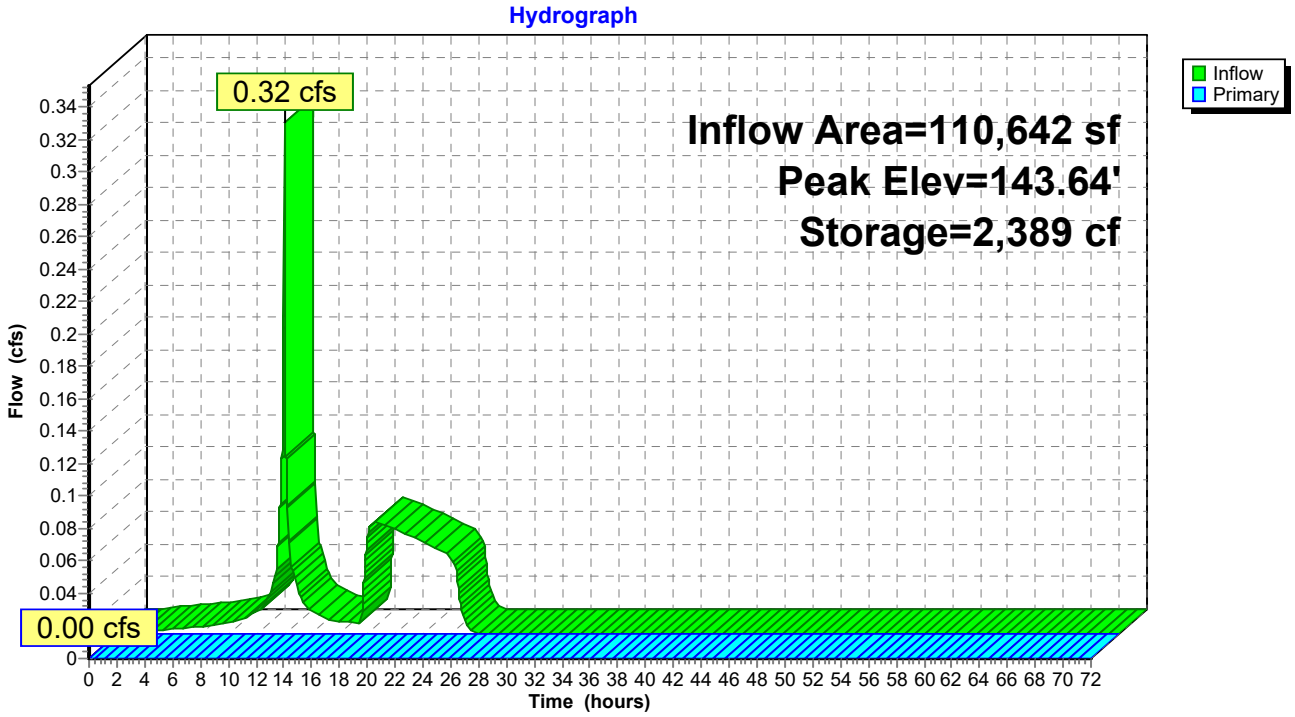
Volume	Invert	Avail.Storage	Storage Description
#1	143.00'	27,552 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.00	3,477	0	0
143.50	3,844	1,830	1,830
144.00	4,224	2,017	3,847
144.50	4,619	2,211	6,058
145.00	5,028	2,412	8,470
145.50	5,450	2,620	11,089
146.00	5,887	2,834	13,924
146.50	6,339	3,057	16,980
147.00	6,804	3,286	20,266
147.50	7,283	3,522	23,788
148.00	7,776	3,765	27,552

Device	Routing	Invert	Outlet Devices
#1	Primary	146.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Device 1	143.00'	**18.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 143.00' / 142.00' S= 0.0227 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.00' (Free Discharge)
↑**1=Orifice/Grate** (Controls 0.00 cfs)
↑**2=Culvert** (Controls 0.00 cfs)

Pond 60P: Basin 3 Bioretention



Summary for Pond 61P: Basin 3 Infiltration

Inflow Area = 126,803 sf, 16.59% Impervious, Inflow Depth = 0.40" for 2-year_current event
Inflow = 1.32 cfs @ 12.09 hrs, Volume= 4,265 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 142.39' @ 24.01 hrs Surf.Area= 11,186 sf Storage= 4,265 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

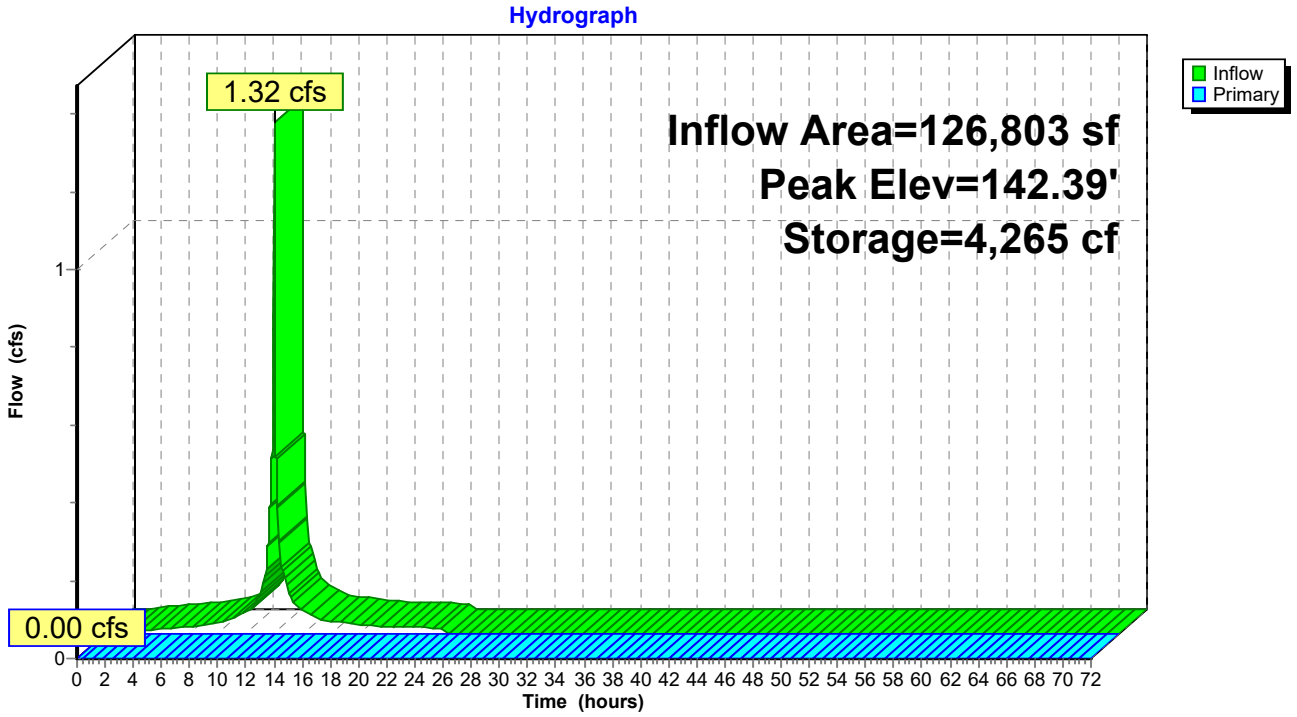
Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	66,946 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
142.00	10,684	0	0
142.30	11,069	3,263	3,263
142.80	11,719	5,697	8,960
143.30	12,382	6,025	14,985
143.80	13,060	6,361	21,346
144.30	13,752	6,703	28,049
144.80	14,458	7,053	35,101
145.30	15,177	7,409	42,510
145.80	15,912	7,772	50,282
146.30	16,660	8,143	58,425
146.80	17,422	8,521	66,946

Device	Routing	Invert	Outlet Devices
#1	Primary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 61P: Basin 3 Infiltration



Summary for Pond 65P: Basin 2B Forebay

Inflow Area = 383,157 sf, 7.33% Impervious, Inflow Depth = 0.24" for 2-year_current event
Inflow = 0.76 cfs @ 12.88 hrs, Volume= 7,545 cf
Outflow = 0.44 cfs @ 13.43 hrs, Volume= 3,482 cf, Atten= 42%, Lag= 32.9 min
Primary = 0.44 cfs @ 13.43 hrs, Volume= 3,482 cf
Routed to Pond 66P : Basin 2B Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.56' @ 13.43 hrs Surf.Area= 2,430 sf Storage= 4,201 cf

Plug-Flow detention time= 349.8 min calculated for 3,482 cf (46% of inflow)
Center-of-Mass det. time= 182.0 min (1,013.7 - 831.7)

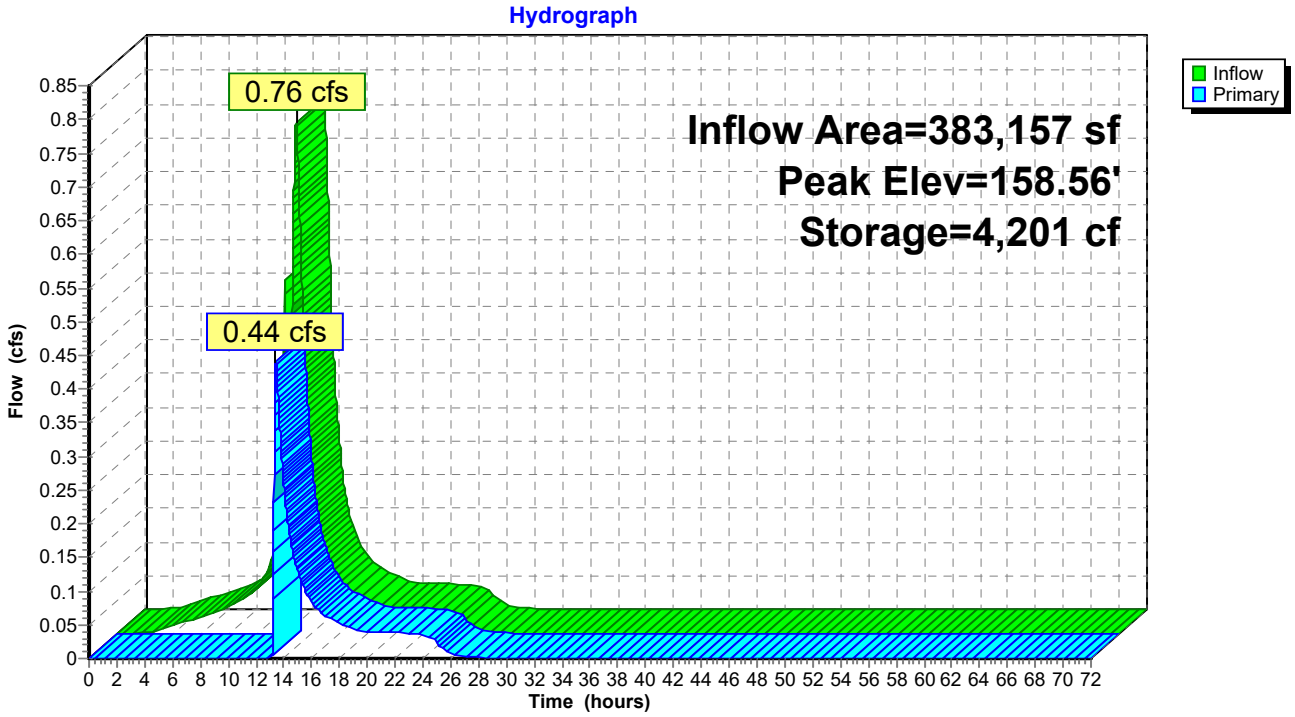
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	8,105 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	928	0	0
156.40	1,136	413	413
156.90	1,406	636	1,048
157.40	1,694	775	1,823
157.90	2,000	924	2,747
158.40	2,324	1,081	3,828
158.50	2,391	236	4,064
158.90	2,666	1,011	5,075
159.40	3,026	1,423	6,498
159.90	3,404	1,608	8,105

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf
#3	Primary	159.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.42 cfs @ 13.43 hrs HW=158.56' (Free Discharge)
- **2=Culvert** (Passes 0.42 cfs of 14.90 cfs potential flow)
  - **1=Orifice/Grate** (Weir Controls 0.42 cfs @ 0.78 fps)
- **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 65P: Basin 2B Forebay



Summary for Pond 66P: Basin 2B Infiltration Basin

Inflow Area = 435,255 sf, 18.42% Impervious, Inflow Depth = 0.48" for 2-year_current event
Inflow = 4.24 cfs @ 12.09 hrs, Volume= 17,230 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 151.52' @ 72.00 hrs Surf.Area= 33,641 sf Storage= 17,229 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

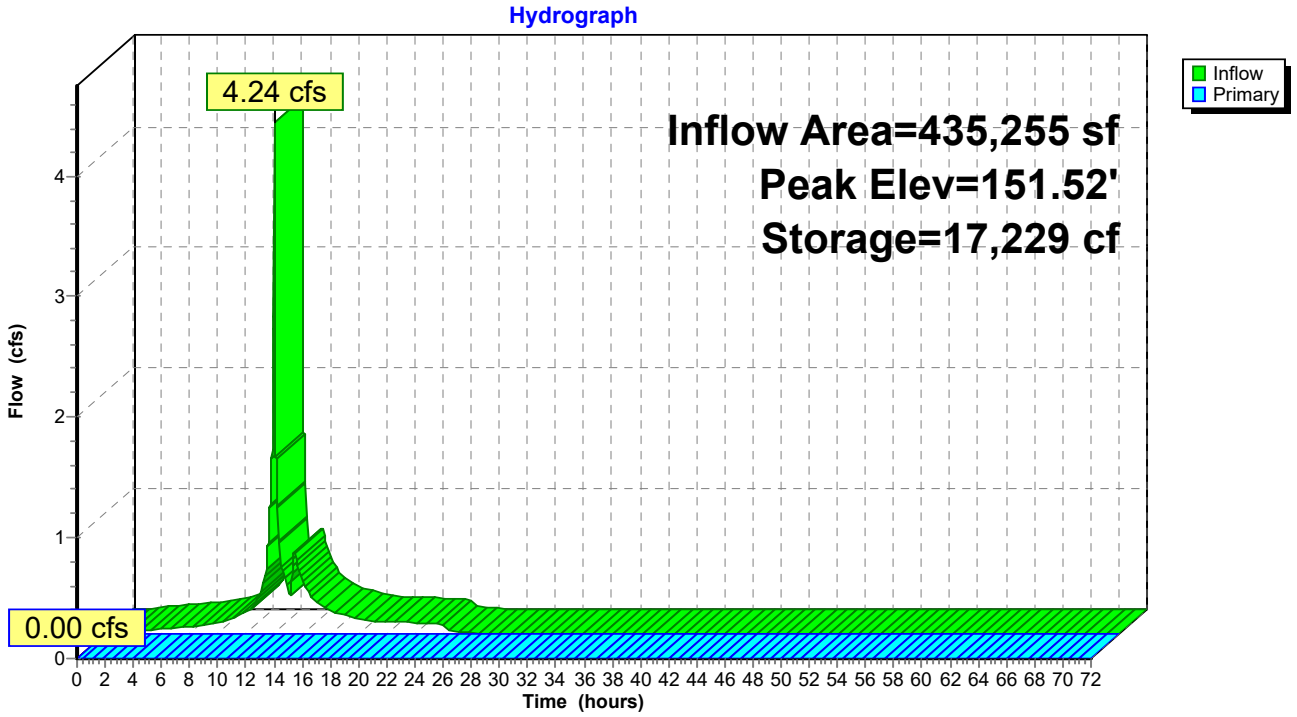
Volume	Invert	Avail.Storage	Storage Description
#1	151.00'	213,861 cf	**Basin 2B Infiltration Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
151.00	32,211	0	0
151.40	33,314	13,105	13,105
151.90	34,642	16,989	30,094
152.40	35,983	17,656	47,750
152.90	37,338	18,330	66,081
153.40	38,708	19,012	85,092
153.90	40,091	19,700	104,792
154.40	41,489	20,395	125,187
154.90	42,901	21,098	146,284
155.40	44,326	21,807	168,091
155.90	45,767	22,523	190,614
156.40	47,221	23,247	213,861

Device	Routing	Invert	Outlet Devices
#1	Primary	155.70'	**30.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=151.00' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 66P: Basin 2B Infiltration Basin



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 23S: Basin 1B Runoff Area=2.391 ac 91.22% Impervious Runoff Depth=4.65"
Flow Length=373' Tc=3.1 min CN=WQ Runoff=11.97 cfs 40,364 cf

Subcatchment 24S: Basin 2A West Runoff Area=1.263 ac 69.91% Impervious Runoff Depth=3.63"
Flow Length=246' Tc=2.2 min CN=WQ Runoff=4.91 cfs 16,628 cf

Subcatchment 25S: Basin 2A East Runoff Area=1.175 ac 71.06% Impervious Runoff Depth=3.68"
Flow Length=370' Tc=3.4 min CN=WQ Runoff=4.57 cfs 15,705 cf

Subcatchment 29S: Basin 2B West Runoff Area=4.192 ac 6.25% Impervious Runoff Depth=0.57"
Flow Length=525' Slope=0.0307 '/' Tc=17.5 min CN=WQ Runoff=0.94 cfs 8,635 cf

Subcatchment 30S: Basin 1A Central Runoff Area=5.749 ac 6.24% Impervious Runoff Depth=0.57"
Flow Length=512' Tc=17.7 min CN=WQ Runoff=1.28 cfs 11,836 cf

Subcatchment 31S: Basin 2B East Runoff Area=195,980 sf 6.17% Impervious Runoff Depth=0.56"
Flow Length=489' Slope=0.0301 '/' Tc=17.1 min CN=WQ Runoff=1.00 cfs 9,201 cf

Subcatchment 32S: undeveloped run on to Runoff Area=3,384 sf 0.00% Impervious Runoff Depth=1.14"
Tc=0.0 min CN=55 Runoff=0.12 cfs 321 cf

Subcatchment 33S: undeveloped run on to Runoff Area=3,576 sf 0.00% Impervious Runoff Depth=1.14"
Tc=0.0 min CN=55 Runoff=0.13 cfs 339 cf

Subcatchment 37S: Basin 3 Runoff Area=2.428 ac 0.00% Impervious Runoff Depth=1.80"
Flow Length=359' Tc=15.0 min CN=WQ Runoff=3.59 cfs 15,821 cf

Subcatchment 39S: Basin 1A East Runoff Area=182,579 sf 6.17% Impervious Runoff Depth=0.56"
Flow Length=413' Tc=16.1 min CN=WQ Runoff=0.96 cfs 8,572 cf

Subcatchment 40S: Basin 1A West Runoff Area=1.696 ac 6.25% Impervious Runoff Depth=0.57"
Flow Length=256' Slope=0.0267 '/' Tc=14.6 min CN=WQ Runoff=0.41 cfs 3,493 cf

Subcatchment 41S: Basin 4 East Runoff Area=0.868 ac 57.37% Impervious Runoff Depth=3.02"
Flow Length=329' Tc=3.2 min CN=WQ Runoff=2.74 cfs 9,529 cf

Subcatchment 42S: Basin 4 West Runoff Area=1.605 ac 65.73% Impervious Runoff Depth=3.43"
Flow Length=255' Slope=0.0284 '/' Tc=1.8 min CN=WQ Runoff=5.87 cfs 19,960 cf

Subcatchment 46S: Direct Rainfall Basin Runoff Area=0.311 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=1.73 cfs 5,727 cf

Subcatchment 47S: Direct Rainfall Basin Runoff Area=1.128 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=6.28 cfs 20,771 cf

Subcatchment 48S: Direct Rainfall Basin Runoff Area=0.191 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=1.06 cfs 3,517 cf

Subcatchment 49S: Direct Rainfall Basin Runoff Area=1.208 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=6.72 cfs 22,244 cf

Subcatchment 50S: Direct Rainfall Basin Runoff Area=0.690 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=3.84 cfs 12,706 cf

Subcatchment 52S: Direct Rainfall Basin Runoff Area=0.075 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=0.42 cfs 1,381 cf

Subcatchment 54S: Direct Rainfall Basin Runoff Area=8,189 sf 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=1.05 cfs 3,462 cf

Subcatchment 55S: Direct Rainfall Basin 3 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=0.13 cfs 424 cf

Subcatchment 56S: Direct Rainfall Basin Runoff Area=0.153 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=0.85 cfs 2,817 cf

Subcatchment 57S: Direct Rainfall Basin 4 Runoff Area=0.119 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=0.66 cfs 2,191 cf

Subcatchment 58S: Direct forest Runoff Area=0.714 ac 0.00% Impervious Runoff Depth=1.14"
Flow Length=234' Tc=40.9 min CN=55 Runoff=0.35 cfs 2,950 cf

Subcatchment 59S: Direct Rainfall Basin 4 Runoff Area=0.553 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=3.08 cfs 10,183 cf

Subcatchment 62S: Direct Rainfall Basin 3 Runoff Area=0.371 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=2.06 cfs 6,832 cf

Subcatchment 65S: Direct Rainfall Basin 3 Runoff Area=0.089 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=0.50 cfs 1,639 cf

Subcatchment 69S: Direct Rainfall Basin Runoff Area=0.105 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=0.58 cfs 1,933 cf

Subcatchment 70S: Direct Rainfall Basin Runoff Area=1.196 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=6.66 cfs 22,023 cf

Subcatchment 71S: Direct Rainfall to Runoff Area=0.106 ac 100.00% Impervious Runoff Depth=5.07"
Tc=0.0 min CN=98 Runoff=0.59 cfs 1,952 cf

Subcatchment 74S: Direct forest runoff to Runoff Area=0.185 ac 0.00% Impervious Runoff Depth=1.14"
Flow Length=152' Tc=31.9 min CN=55 Runoff=0.11 cfs 764 cf

Reach 29R: DA1A East Swale Avg. Flow Depth=0.27' Max Vel=0.42 fps Inflow=0.96 cfs 8,572 cf
n=0.080 L=835.0' S=0.0073 '/' Capacity=113.94 cfs Outflow=0.55 cfs 8,572 cf

Reach 30R: DA1A West Swale Avg. Flow Depth=0.36' Max Vel=0.36 fps Inflow=1.34 cfs 15,330 cf
n=0.080 L=650.0' S=0.0038 '/' Capacity=82.67 cfs Outflow=0.84 cfs 15,330 cf

Reach 31R: DA2B East Swale Avg. Flow Depth=0.28' Max Vel=0.45 fps Inflow=1.00 cfs 9,201 cf
n=0.080 L=737.0' S=0.0083 '/' Capacity=121.27 cfs Outflow=0.63 cfs 9,201 cf

Reach 33R: DA2B West Swale Avg. Flow Depth=0.33' Max Vel=0.35 fps Inflow=0.94 cfs 8,635 cf
n=0.080 L=384.0' S=0.0039 '/' Capacity=83.31 cfs Outflow=0.68 cfs 8,635 cf

Reach 34R: DA4 West Swale Avg. Flow Depth=0.63' Max Vel=0.56 fps Inflow=5.87 cfs 19,960 cf
n=0.080 L=357.0' S=0.0042 '/' Capacity=86.41 cfs Outflow=4.04 cfs 19,960 cf

Reach 35R: DA2A West Swale Avg. Flow Depth=0.54' Max Vel=0.58 fps Inflow=4.91 cfs 16,628 cf
n=0.080 L=478.0' S=0.0056 '/' Capacity=100.19 cfs Outflow=3.04 cfs 16,628 cf

Reach 36R: DA2A East Swale Avg. Flow Depth=0.50' Max Vel=0.96 fps Inflow=4.57 cfs 15,705 cf
n=0.080 L=146.0' S=0.0171 '/' Capacity=174.43 cfs Outflow=4.29 cfs 15,705 cf

Reach 37R: DA1B Swale Avg. Flow Depth=0.81' Max Vel=0.74 fps Inflow=11.97 cfs 40,364 cf
n=0.080 L=383.0' S=0.0052 '/' Capacity=96.33 cfs Outflow=8.76 cfs 40,364 cf

Reach 38R: DA3 Swale Avg. Flow Depth=0.70' Max Vel=2.32 fps Inflow=3.59 cfs 15,821 cf
n=0.049 L=418.0' S=0.0251 '/' Capacity=55.69 cfs Outflow=3.45 cfs 15,821 cf

Reach 39R: DA 1A Central Swale A Avg. Flow Depth=0.21' Max Vel=0.30 fps Inflow=0.41 cfs 3,493 cf
n=0.080 L=498.0' S=0.0050 '/' Capacity=94.45 cfs Outflow=0.24 cfs 3,493 cf

Reach 41R: DA 1A Central Swale B Avg. Flow Depth=0.30' Max Vel=0.90 fps Inflow=0.24 cfs 3,493 cf
n=0.080 L=188.0' S=0.0319 '/' Capacity=38.45 cfs Outflow=0.24 cfs 3,493 cf

Reach 42R: DA4 East Swale Avg. Flow Depth=0.43' Max Vel=0.77 fps Inflow=2.74 cfs 9,529 cf
n=0.080 L=114.0' S=0.0132 '/' Capacity=152.91 cfs Outflow=2.57 cfs 9,529 cf

Reach 43R: DA4 Roadside swale Avg. Flow Depth=0.42' Max Vel=2.21 fps Inflow=4.04 cfs 19,960 cf
n=0.049 L=103.0' S=0.0243 '/' Capacity=73.85 cfs Outflow=4.00 cfs 19,960 cf

Reach 44R: DA4 Culvert Inflow=4.00 cfs 19,960 cf
Outflow=4.00 cfs 19,960 cf

Reach 45R: DA2B Road Swale Avg. Flow Depth=0.00' Max Vel=0.00 fps
n=0.080 L=296.0' S=0.0287 '/' Capacity=36.47 cfs Outflow=0.00 cfs 0 cf

Pond 15P: Basin 1A Forebay Peak Elev=158.93' Storage=3,462 cf Inflow=1.42 cfs 25,283 cf
Outflow=1.42 cfs 22,045 cf

Pond 18P: Basin 1B Forebay Peak Elev=158.91' Storage=12,103 cf Inflow=9.01 cfs 43,503 cf
Primary=8.18 cfs 33,493 cf Secondary=0.00 cfs 0 cf Outflow=8.18 cfs 33,493 cf

Pond 26P: Basin 2A Forebay Peak Elev=158.01' Storage=8,817 cf Inflow=5.91 cfs 35,795 cf
Primary=5.37 cfs 28,549 cf Secondary=0.00 cfs 0 cf Outflow=5.37 cfs 28,549 cf

Pond 38P: Basin 3 Forebay Peak Elev=145.64' Storage=6,046 cf Inflow=3.47 cfs 16,245 cf
Primary=1.59 cfs 10,787 cf Secondary=0.00 cfs 0 cf Outflow=1.59 cfs 10,787 cf

Pond 39P: Basin 4 Forebay Peak Elev=158.29' Storage=10,432 cf Inflow=5.02 cfs 31,680 cf
Primary=4.82 cfs 22,470 cf Secondary=0.00 cfs 0 cf Outflow=4.82 cfs 22,470 cf

Pond 43P: Basin 1B Bioretention	Peak Elev=157.64' Storage=21,027 cf	Inflow=8.40 cfs 37,350 cf Outflow=1.65 cfs 17,363 cf
Pond 44P: Basin 2A Bioretention	Peak Elev=157.58' Storage=23,344 cf	Inflow=5.93 cfs 34,276 cf Outflow=0.69 cfs 11,592 cf
Pond 45P: Basin 2A Infiltration	Peak Elev=152.04' Storage=32,361 cf	Inflow=6.28 cfs 32,363 cf Outflow=0.00 cfs 0 cf
Pond 46P: Basin 1B Infiltration	Peak Elev=149.74' Storage=30,067 cf	Inflow=3.84 cfs 30,068 cf Outflow=0.00 cfs 0 cf
Pond 48P: Basin 1A Infiltration Basin	Peak Elev=151.86' Storage=44,288 cf	Inflow=6.92 cfs 44,289 cf Outflow=0.00 cfs 0 cf
Pond 51P: Basin 4 Bioretention	Peak Elev=156.60' Storage=15,137 cf	Inflow=5.14 cfs 27,372 cf Outflow=0.98 cfs 12,849 cf
Pond 52P: Basin 4 Infiltration	Peak Elev=154.63' Storage=23,796 cf	Inflow=3.09 cfs 23,796 cf Outflow=0.00 cfs 0 cf
Pond 60P: Basin 3 Bioretention	Peak Elev=145.74' Storage=12,425 cf	Inflow=1.65 cfs 12,426 cf Outflow=0.00 cfs 0 cf
Pond 61P: Basin 3 Infiltration	Peak Elev=142.62' Storage=6,831 cf	Inflow=2.06 cfs 6,832 cf Outflow=0.00 cfs 0 cf
Pond 65P: Basin 2B Forebay	Peak Elev=158.62' Storage=4,360 cf	Inflow=1.33 cfs 19,769 cf Outflow=1.32 cfs 15,706 cf
Pond 66P: Basin 2B Infiltration Basin	Peak Elev=152.12' Storage=37,728 cf	Inflow=6.66 cfs 37,729 cf Outflow=0.00 cfs 0 cf

Total Runoff Area = 1,638,827 sf Runoff Volume = 283,922 cf Average Runoff Depth = 2.08"
64.86% Pervious = 1,062,927 sf 35.14% Impervious = 575,900 sf

Summary for Subcatchment 23S: Basin 1B

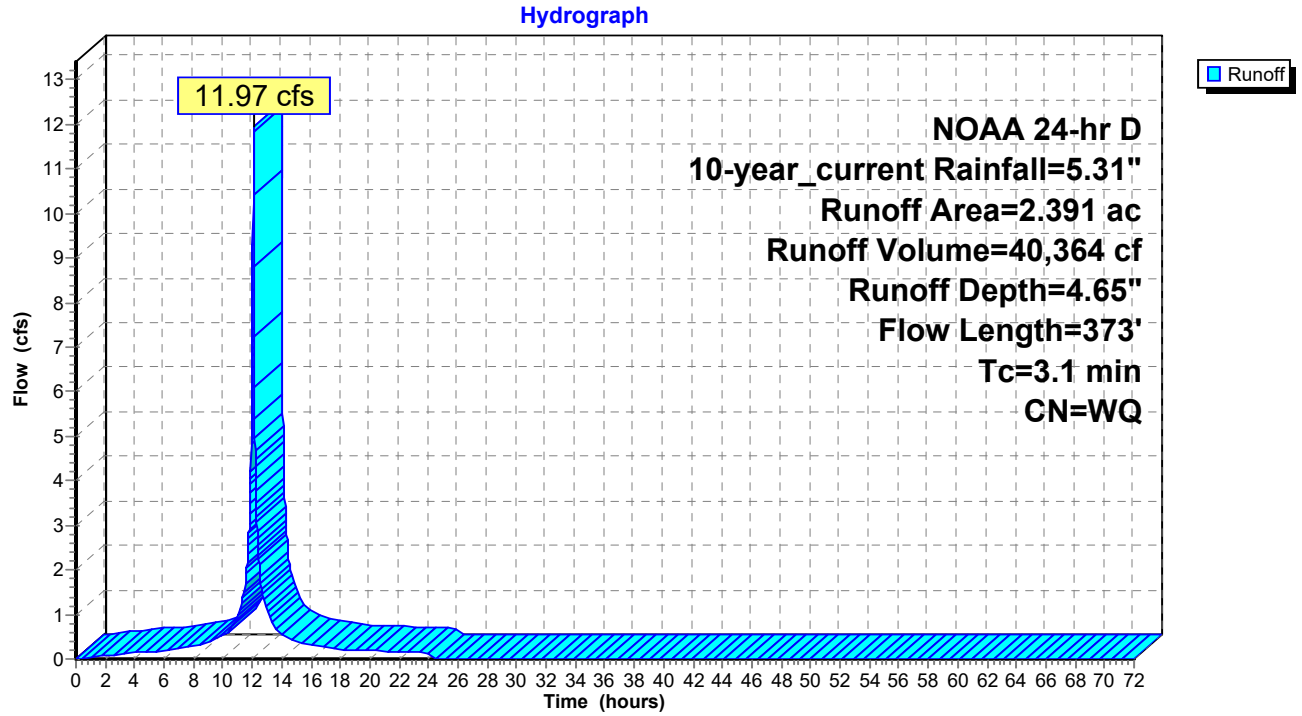
Runoff = 11.97 cfs @ 12.10 hrs, Volume= 40,364 cf, Depth= 4.65"
Routed to Reach 37R : DA1B Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
	0.210	39	>75% Grass cover, Good, HSG A
*	0.084	98	gravel road
*	2.097	98	compost/recycling area
	2.391		Weighted Average
	0.210	39	8.78% Pervious Area
	2.181	98	91.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0282	1.63		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
1.0	195	0.0282	3.41		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.1	78	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.1	373	Total			

Subcatchment 23S: Basin 1B



Summary for Subcatchment 24S: Basin 2A West

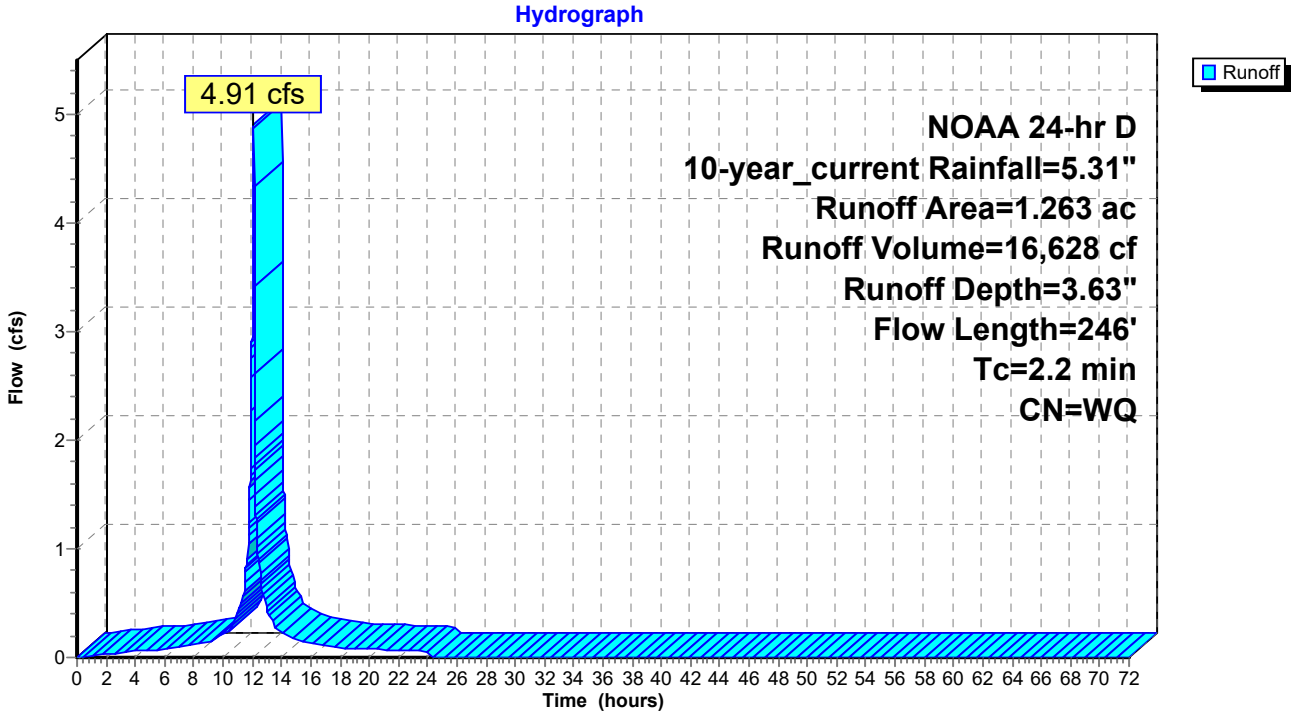
Runoff = 4.91 cfs @ 12.10 hrs, Volume= 16,628 cf, Depth= 3.63"
Routed to Reach 35R : DA2A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.380	39	grass cover
*	0.883	98	compost area
	1.263		Weighted Average
	0.380	39	30.09% Pervious Area
	0.883	98	69.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0303	1.67		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.4	85	0.0303	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.8	61	0.0309	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.2	246	Total			

Subcatchment 24S: Basin 2A West



Summary for Subcatchment 25S: Basin 2A East

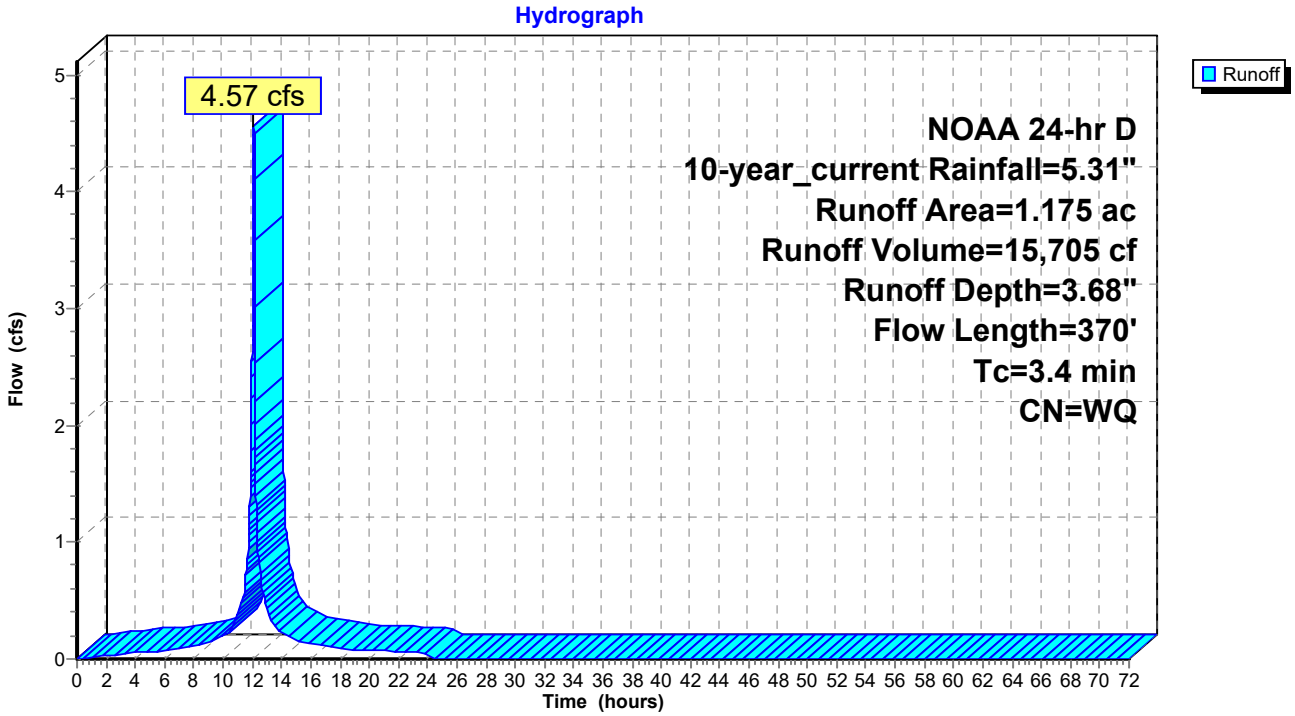
Runoff = 4.57 cfs @ 12.11 hrs, Volume= 15,705 cf, Depth= 3.68"
Routed to Reach 36R : DA2A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.223	98	gravel road
*	0.612	98	compost area
*	0.340	39	grass cover
	1.175		Weighted Average
	0.340	39	28.94% Pervious Area
	0.835	98	71.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0300	1.67		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.6	136	0.0302	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	134	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	370	Total			

Subcatchment 25S: Basin 2A East



Summary for Subcatchment 29S: Basin 2B West

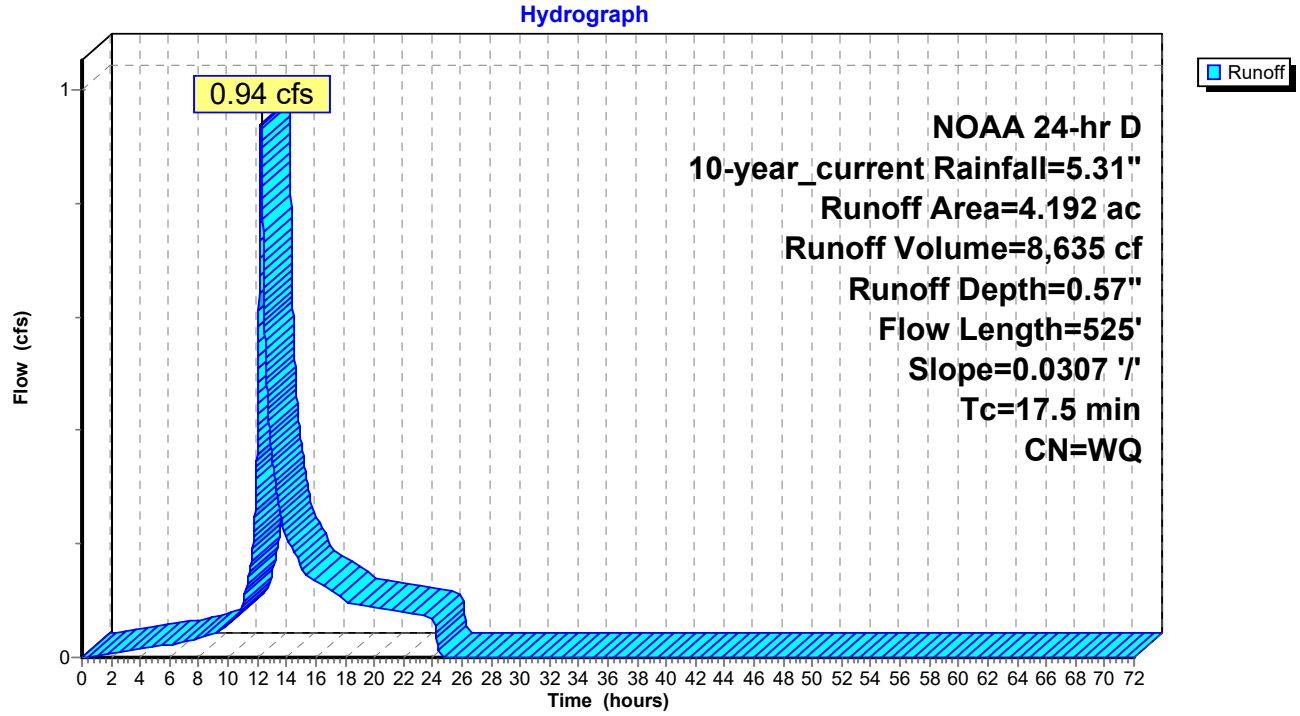
Runoff = 0.94 cfs @ 12.26 hrs, Volume= 8,635 cf, Depth= 0.57"
Routed to Reach 33R : DA2B West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
	3.930	39	>75% Grass cover, Good, HSG A
*	0.262	98	Solar
	4.192		Weighted Average
	3.930	39	93.75% Pervious Area
	0.262	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	100	0.0307	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.8	425	0.0307	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.5	525	Total			

Subcatchment 29S: Basin 2B West



Summary for Subcatchment 30S: Basin 1A Central

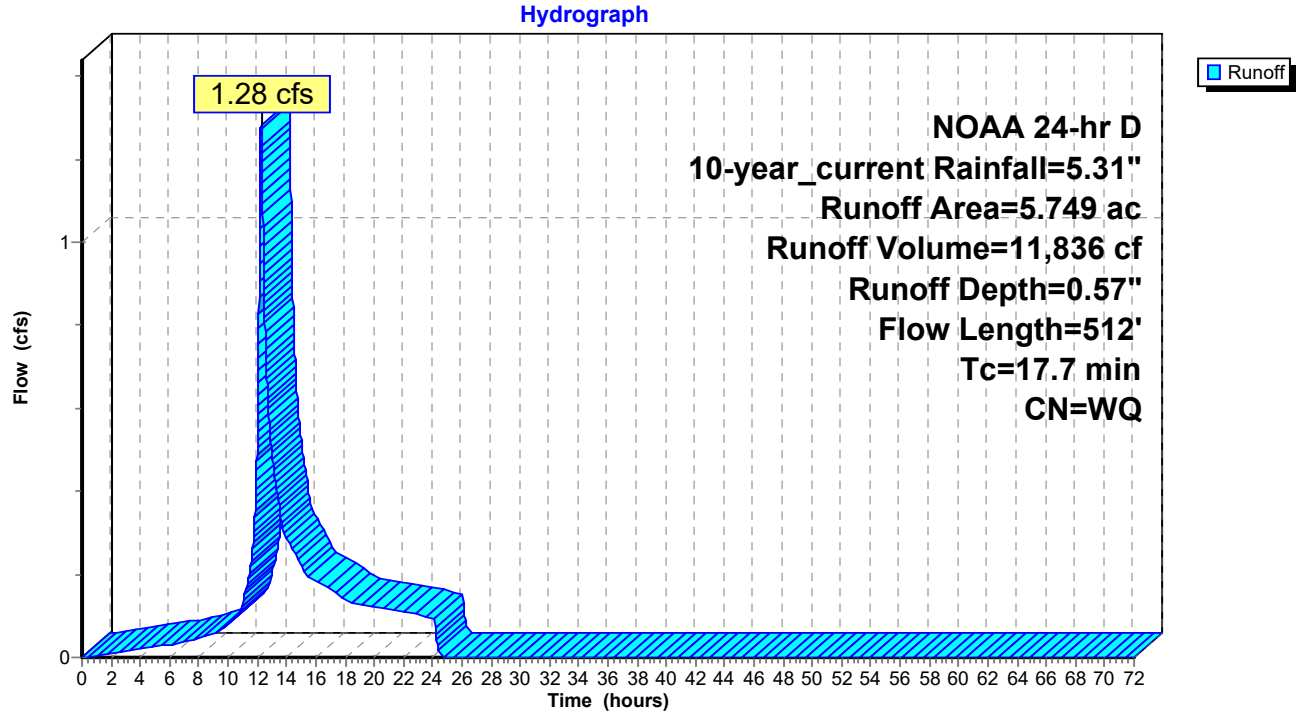
Runoff = 1.28 cfs @ 12.26 hrs, Volume= 11,836 cf, Depth= 0.57"
Routed to Reach 30R : DA1A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.359	98	solar
*	5.390	39	grass
	5.749		Weighted Average
	5.390	39	93.76% Pervious Area
	0.359	98	6.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.9	100	0.0291	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.8	412	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.7	512	Total			

Subcatchment 30S: Basin 1A Central



Summary for Subcatchment 31S: Basin 2B East

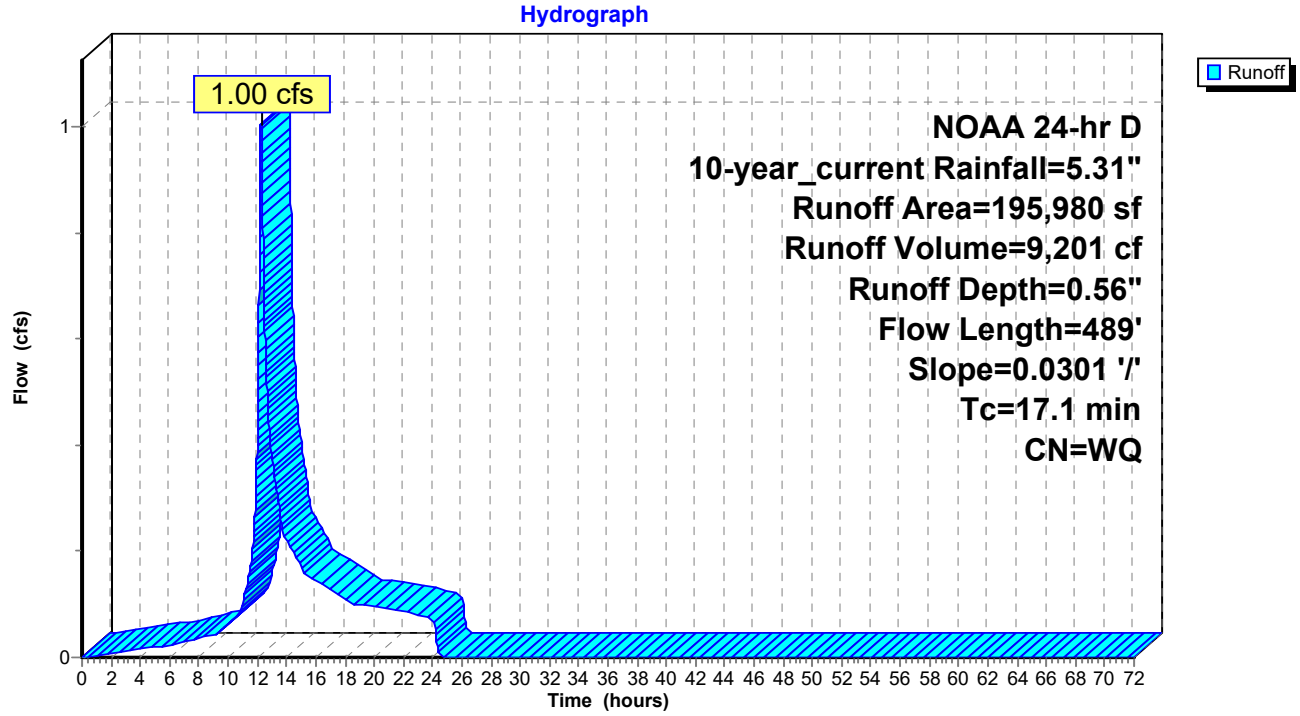
Runoff = 1.00 cfs @ 12.25 hrs, Volume= 9,201 cf, Depth= 0.56"
Routed to Reach 31R : DA2B East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (sf)	CN	Description
	183,896	39	>75% Grass cover, Good, HSG A
*	12,084	98	Solar
	195,980		Weighted Average
	183,896	39	93.83% Pervious Area
	12,084	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	100	0.0301	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.3	389	0.0301	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.1	489	Total			

Subcatchment 31S: Basin 2B East



Summary for Subcatchment 32S: undeveloped run on to forebay

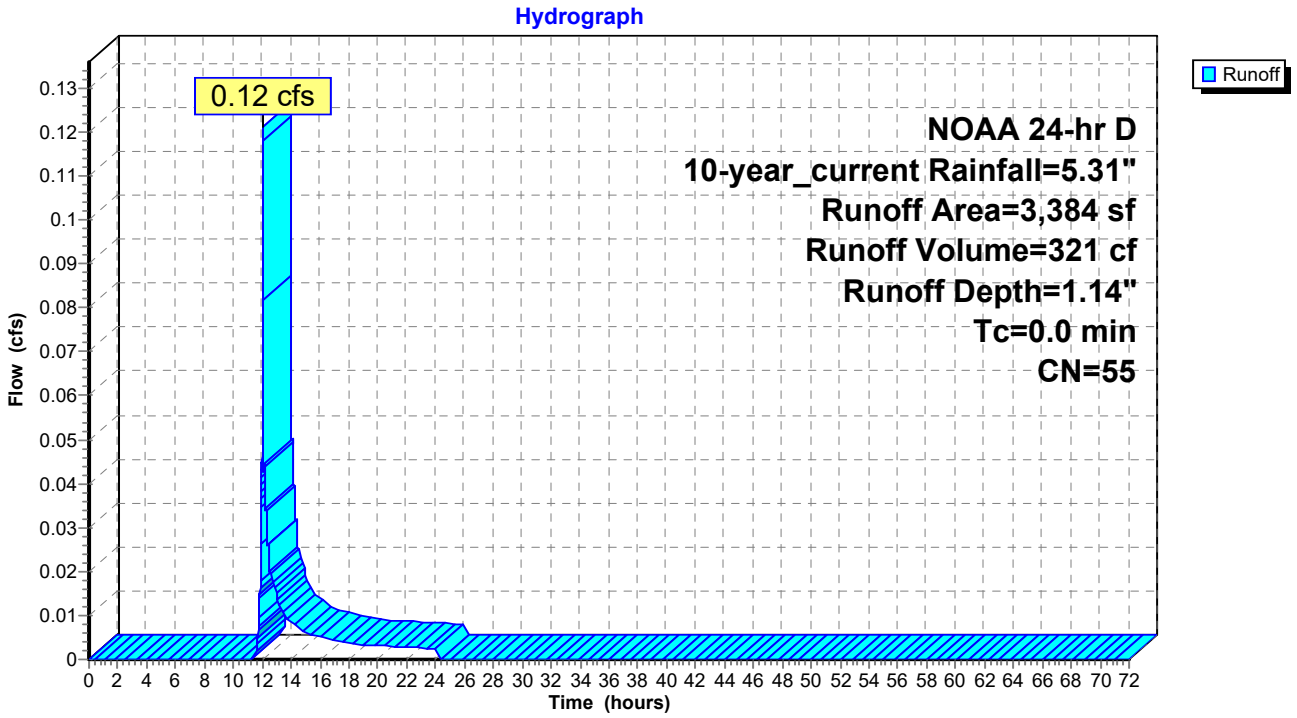
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 321 cf, Depth= 1.14"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (sf)	CN	Description
*	3,384	55	
	3,384	55	100.00% Pervious Area

Subcatchment 32S: undeveloped run on to forebay



Summary for Subcatchment 33S: undeveloped run on to bioretention

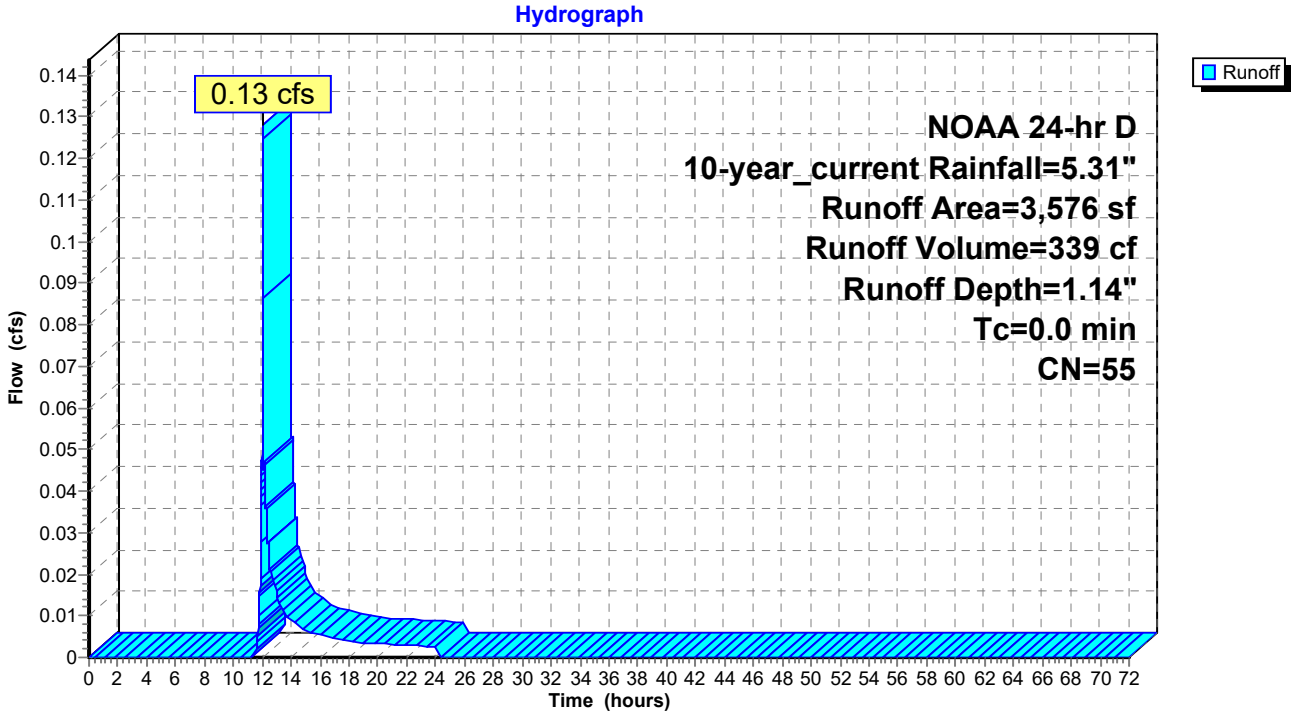
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 339 cf, Depth= 1.14"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (sf)	CN	Description
*	3,576	55	
	3,576	55	100.00% Pervious Area

Subcatchment 33S: undeveloped run on to bioretention



Summary for Subcatchment 37S: Basin 3

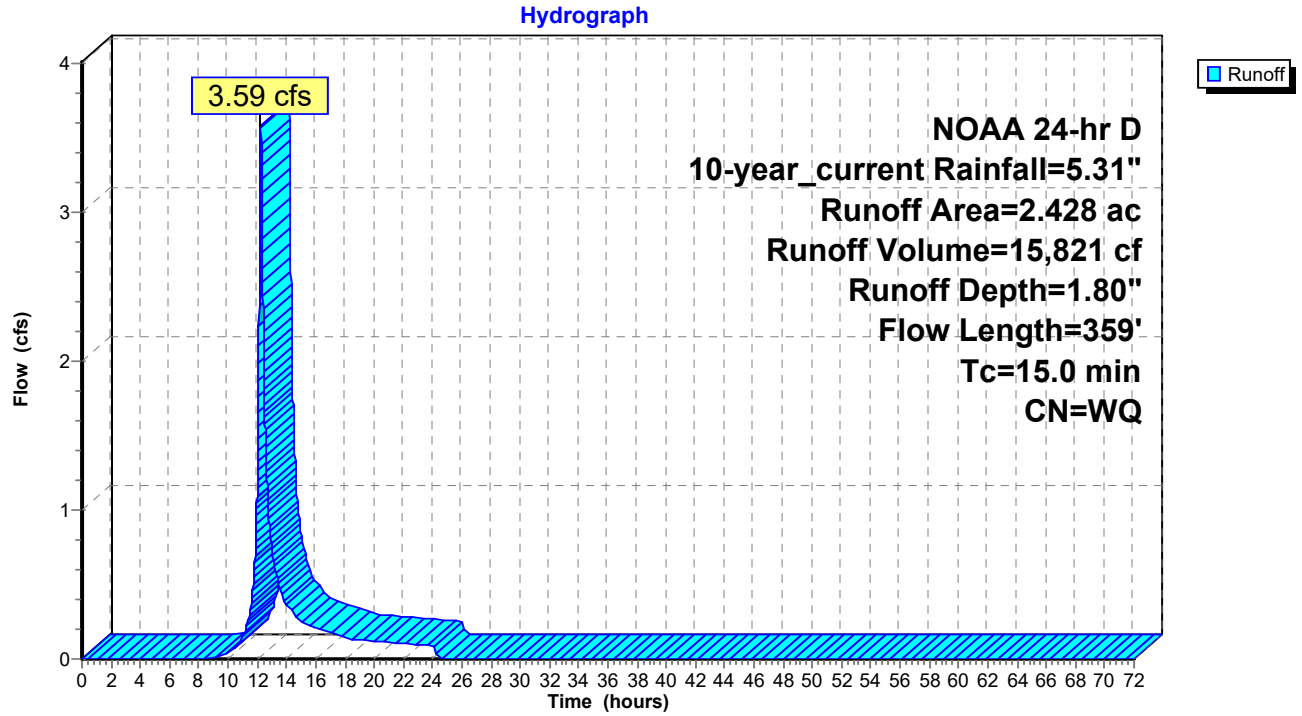
Runoff = 3.59 cfs @ 12.23 hrs, Volume= 15,821 cf, Depth= 1.80"
Routed to Reach 38R : DA3 Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.720	39	grass
*	1.708	72	sand
	2.428		Weighted Average
	2.428	62	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	35	0.5455	0.37		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
8.1	65	0.0321	0.13		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
3.4	107	0.0055	0.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	152	0.0066	1.31		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
15.0	359	Total			

Subcatchment 37S: Basin 3



Summary for Subcatchment 39S: Basin 1A East

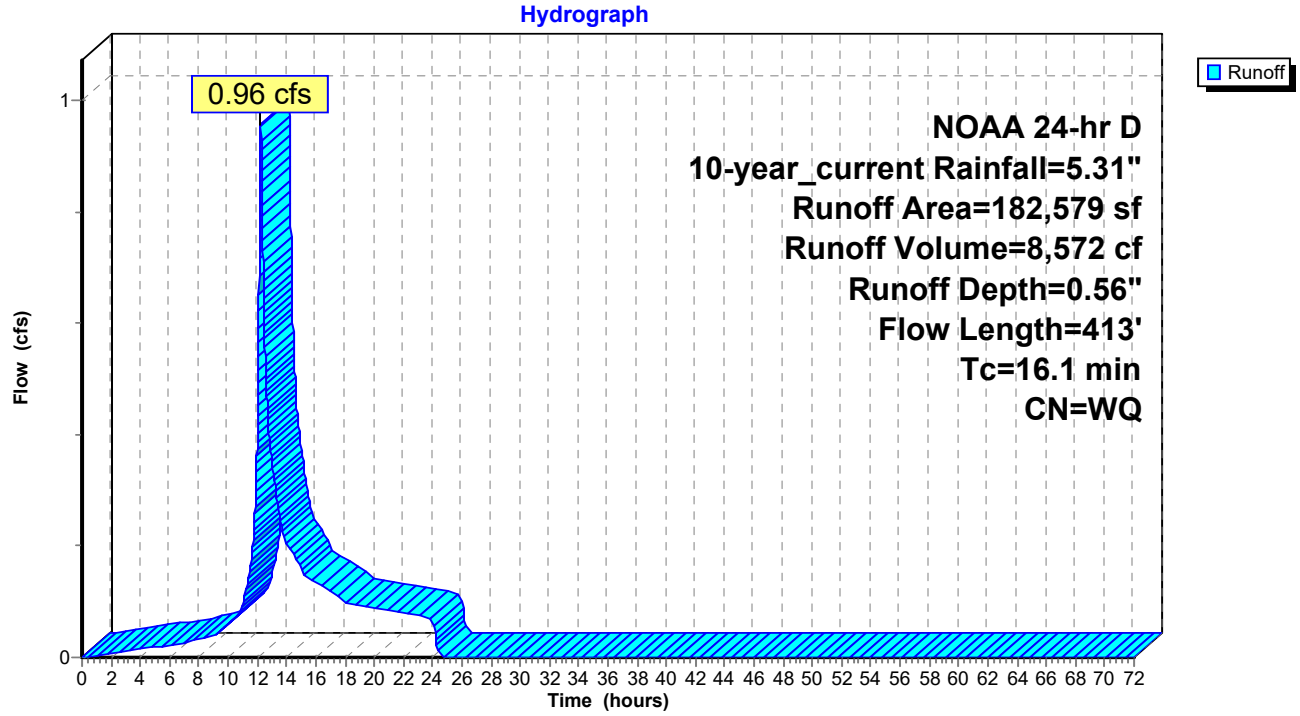
Runoff = 0.96 cfs @ 12.24 hrs, Volume= 8,572 cf, Depth= 0.56"
Routed to Reach 29R : DA1A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (sf)	CN	Description
	171,321	39	>75% Grass cover, Good, HSG A
*	11,258	98	Solar
	182,579		Weighted Average
	171,321	39	93.83% Pervious Area
	11,258	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	100	0.0299	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
4.3	313	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.1	413	Total			

Subcatchment 39S: Basin 1A East



Summary for Subcatchment 40S: Basin 1A West

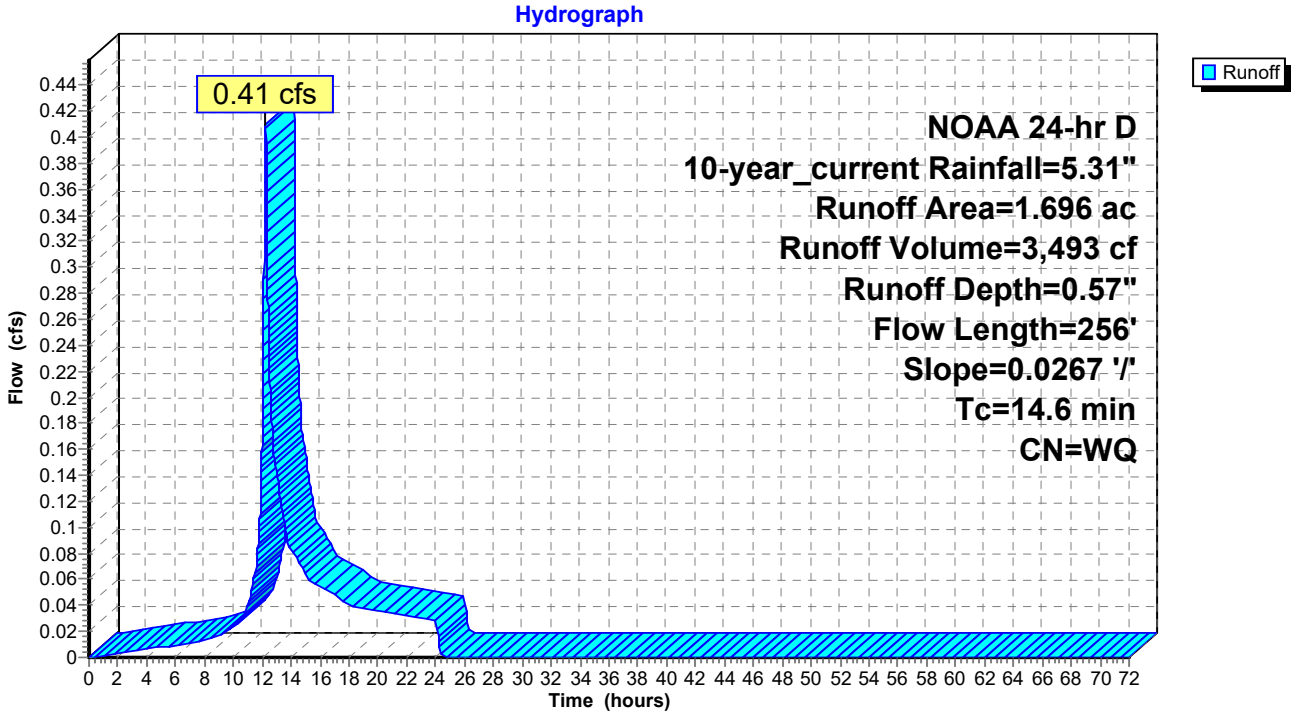
Runoff = 0.41 cfs @ 12.22 hrs, Volume= 3,493 cf, Depth= 0.57"
Routed to Reach 39R : DA 1A Central Swale A

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
	1.590	39	>75% Grass cover, Good, HSG A
*	0.106	98	Solar
	1.696		Weighted Average
	1.590	39	93.75% Pervious Area
	0.106	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.3	100	0.0267	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
2.3	156	0.0267	1.14		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	256	Total			

Subcatchment 40S: Basin 1A West



Summary for Subcatchment 41S: Basin 4 East

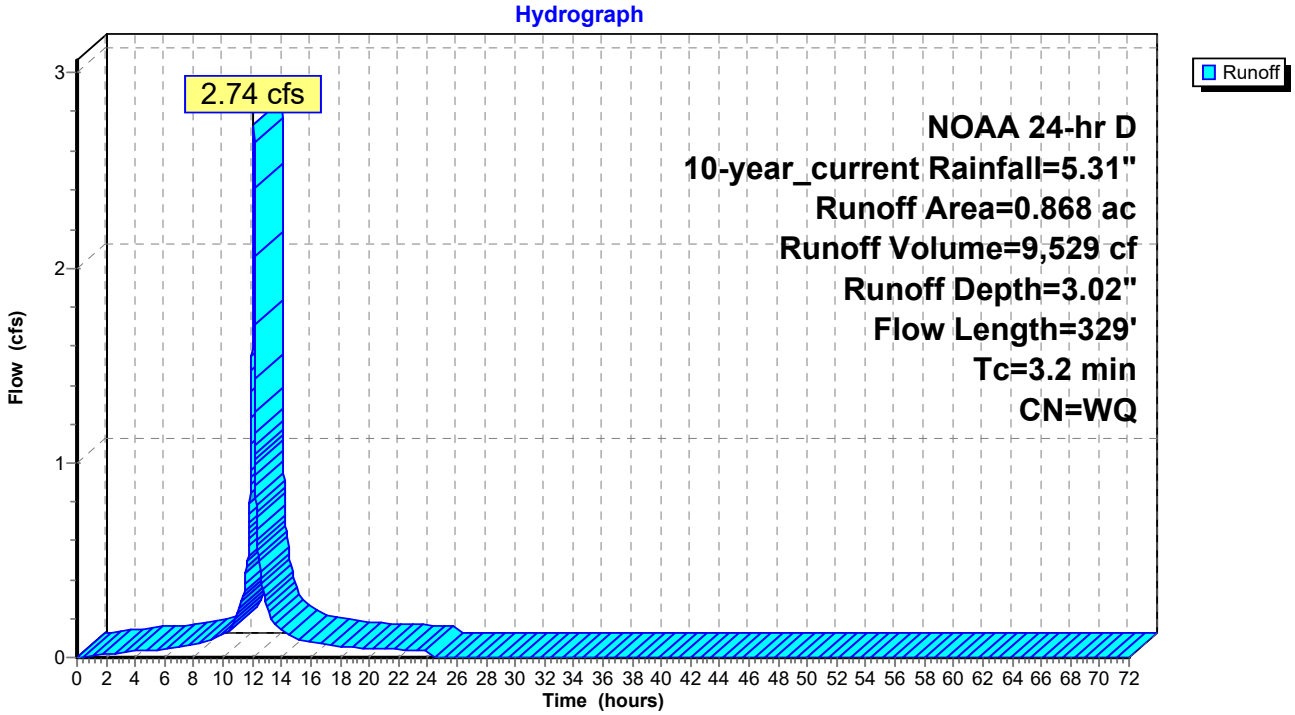
Runoff = 2.74 cfs @ 12.11 hrs, Volume= 9,529 cf, Depth= 3.02"
Routed to Reach 42R : DA4 East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.498	98	salt storage area
*	0.370	39	grass cover
	0.868		Weighted Average
	0.370	39	42.63% Pervious Area
	0.498	98	57.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0296	1.66		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.4	90	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	139	0.0325	1.26		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.2	329	Total			

Subcatchment 41S: Basin 4 East



Summary for Subcatchment 42S: Basin 4 West

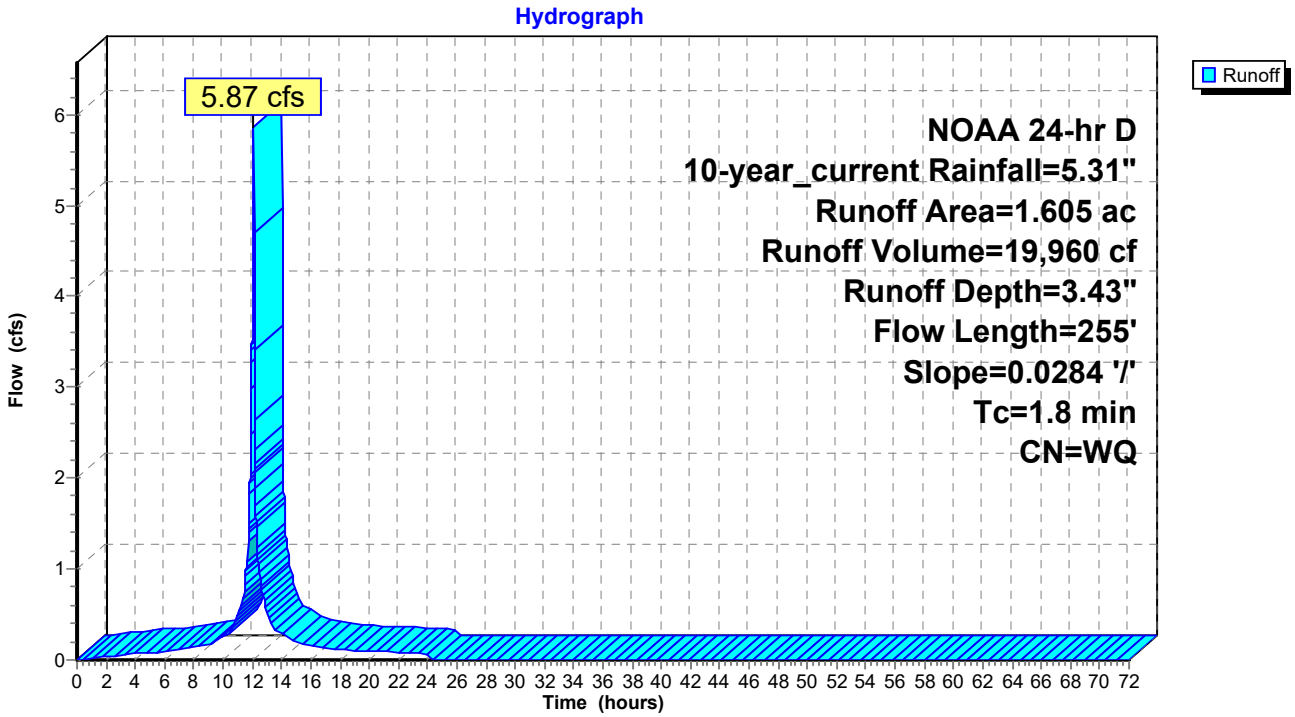
Runoff = 5.87 cfs @ 12.10 hrs, Volume= 19,960 cf, Depth= 3.43"
Routed to Reach 34R : DA4 West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.237	98	gravel road
*	0.818	98	compost/recycling area
*	0.550	39	grass cover
	1.605		Weighted Average
	0.550	39	34.27% Pervious Area
	1.055	98	65.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0284	1.63		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.8	155	0.0284	3.42		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	255	Total			

Subcatchment 42S: Basin 4 West



Summary for Subcatchment 46S: Direct Rainfall Basin 2A Bioretention

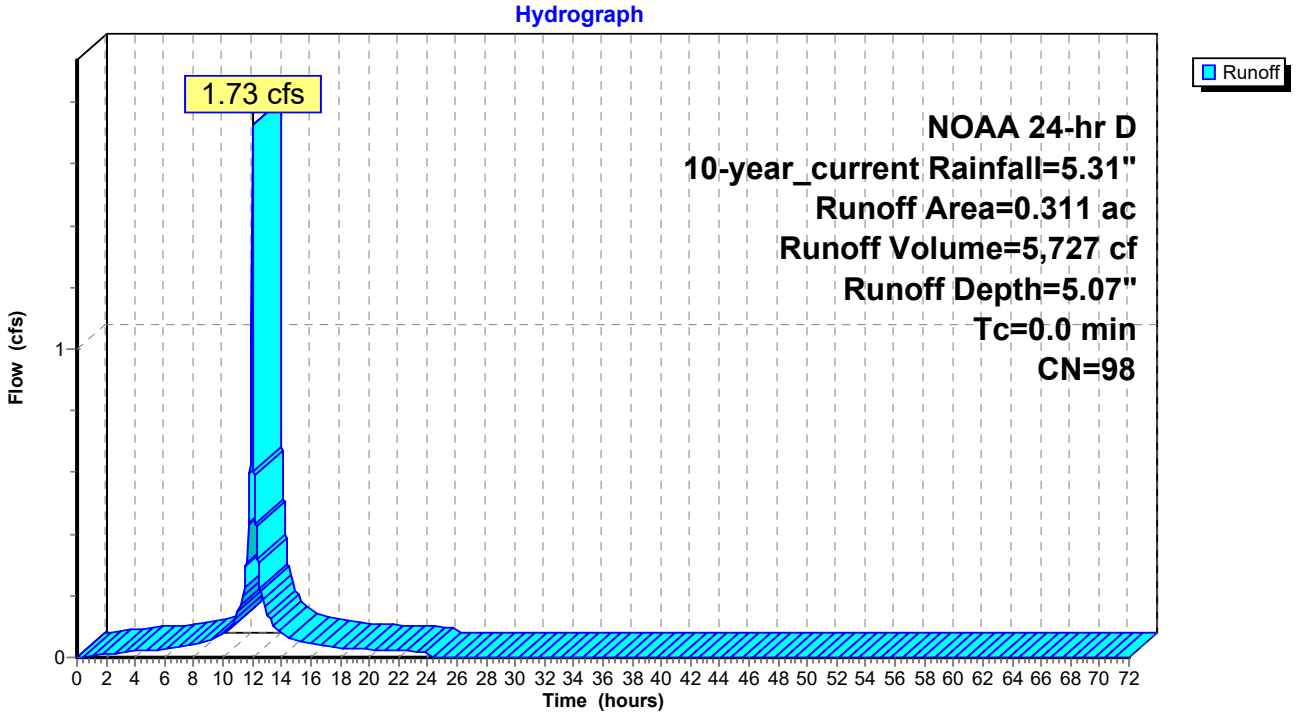
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.73 cfs @ 12.09 hrs, Volume= 5,727 cf, Depth= 5.07"
Routed to Pond 44P : Basin 2A Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.311	98	Direct Rainfall
	0.311	98	100.00% Impervious Area

Subcatchment 46S: Direct Rainfall Basin 2A Bioretention



Summary for Subcatchment 47S: Direct Rainfall Basin 2A Infiltration

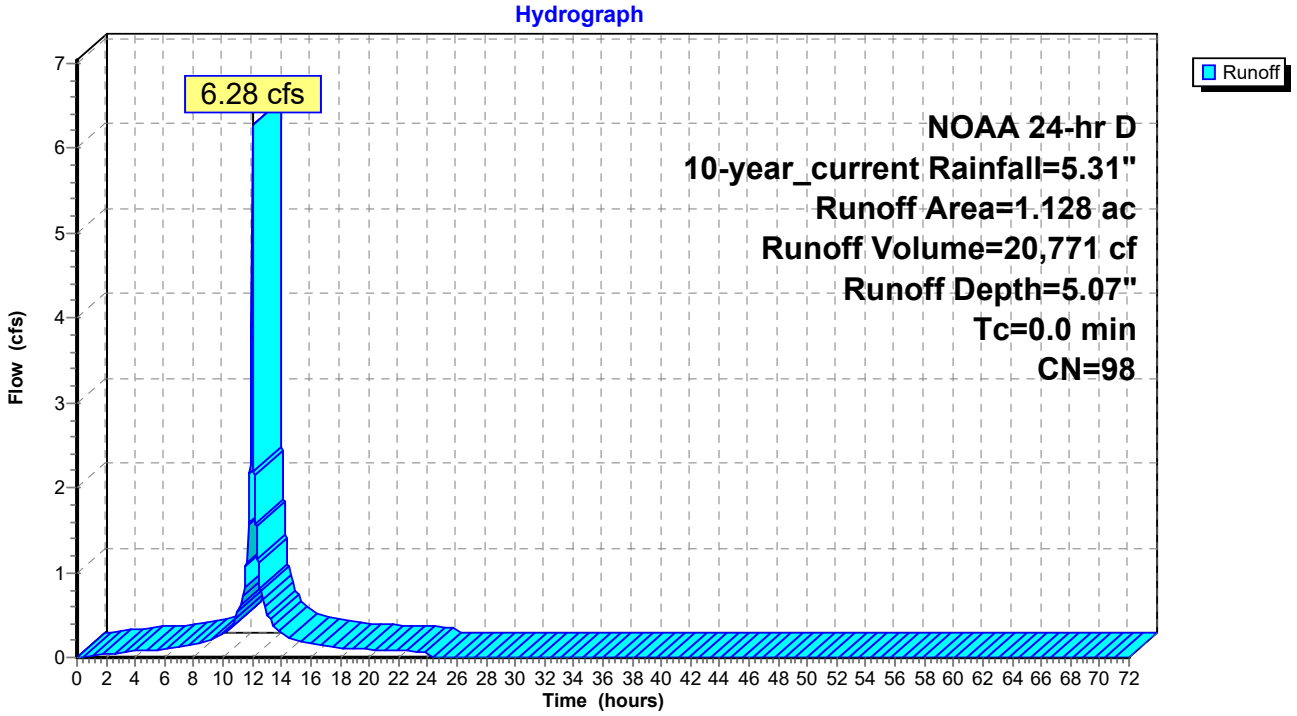
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 6.28 cfs @ 12.09 hrs, Volume= 20,771 cf, Depth= 5.07"
Routed to Pond 45P : Basin 2A Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	1.128	98	Direct Rainfall
	1.128	98	100.00% Impervious Area

Subcatchment 47S: Direct Rainfall Basin 2A Infiltration



Summary for Subcatchment 48S: Direct Rainfall Basin 1B Bioretention

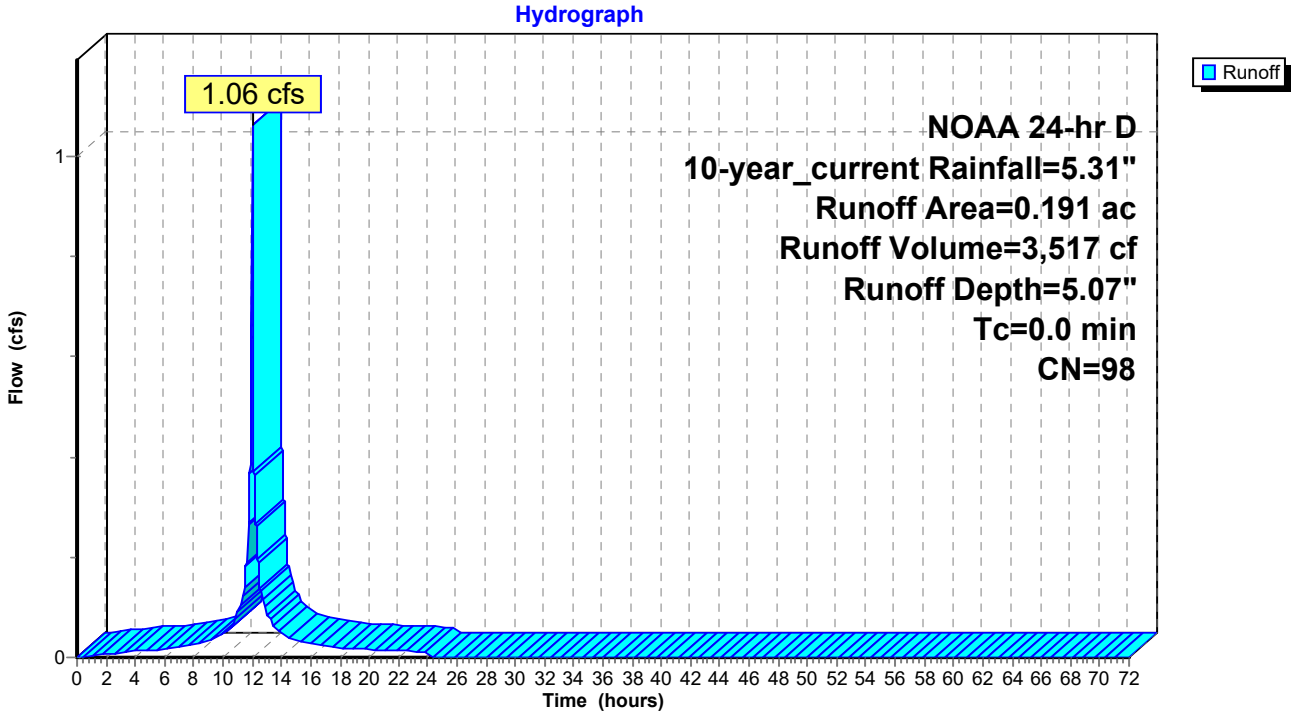
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.06 cfs @ 12.09 hrs, Volume= 3,517 cf, Depth= 5.07"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.191	98	direct rainfall onto bioretention
	0.191	98	100.00% Impervious Area

Subcatchment 48S: Direct Rainfall Basin 1B Bioretention



Summary for Subcatchment 49S: Direct Rainfall Basin 1A Infiltration

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

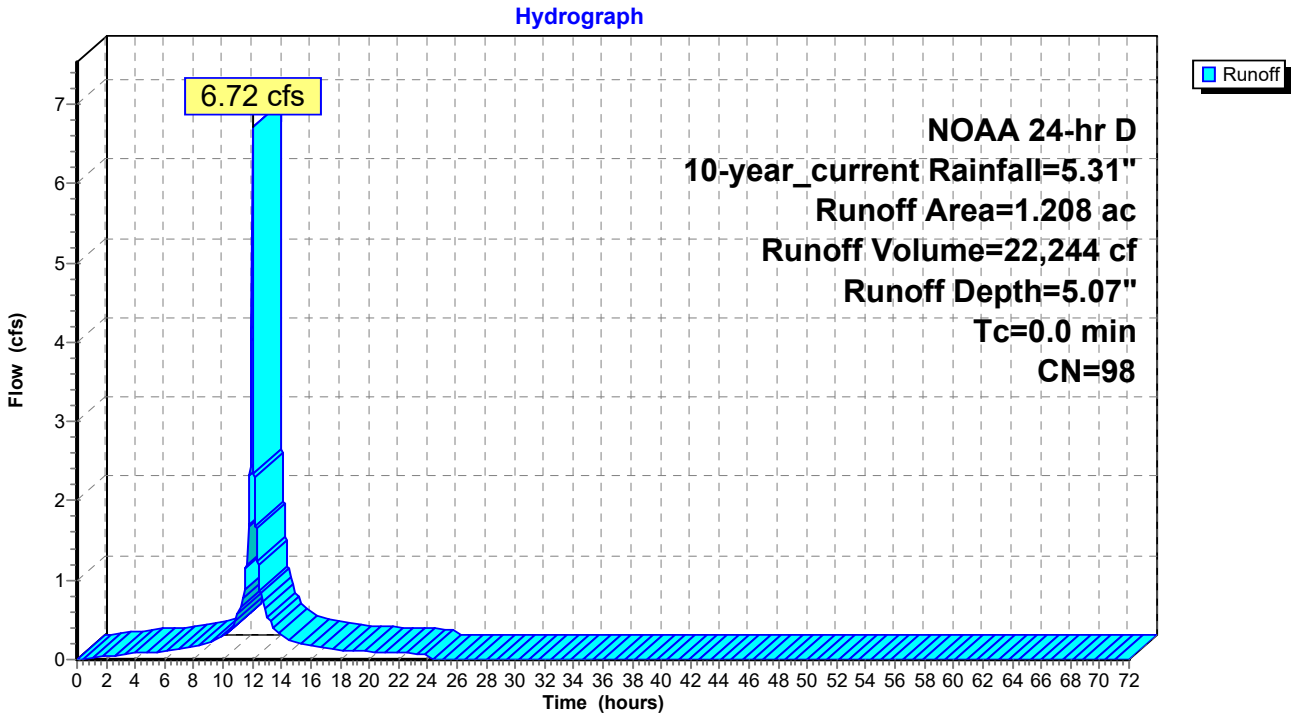
Runoff = 6.72 cfs @ 12.09 hrs, Volume= 22,244 cf, Depth= 5.07"
Routed to Pond 48P : Basin 1A Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	1.208	98	
	1.208	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					**Direct Entry,**

Subcatchment 49S: Direct Rainfall Basin 1A Infiltration



Summary for Subcatchment 50S: Direct Rainfall Basin 1B Infiltration

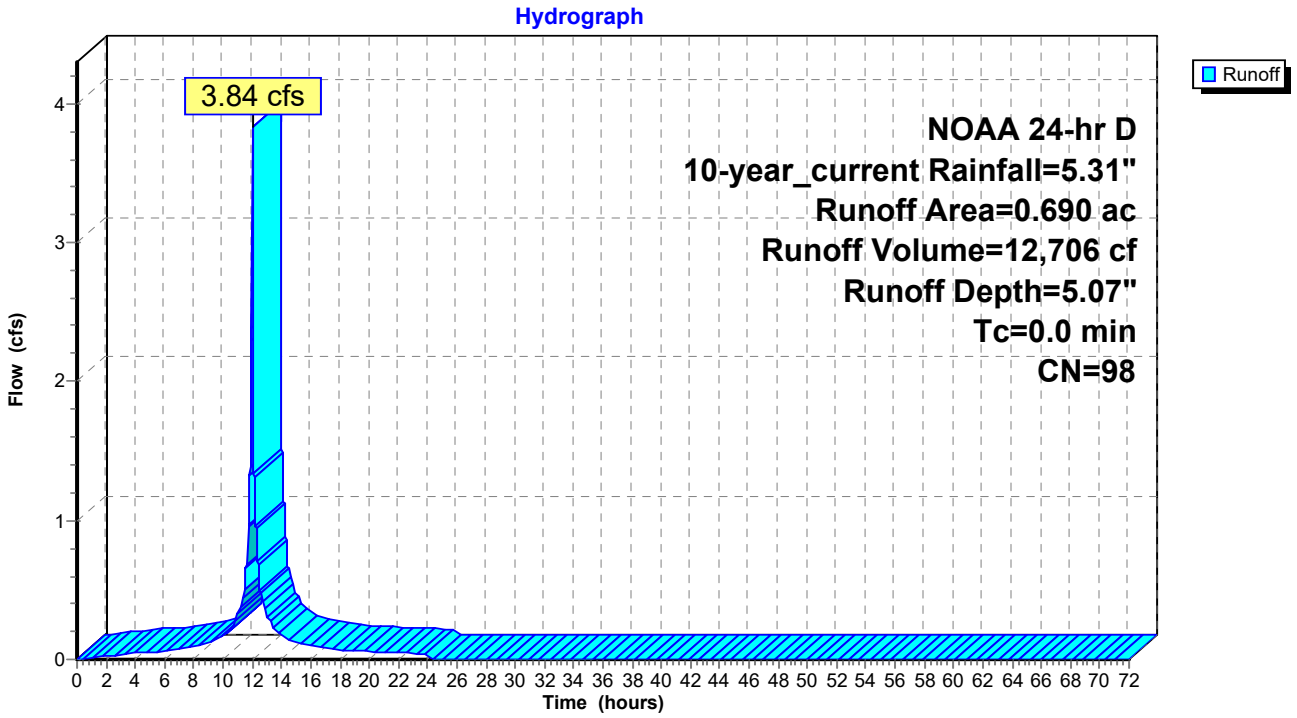
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.84 cfs @ 12.09 hrs, Volume= 12,706 cf, Depth= 5.07"
Routed to Pond 46P : Basin 1B Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.690	98	direct rainfall
	0.690	98	100.00% Impervious Area

Subcatchment 50S: Direct Rainfall Basin 1B Infiltration



Summary for Subcatchment 52S: Direct Rainfall Basin 1A Forebay

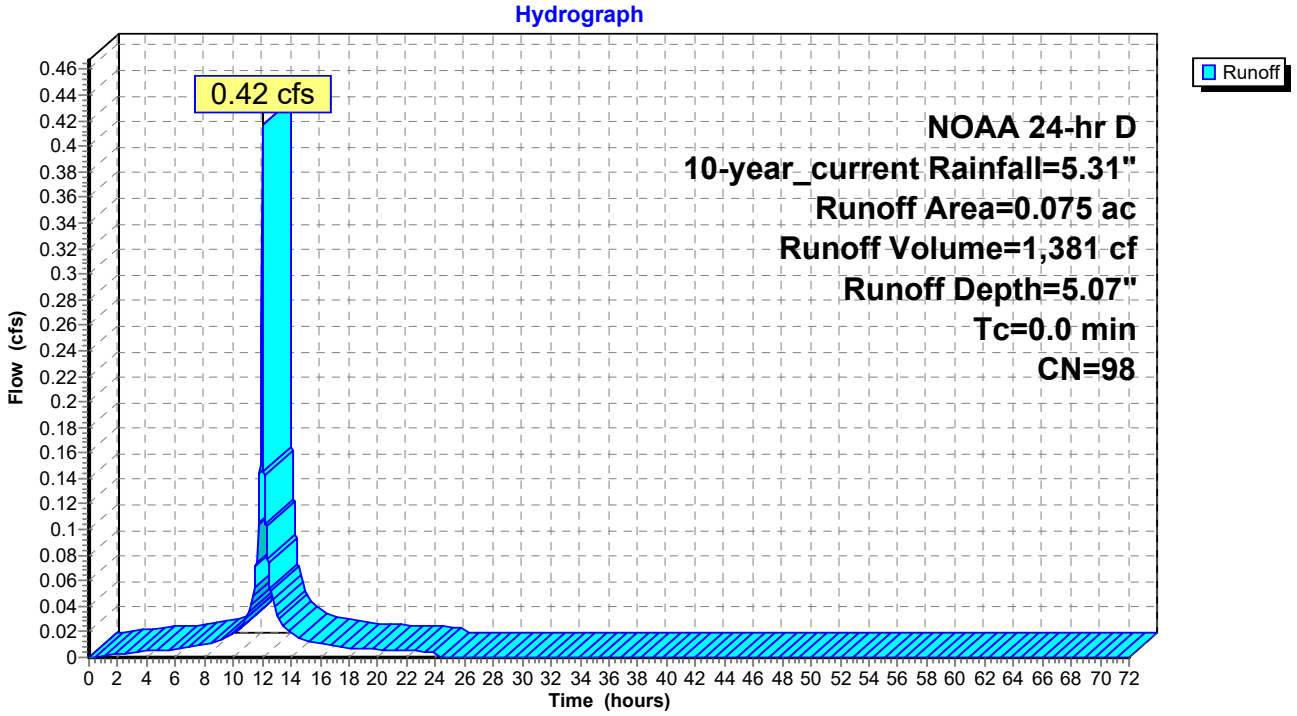
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,381 cf, Depth= 5.07"
Routed to Pond 15P : Basin 1A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.075	98	direct rainfall
	0.075	98	100.00% Impervious Area

Subcatchment 52S: Direct Rainfall Basin 1A Forebay



Summary for Subcatchment 54S: Direct Rainfall Basin 2A forebay

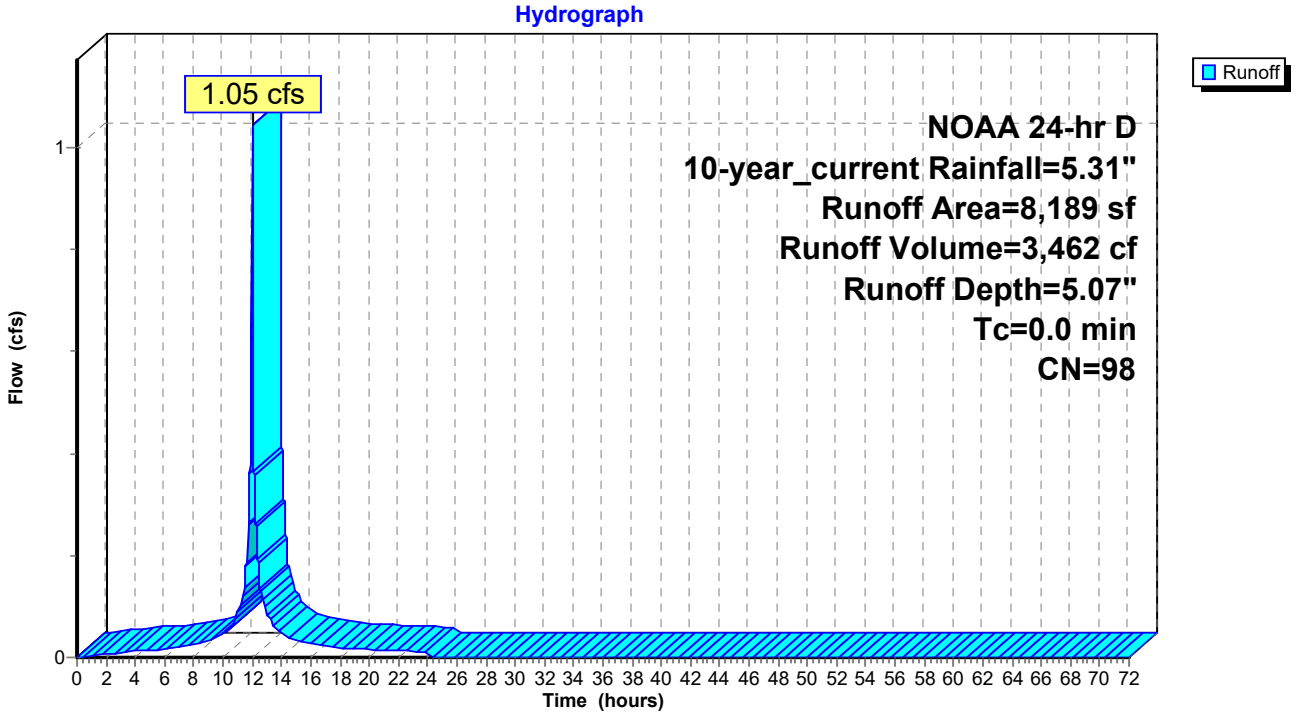
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.05 cfs @ 12.09 hrs, Volume= 3,462 cf, Depth= 5.07"
Routed to Pond 26P : Basin 2A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (sf)	CN	Description
*	8,189	98	direct rainfall to forebay
	8,189	98	100.00% Impervious Area

Subcatchment 54S: Direct Rainfall Basin 2A forebay



Summary for Subcatchment 55S: Direct Rainfall Basin 3 Forebay

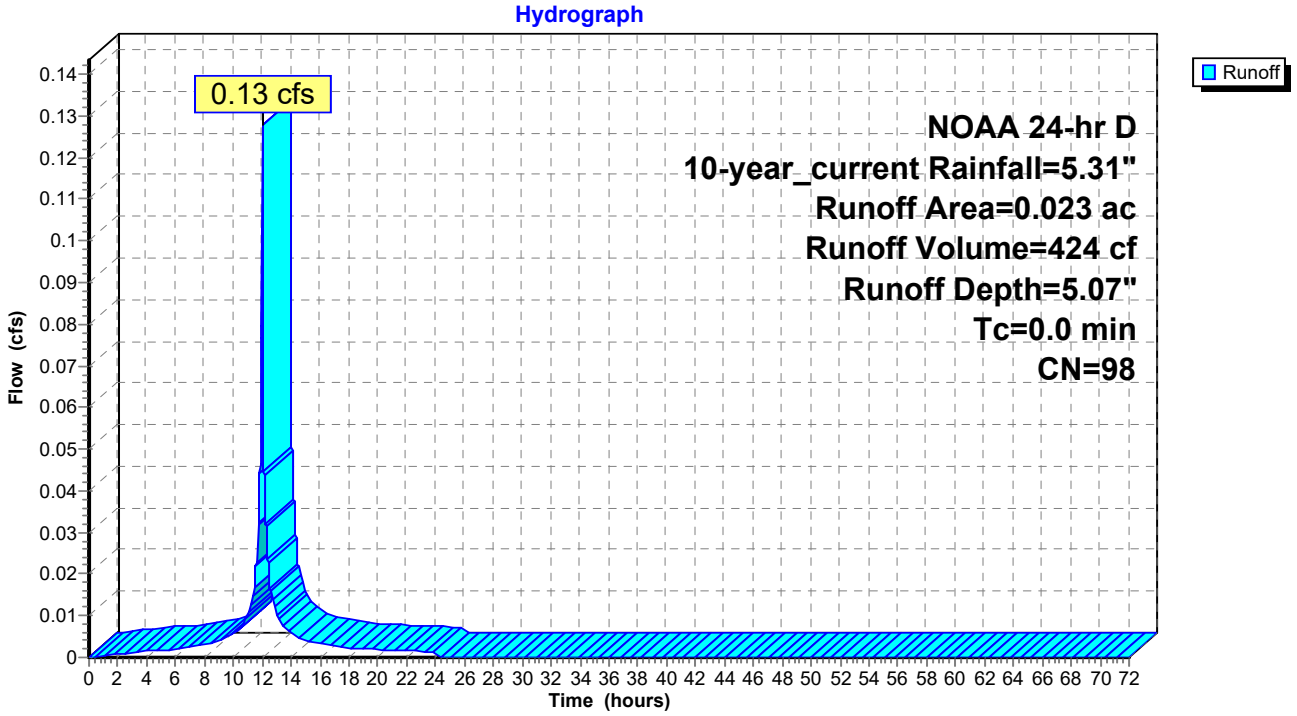
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.13 cfs @ 12.09 hrs, Volume= 424 cf, Depth= 5.07"
Routed to Pond 38P : Basin 3 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.023	98	direct rainfall
	0.023	98	100.00% Impervious Area

Subcatchment 55S: Direct Rainfall Basin 3 Forebay



Summary for Subcatchment 56S: Direct Rainfall Basin 1B Forebay

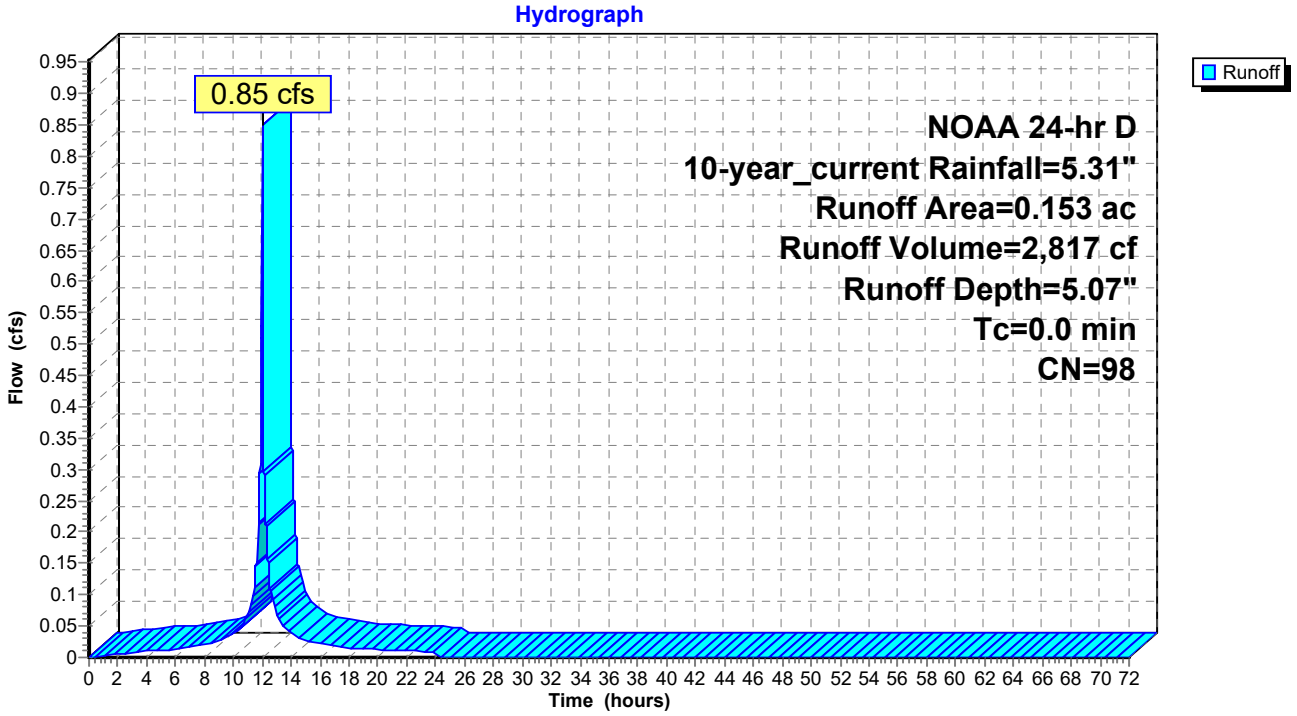
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.85 cfs @ 12.09 hrs, Volume= 2,817 cf, Depth= 5.07"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.153	98	direct rainfall
	0.153	98	100.00% Impervious Area

Subcatchment 56S: Direct Rainfall Basin 1B Forebay



Summary for Subcatchment 57S: Direct Rainfall Basin 4 Forebay

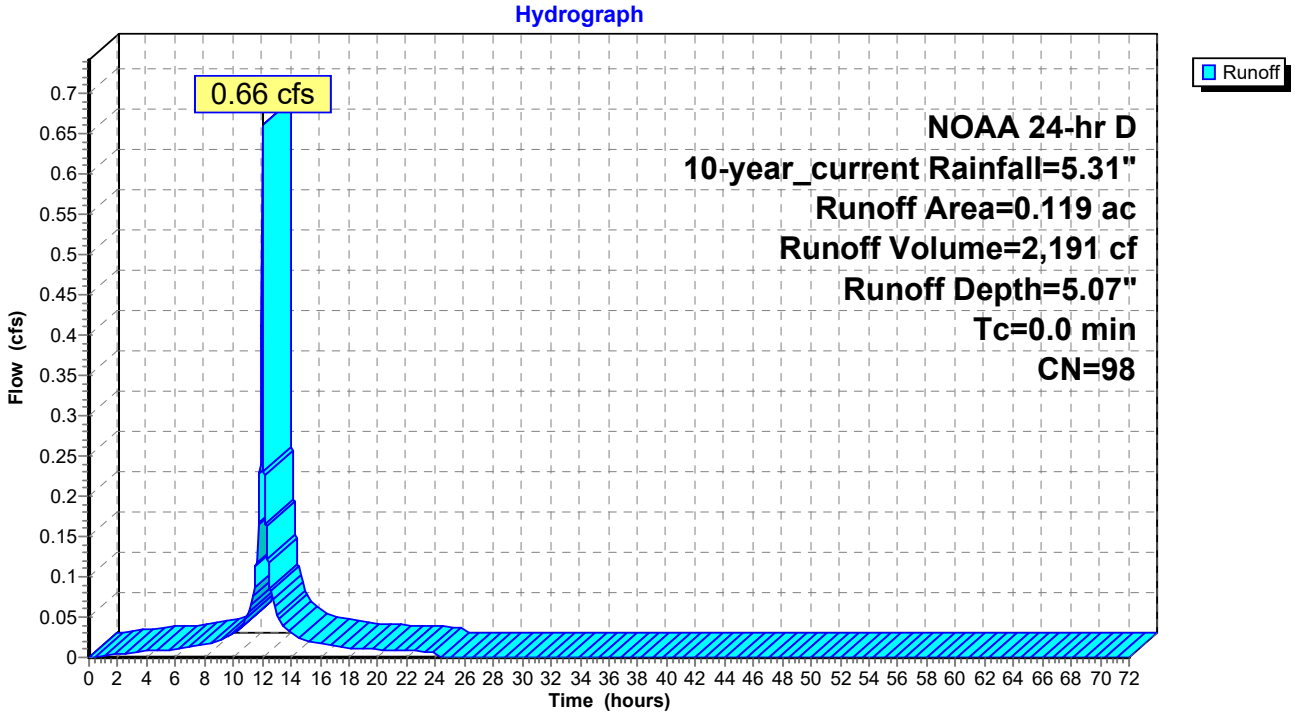
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.66 cfs @ 12.09 hrs, Volume= 2,191 cf, Depth= 5.07"
Routed to Pond 39P : Basin 4 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.119	98	direct rainfall
	0.119	98	100.00% Impervious Area

Subcatchment 57S: Direct Rainfall Basin 4 Forebay



Summary for Subcatchment 58S: Direct forest undeveloped runoff to basin

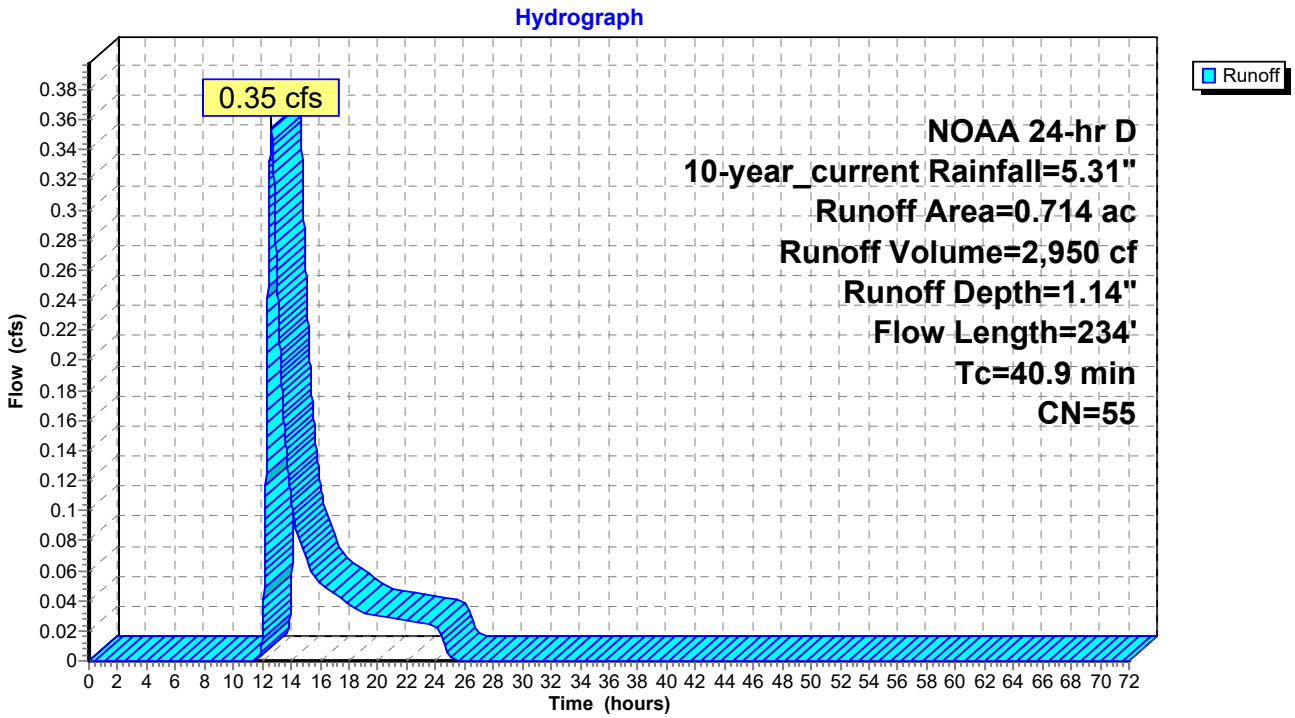
Runoff = 0.35 cfs @ 12.64 hrs, Volume= 2,950 cf, Depth= 1.14"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

Area (ac)	CN	Description
0.714	55	Woods, Good, HSG B
0.714	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	100	0.0200	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.40"
4.6	134	0.0370	0.48		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
40.9	234	Total			

Subcatchment 58S: Direct forest undeveloped runoff to basin



Summary for Subcatchment 59S: Direct Rainfall Basin 4 Infiltration

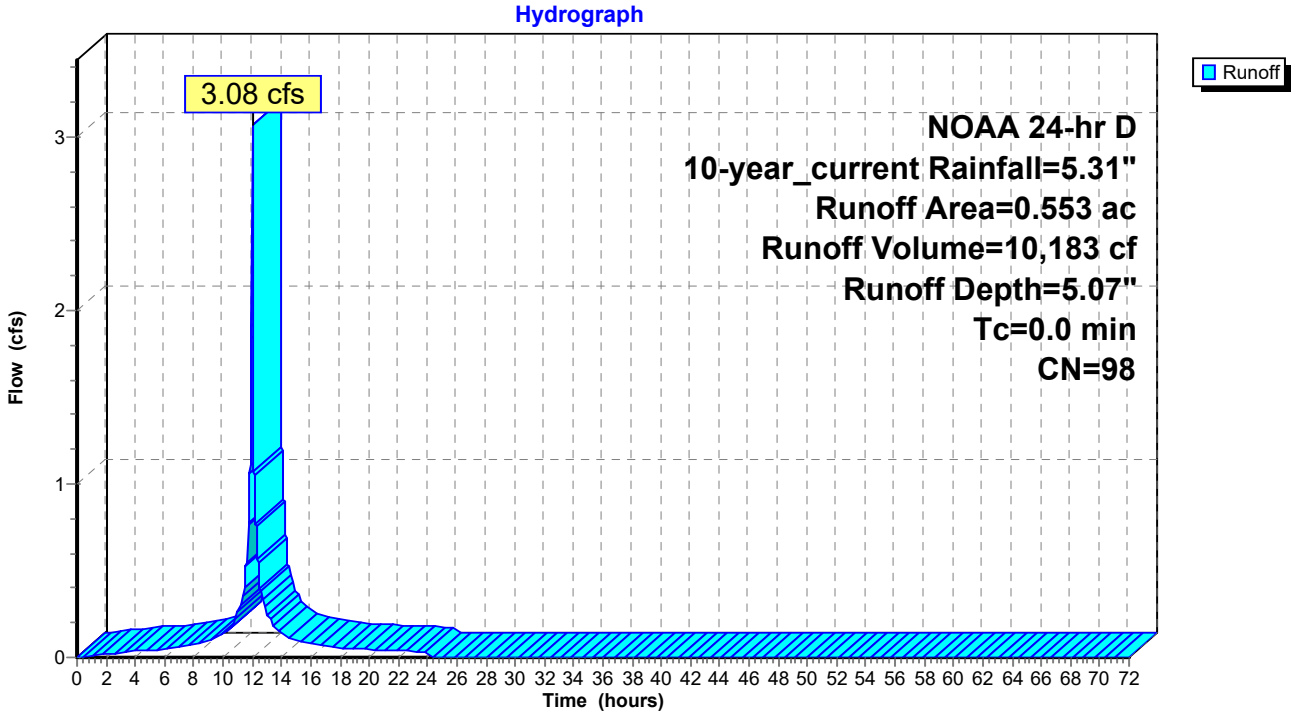
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.08 cfs @ 12.09 hrs, Volume= 10,183 cf, Depth= 5.07"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.553	98	direct rainfall
	0.553	98	100.00% Impervious Area

Subcatchment 59S: Direct Rainfall Basin 4 Infiltration



Summary for Subcatchment 62S: Direct Rainfall Basin 3 Infiltration

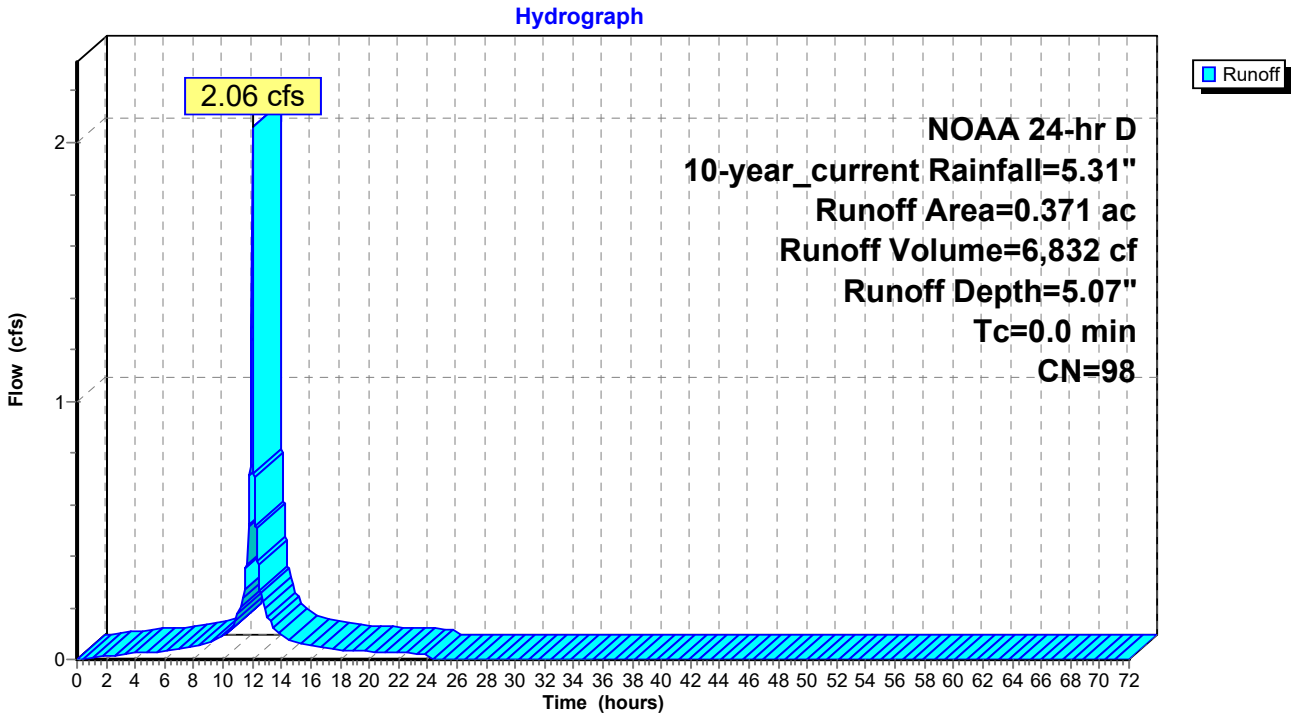
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.06 cfs @ 12.09 hrs, Volume= 6,832 cf, Depth= 5.07"
Routed to Pond 61P : Basin 3 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.371	98	
	0.371	98	100.00% Impervious Area

Subcatchment 62S: Direct Rainfall Basin 3 Infiltration



Summary for Subcatchment 65S: Direct Rainfall Basin 3 Bioretention

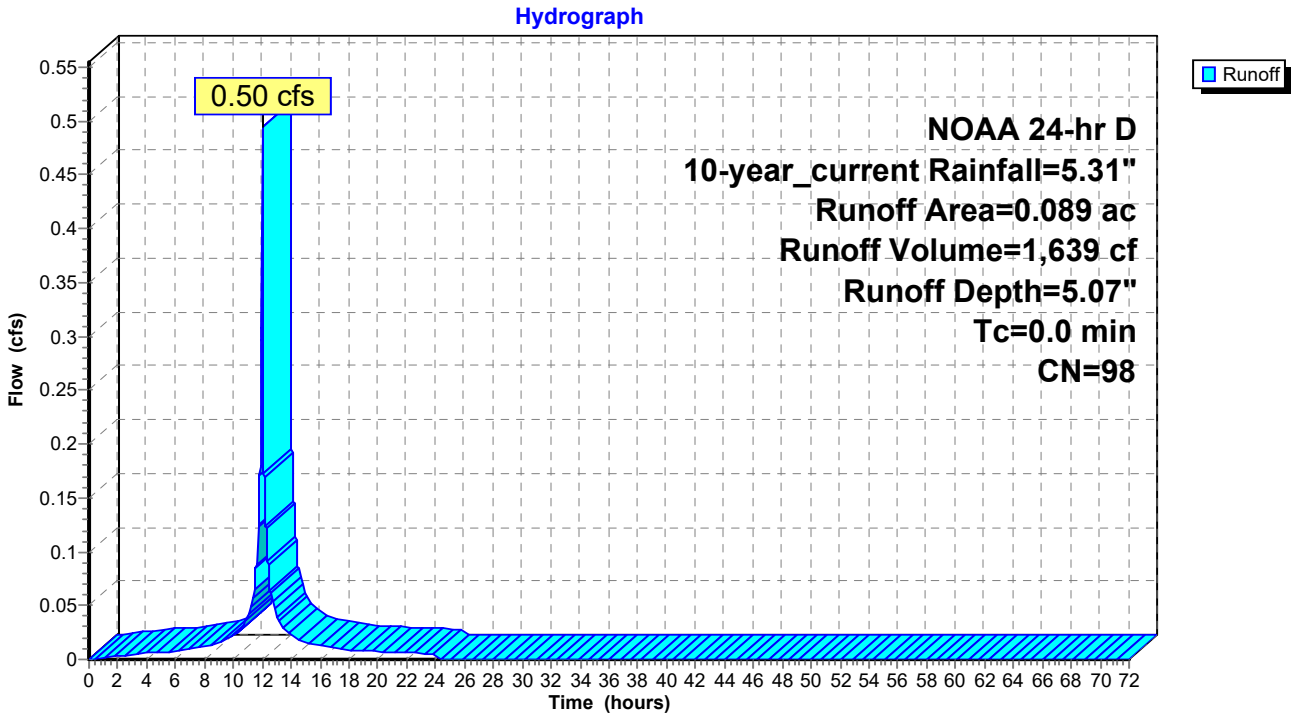
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 1,639 cf, Depth= 5.07"
Routed to Pond 60P : Basin 3 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.089	98	
	0.089	98	100.00% Impervious Area

Subcatchment 65S: Direct Rainfall Basin 3 Bioretention



Summary for Subcatchment 69S: Direct Rainfall Basin 2B Forebay

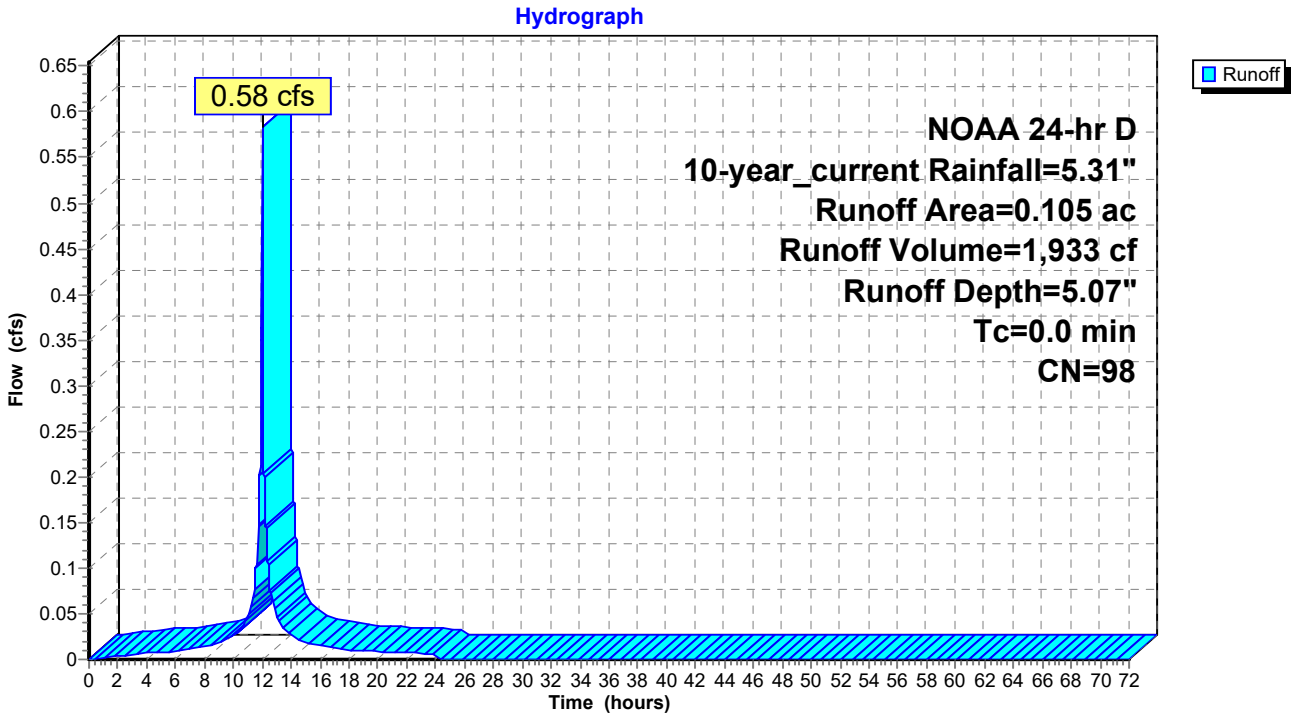
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 1,933 cf, Depth= 5.07"
Routed to Pond 65P : Basin 2B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.105	98	direct rainfall
	0.105	98	100.00% Impervious Area

Subcatchment 69S: Direct Rainfall Basin 2B Forebay



Summary for Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin

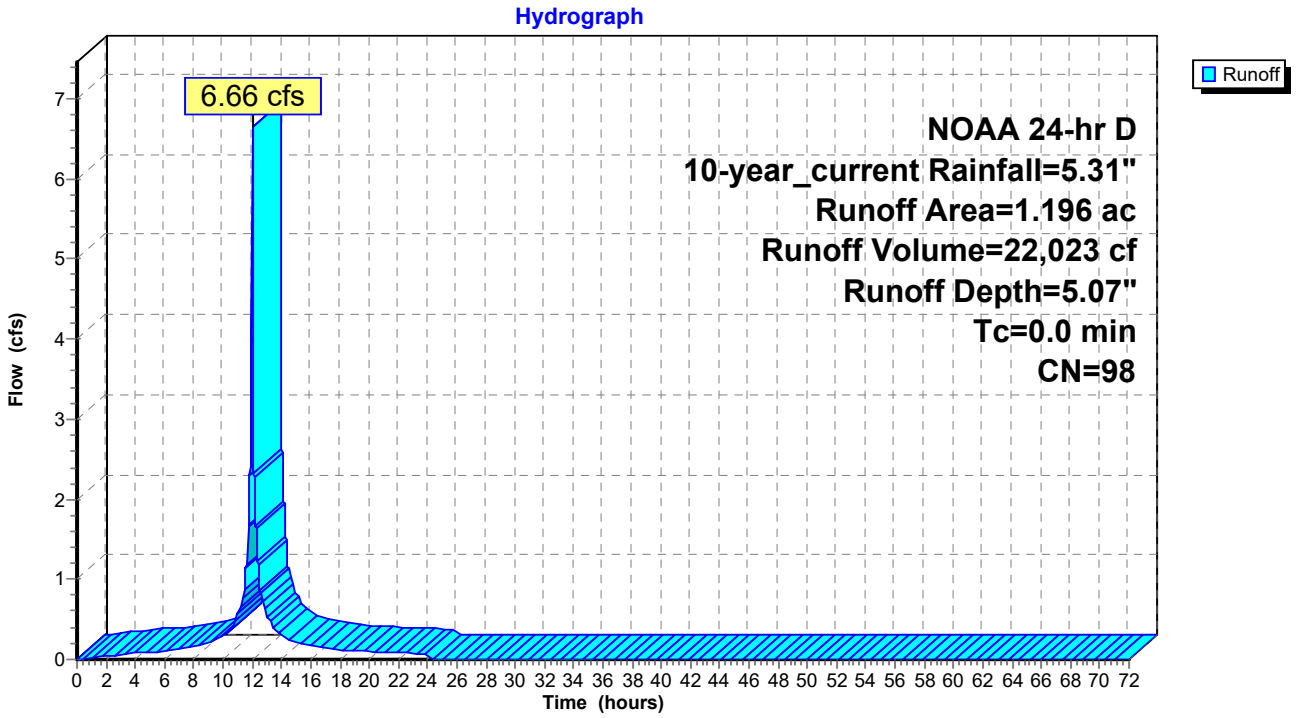
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 6.66 cfs @ 12.09 hrs, Volume= 22,023 cf, Depth= 5.07"
Routed to Pond 66P : Basin 2B Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	1.196	98	direct rainfall
	1.196	98	100.00% Impervious Area

Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin



Summary for Subcatchment 71S: Direct Rainfall to Bioretention

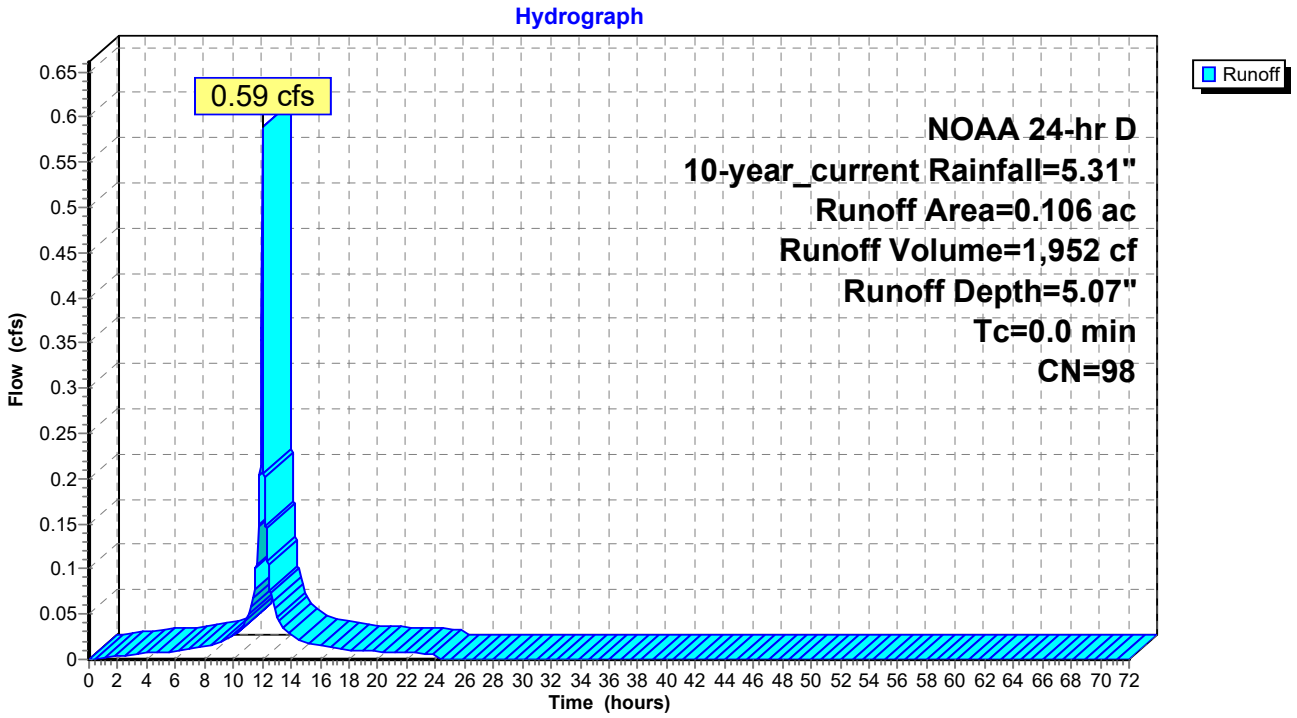
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.59 cfs @ 12.09 hrs, Volume= 1,952 cf, Depth= 5.07"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.106	98	direct rainfall to bioretention
	0.106	98	100.00% Impervious Area

Subcatchment 71S: Direct Rainfall to Bioretention



Summary for Subcatchment 74S: Direct forest runoff to infiltration basin

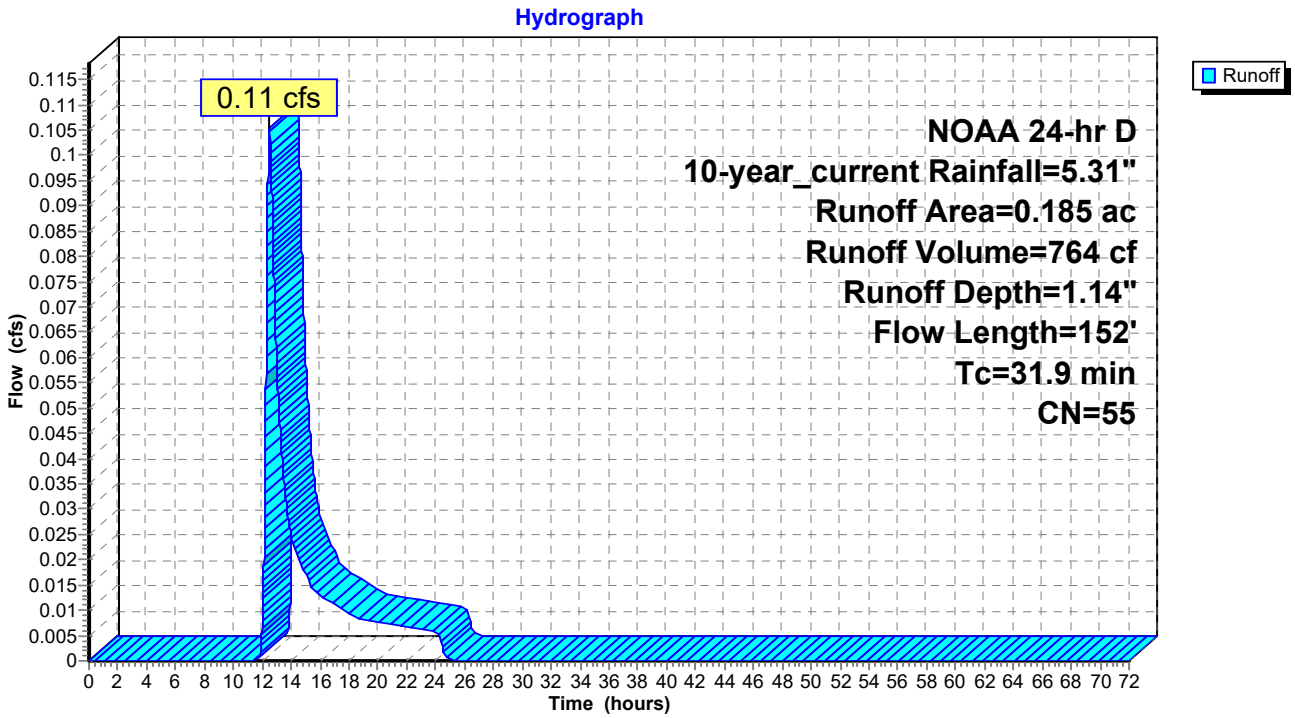
Runoff = 0.11 cfs @ 12.51 hrs, Volume= 764 cf, Depth= 1.14"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

Area (ac)	CN	Description
0.185	55	Woods, Good, HSG B
0.185	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.8	100	0.0300	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.40"
1.1	52	0.1000	0.79		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
31.9	152	Total			

Subcatchment 74S: Direct forest runoff to infiltration basin



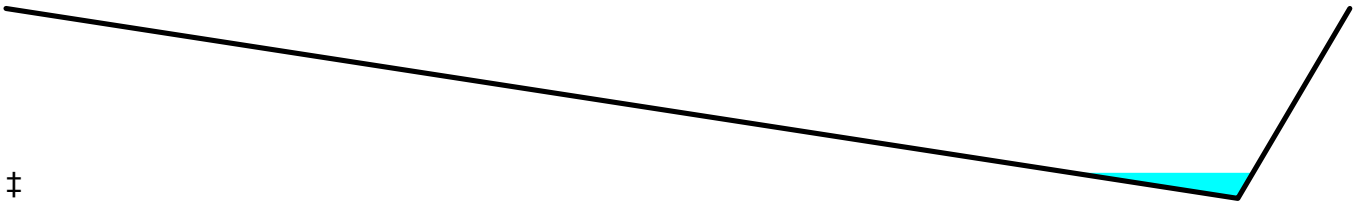
Summary for Reach 29R: DA1A East Swale

Inflow Area = 182,579 sf, 6.17% Impervious, Inflow Depth = 0.56" for 10-year_current event
Inflow = 0.96 cfs @ 12.24 hrs, Volume= 8,572 cf
Outflow = 0.55 cfs @ 13.07 hrs, Volume= 8,572 cf, Atten= 43%, Lag= 49.8 min
Routed to Pond 15P : Basin 1A Forebay

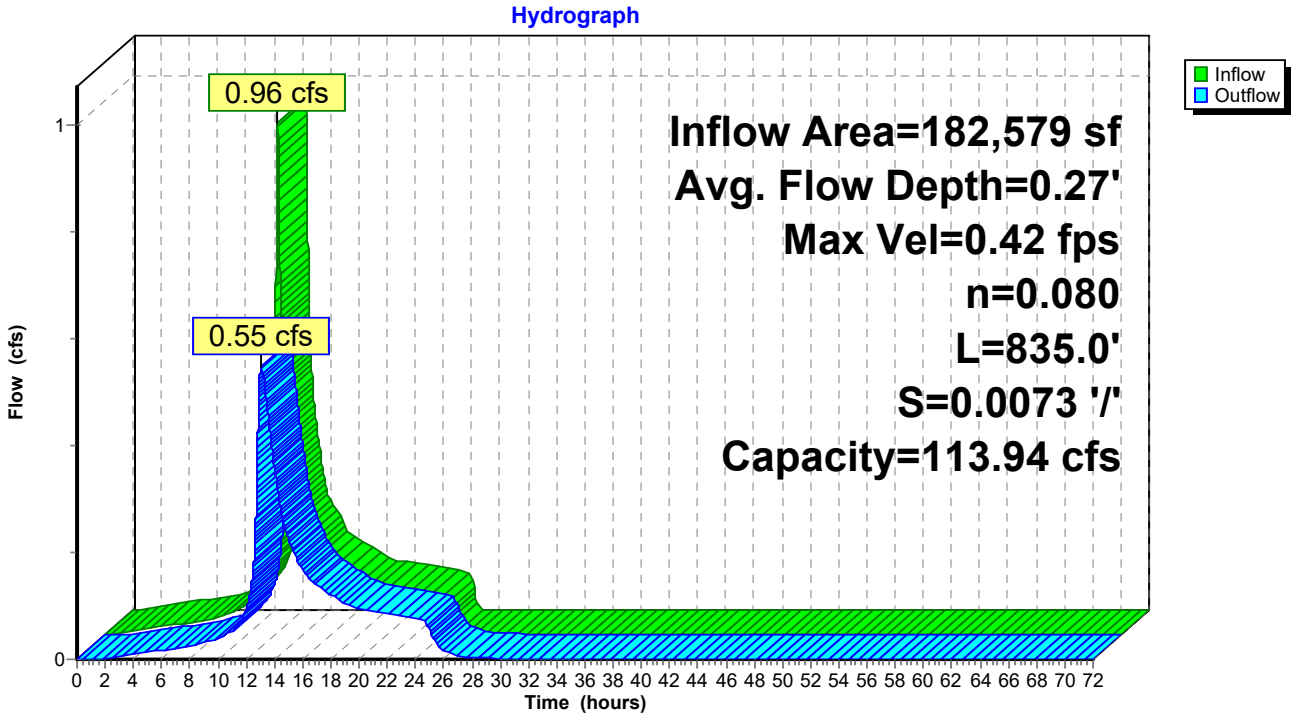
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.42 fps, Min. Travel Time= 33.3 min
Avg. Velocity = 0.17 fps, Avg. Travel Time= 80.3 min

Peak Storage= 1,099 cf @ 12.52 hrs
Average Depth at Peak Storage= 0.27' , Surface Width= 9.73'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 113.94 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 835.0' Slope= 0.0073 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡



Summary for Reach 30R: DA1A West Swale

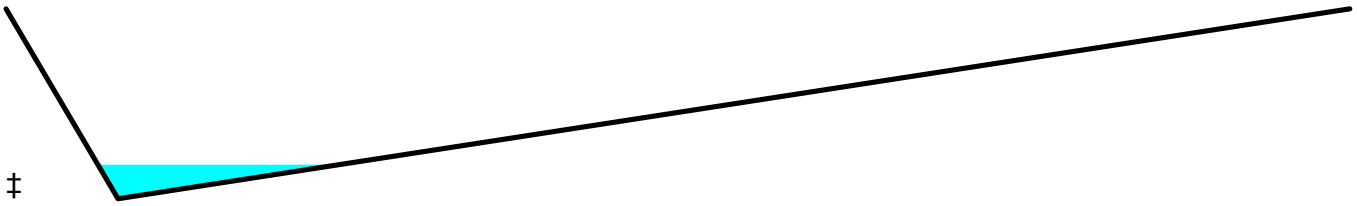
[62] Hint: Exceeded Reach 41R OUTLET depth by 0.17' @ 12.41 hrs

Inflow Area = 324,304 sf, 6.25% Impervious, Inflow Depth = 0.57" for 10-year_current event
Inflow = 1.34 cfs @ 12.26 hrs, Volume= 15,330 cf
Outflow = 0.84 cfs @ 13.04 hrs, Volume= 15,330 cf, Atten= 37%, Lag= 46.8 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.36 fps, Min. Travel Time= 29.7 min
Avg. Velocity = 0.14 fps, Avg. Travel Time= 75.2 min

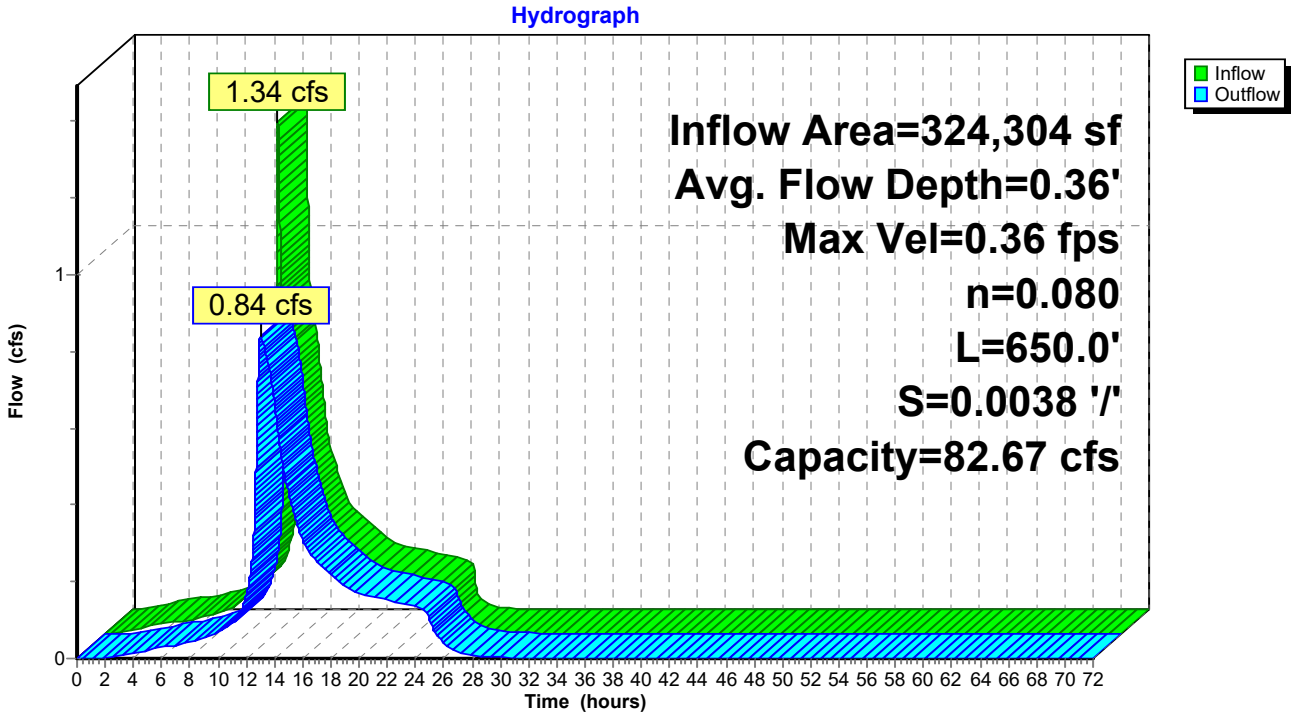
Peak Storage= 1,502 cf @ 12.54 hrs
Average Depth at Peak Storage= 0.36' , Surface Width= 12.90'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 82.67 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 650.0' Slope= 0.0038 '/'
Inlet Invert= 162.50', Outlet Invert= 160.00'



‡

Reach 30R: DA1A West Swale



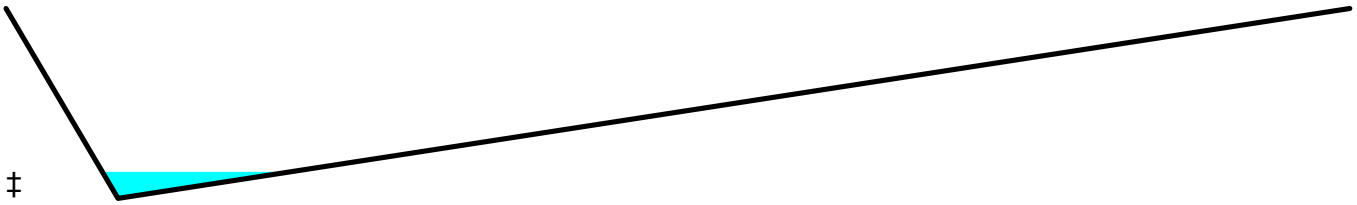
Summary for Reach 31R: DA2B East Swale

Inflow Area = 195,980 sf, 6.17% Impervious, Inflow Depth = 0.56" for 10-year_current event
Inflow = 1.00 cfs @ 12.25 hrs, Volume= 9,201 cf
Outflow = 0.63 cfs @ 12.94 hrs, Volume= 9,201 cf, Atten= 37%, Lag= 41.3 min
Routed to Pond 65P : Basin 2B Forebay

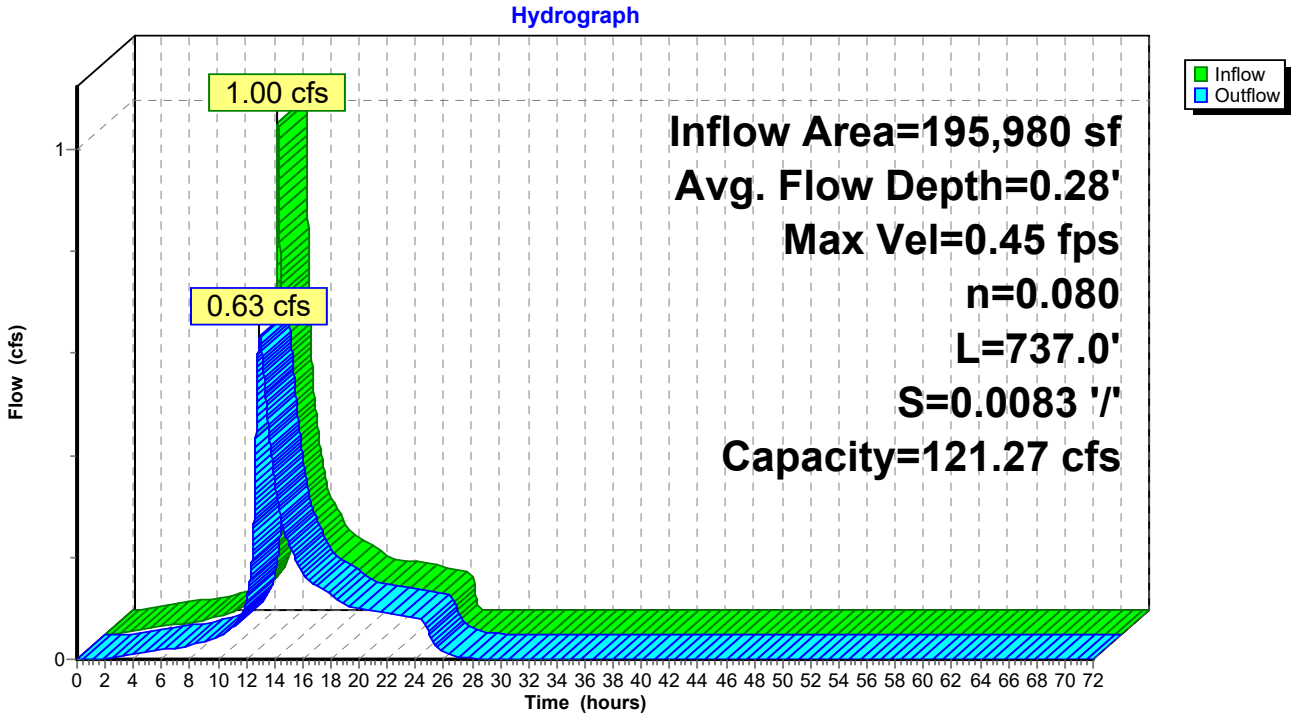
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.45 fps, Min. Travel Time= 27.1 min
Avg. Velocity = 0.19 fps, Avg. Travel Time= 63.8 min

Peak Storage= 1,032 cf @ 12.49 hrs
Average Depth at Peak Storage= 0.28' , Surface Width= 10.04'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 121.27 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 737.0' Slope= 0.0083 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



Reach 31R: DA2B East Swale



Summary for Reach 33R: DA2B West Swale

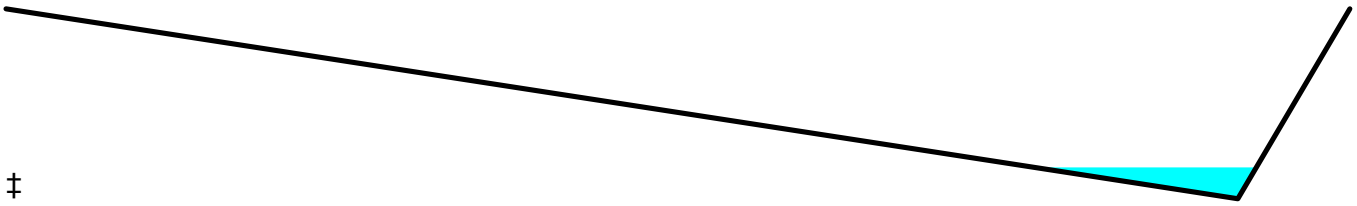
[61] Hint: Exceeded Reach 45R outlet invert by 0.33' @ 12.43 hrs

Inflow Area = 182,604 sf, 6.25% Impervious, Inflow Depth = 0.57" for 10-year_current event
Inflow = 0.94 cfs @ 12.26 hrs, Volume= 8,635 cf
Outflow = 0.68 cfs @ 12.74 hrs, Volume= 8,635 cf, Atten= 28%, Lag= 28.8 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.35 fps, Min. Travel Time= 18.4 min
Avg. Velocity = 0.15 fps, Avg. Travel Time= 42.8 min

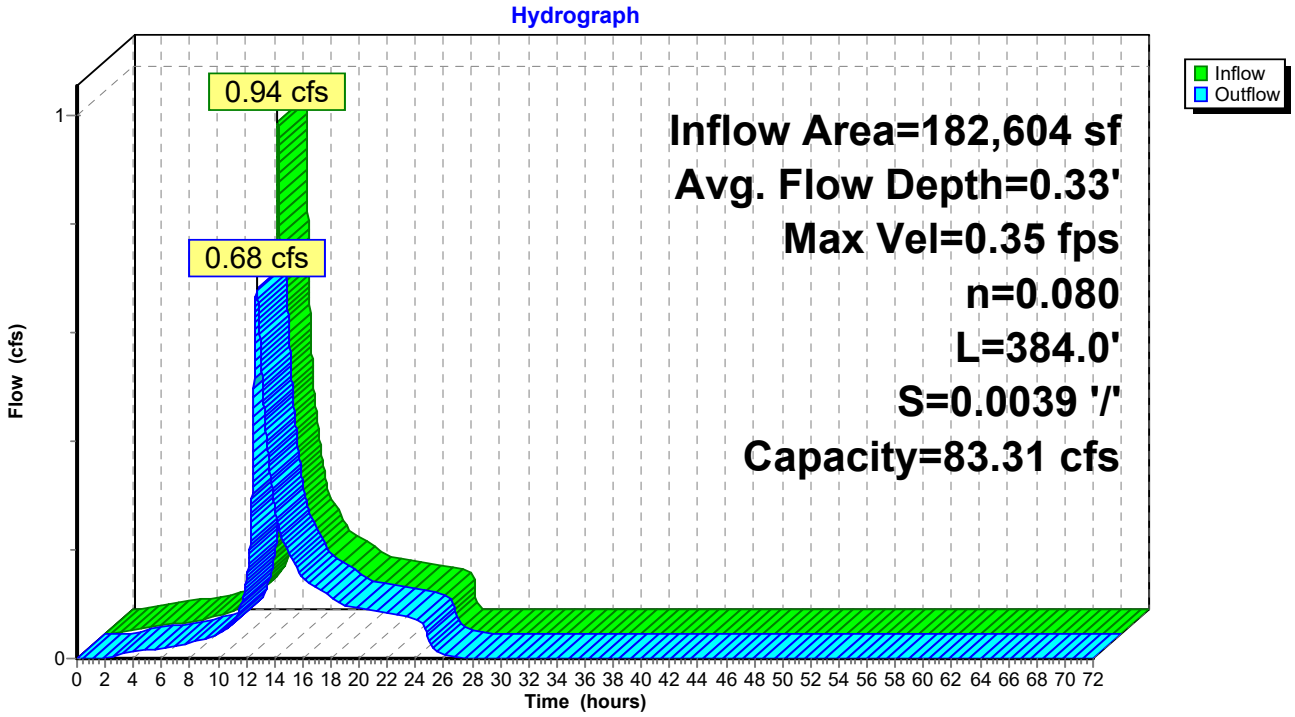
Peak Storage= 752 cf @ 12.43 hrs
Average Depth at Peak Storage= 0.33' , Surface Width= 11.87'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 83.31 cfs

0.00' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 384.0' Slope= 0.0039 '/'
Inlet Invert= 162.50', Outlet Invert= 161.00'



‡

Reach 33R: DA2B West Swale



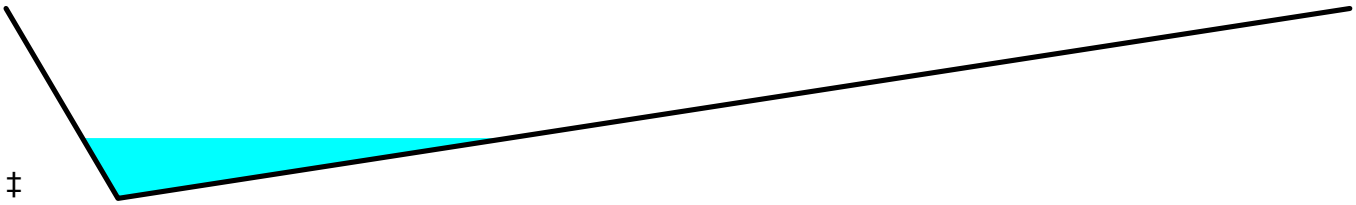
Summary for Reach 34R: DA4 West Swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 3.43" for 10-year_current event
Inflow = 5.87 cfs @ 12.10 hrs, Volume= 19,960 cf
Outflow = 4.04 cfs @ 12.30 hrs, Volume= 19,960 cf, Atten= 31%, Lag= 12.2 min
Routed to Reach 43R : DA4 Roadside swale

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.56 fps, Min. Travel Time= 10.7 min
Avg. Velocity = 0.19 fps, Avg. Travel Time= 32.0 min

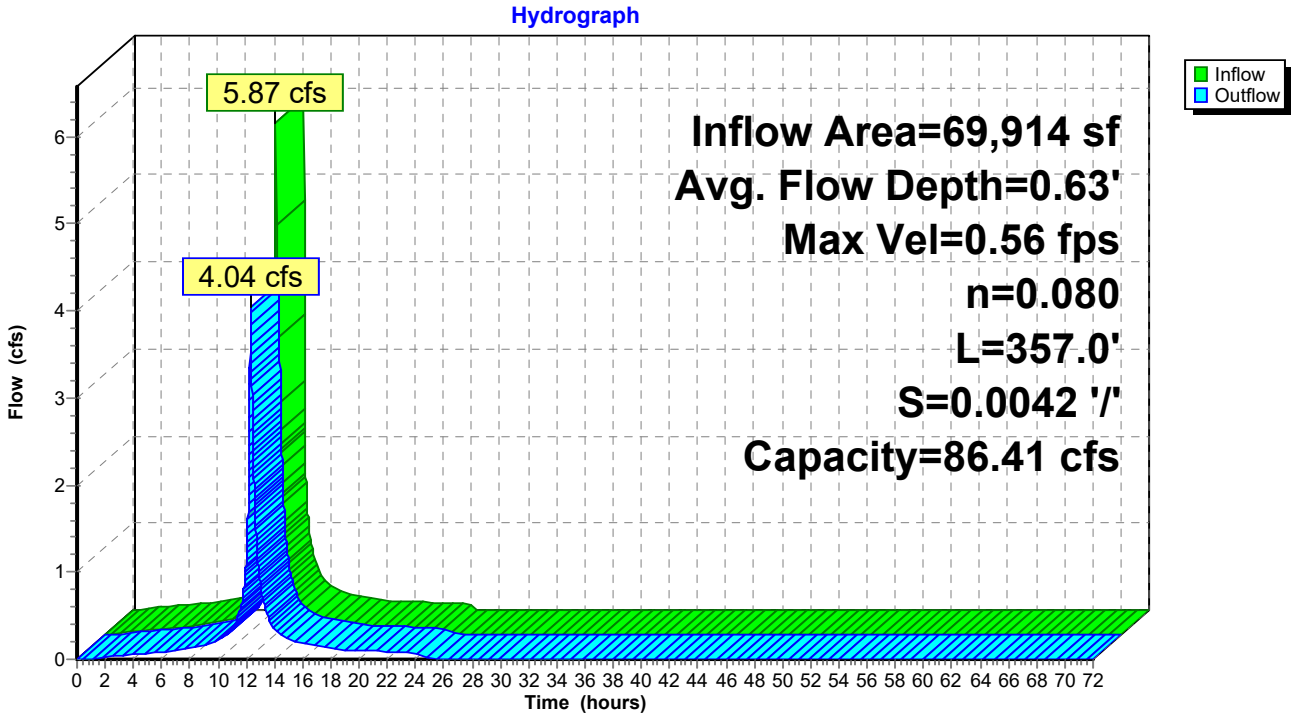
Peak Storage= 2,588 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.63' , Surface Width= 22.84'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 86.41 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 357.0' Slope= 0.0042 '/'
Inlet Invert= 163.50', Outlet Invert= 162.00'



‡

Reach 34R: DA4 West Swale



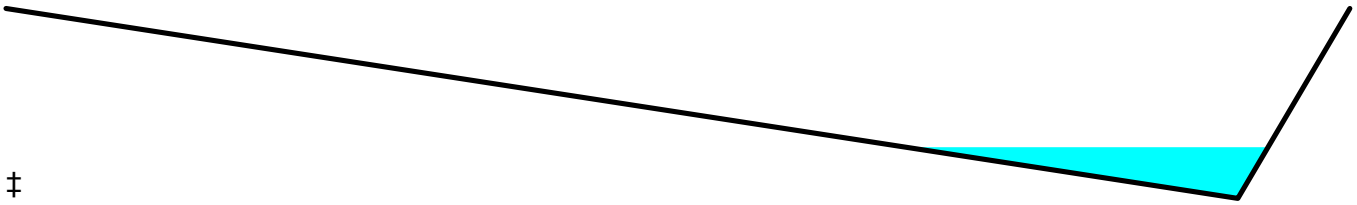
Summary for Reach 35R: DA2A West Swale

Inflow Area = 55,016 sf, 69.91% Impervious, Inflow Depth = 3.63" for 10-year_current event
Inflow = 4.91 cfs @ 12.10 hrs, Volume= 16,628 cf
Outflow = 3.04 cfs @ 12.36 hrs, Volume= 16,628 cf, Atten= 38%, Lag= 16.0 min
Routed to Pond 26P : Basin 2A Forebay

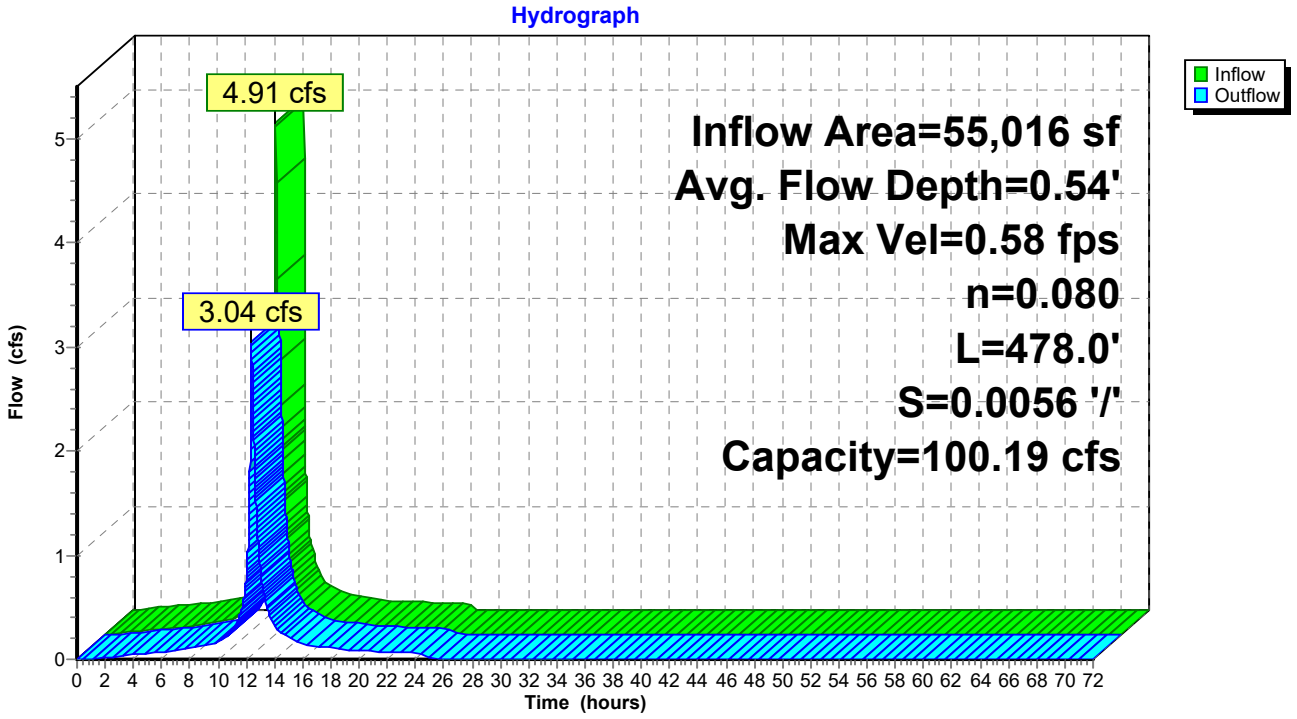
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.58 fps, Min. Travel Time= 13.7 min
Avg. Velocity = 0.19 fps, Avg. Travel Time= 40.9 min

Peak Storage= 2,504 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.54' , Surface Width= 19.42'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 100.19 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 478.0' Slope= 0.0056 '/'
Inlet Invert= 162.20', Outlet Invert= 159.50'



‡



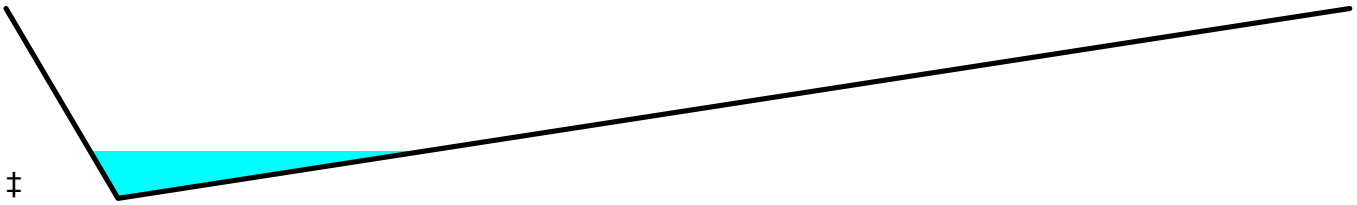
Summary for Reach 36R: DA2A East Swale

Inflow Area = 51,183 sf, 71.06% Impervious, Inflow Depth = 3.68" for 10-year_current event
Inflow = 4.57 cfs @ 12.11 hrs, Volume= 15,705 cf
Outflow = 4.29 cfs @ 12.17 hrs, Volume= 15,705 cf, Atten= 6%, Lag= 3.6 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.96 fps, Min. Travel Time= 2.5 min
Avg. Velocity = 0.37 fps, Avg. Travel Time= 6.7 min

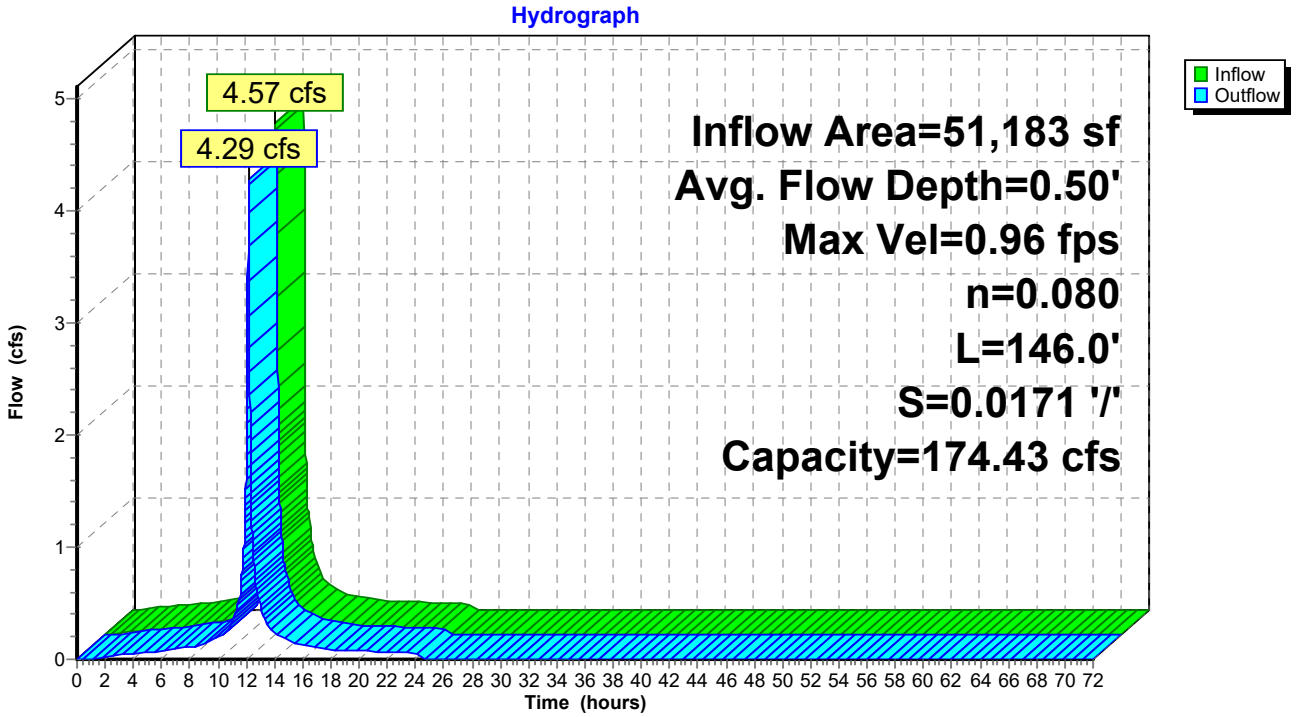
Peak Storage= 653 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.50' , Surface Width= 17.95'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 174.43 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 146.0' Slope= 0.0171 '/'
Inlet Invert= 162.00', Outlet Invert= 159.50'



‡

Reach 36R: DA2A East Swale



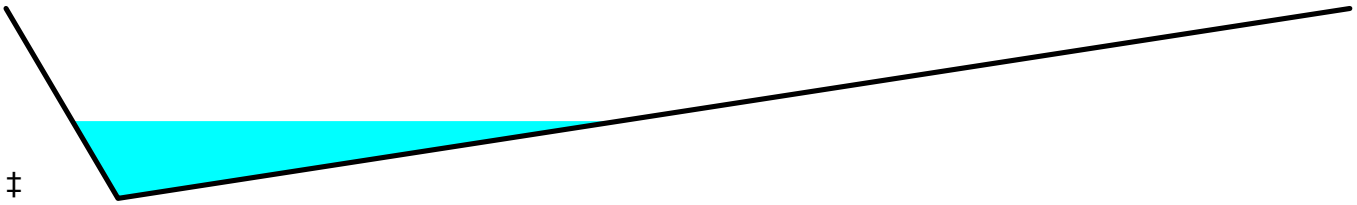
Summary for Reach 37R: DA1B Swale

Inflow Area = 104,152 sf, 91.22% Impervious, Inflow Depth = 4.65" for 10-year_current event
Inflow = 11.97 cfs @ 12.10 hrs, Volume= 40,364 cf
Outflow = 8.76 cfs @ 12.29 hrs, Volume= 40,364 cf, Atten= 27%, Lag= 10.8 min
Routed to Pond 18P : Basin 1B Forebay

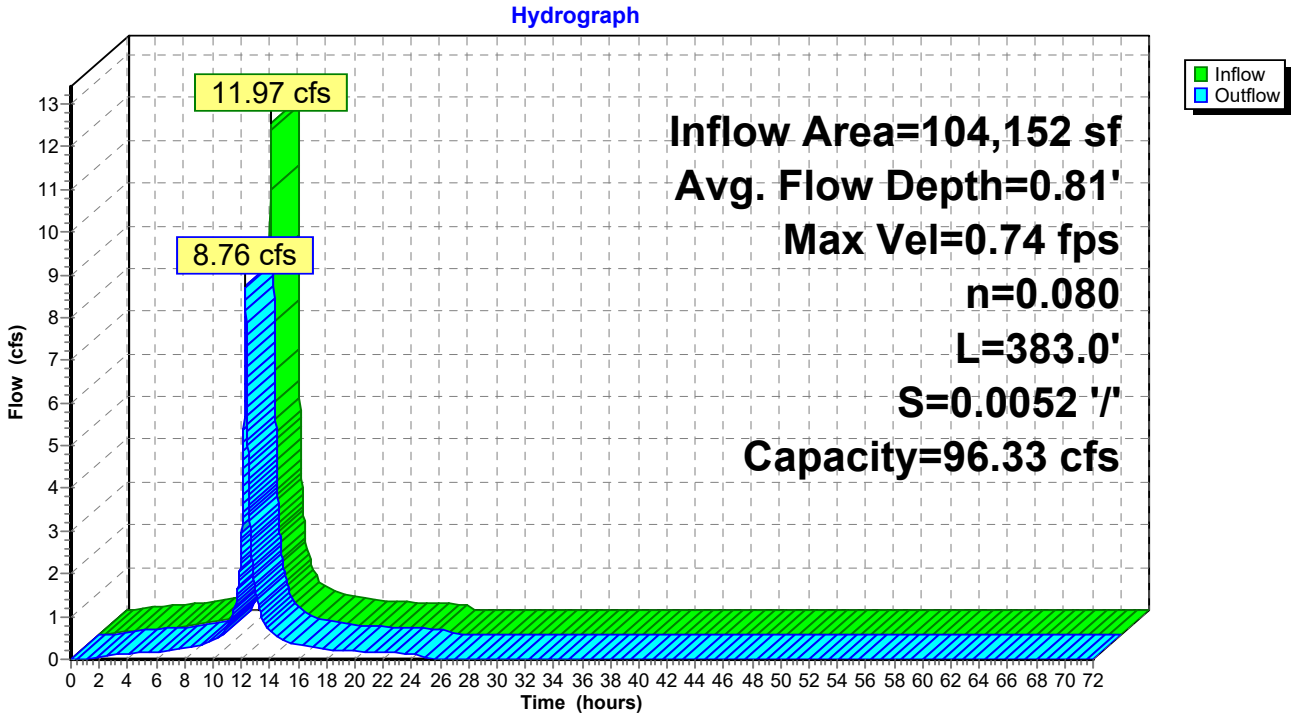
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.74 fps, Min. Travel Time= 8.7 min
Avg. Velocity = 0.24 fps, Avg. Travel Time= 26.9 min

Peak Storage= 4,573 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.81' , Surface Width= 29.32'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 96.33 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 383.0' Slope= 0.0052 '/'
Inlet Invert= 162.00', Outlet Invert= 160.00'



‡



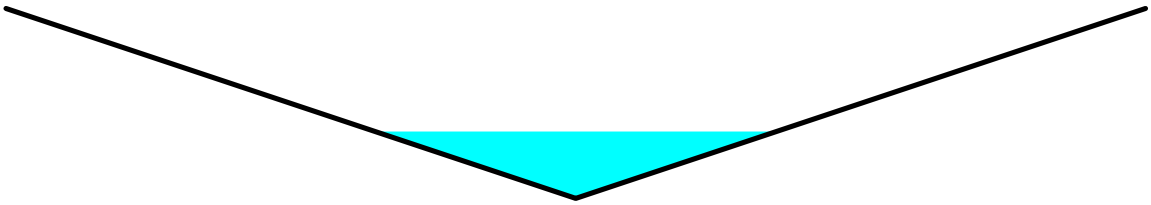
Summary for Reach 38R: DA3 Swale

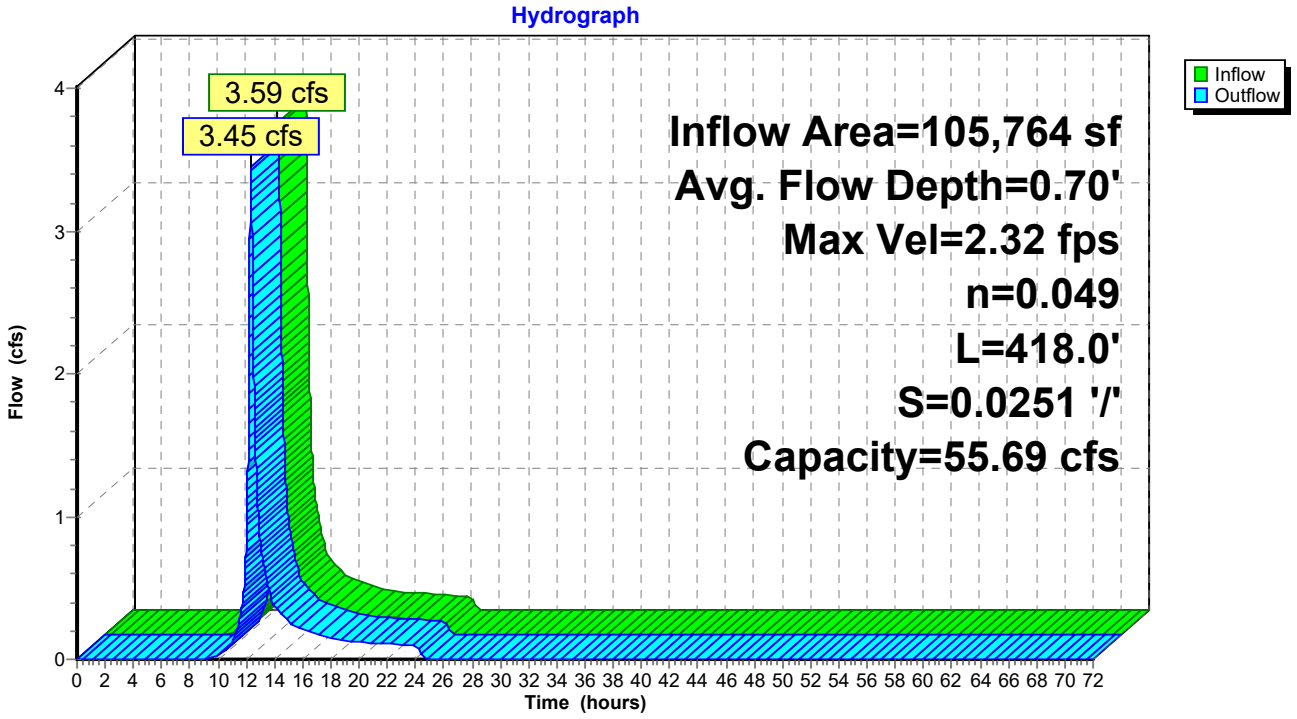
Inflow Area = 105,764 sf, 0.00% Impervious, Inflow Depth = 1.80" for 10-year_current event
Inflow = 3.59 cfs @ 12.23 hrs, Volume= 15,821 cf
Outflow = 3.45 cfs @ 12.32 hrs, Volume= 15,821 cf, Atten= 4%, Lag= 5.4 min
Routed to Pond 38P : Basin 3 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.32 fps, Min. Travel Time= 3.0 min
Avg. Velocity = 0.98 fps, Avg. Travel Time= 7.1 min

Peak Storage= 623 cf @ 12.27 hrs
Average Depth at Peak Storage= 0.70' , Surface Width= 4.23'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 55.69 cfs

0.00' x 2.00' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 418.0' Slope= 0.0251 '/'
Inlet Invert= 158.50', Outlet Invert= 148.00'





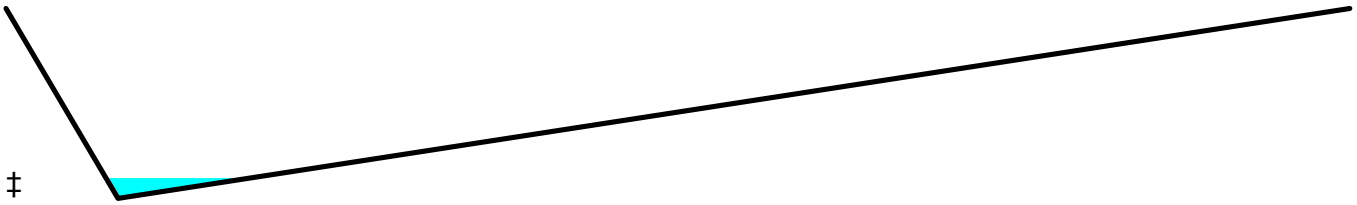
Summary for Reach 39R: DA 1A Central Swale A

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.57" for 10-year_current event
Inflow = 0.41 cfs @ 12.22 hrs, Volume= 3,493 cf
Outflow = 0.24 cfs @ 12.91 hrs, Volume= 3,493 cf, Atten= 41%, Lag= 41.6 min
Routed to Reach 41R : DA 1A Central Swale B

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.30 fps, Min. Travel Time= 28.1 min
Avg. Velocity = 0.13 fps, Avg. Travel Time= 62.2 min

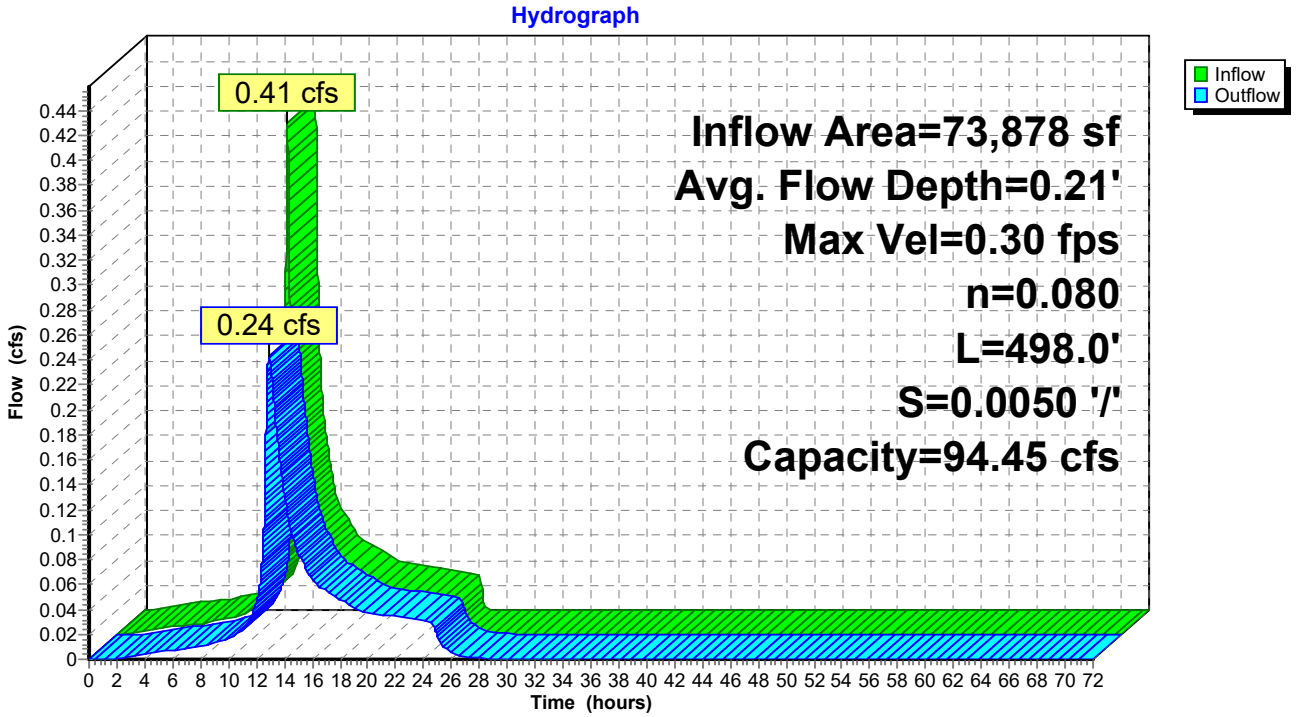
Peak Storage= 409 cf @ 12.45 hrs
Average Depth at Peak Storage= 0.21' , Surface Width= 7.68'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 94.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 498.0' Slope= 0.0050 '/'
Inlet Invert= 171.00', Outlet Invert= 168.50'



‡

Reach 39R: DA 1A Central Swale A



Summary for Reach 41R: DA 1A Central Swale B

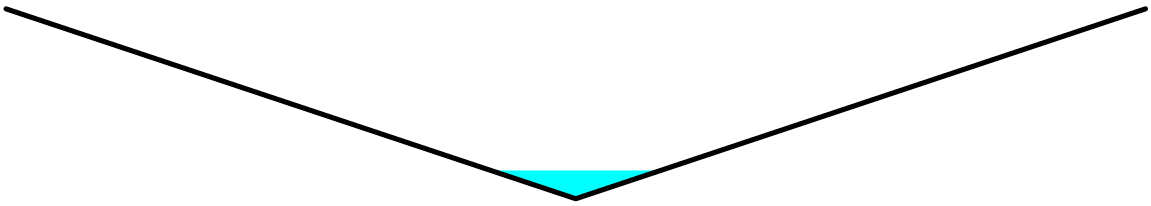
[62] Hint: Exceeded Reach 39R OUTLET depth by 0.11' @ 13.07 hrs

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.57" for 10-year_current event
Inflow = 0.24 cfs @ 12.91 hrs, Volume= 3,493 cf
Outflow = 0.24 cfs @ 13.03 hrs, Volume= 3,493 cf, Atten= 1%, Lag= 6.7 min
Routed to Reach 30R : DA1A West Swale

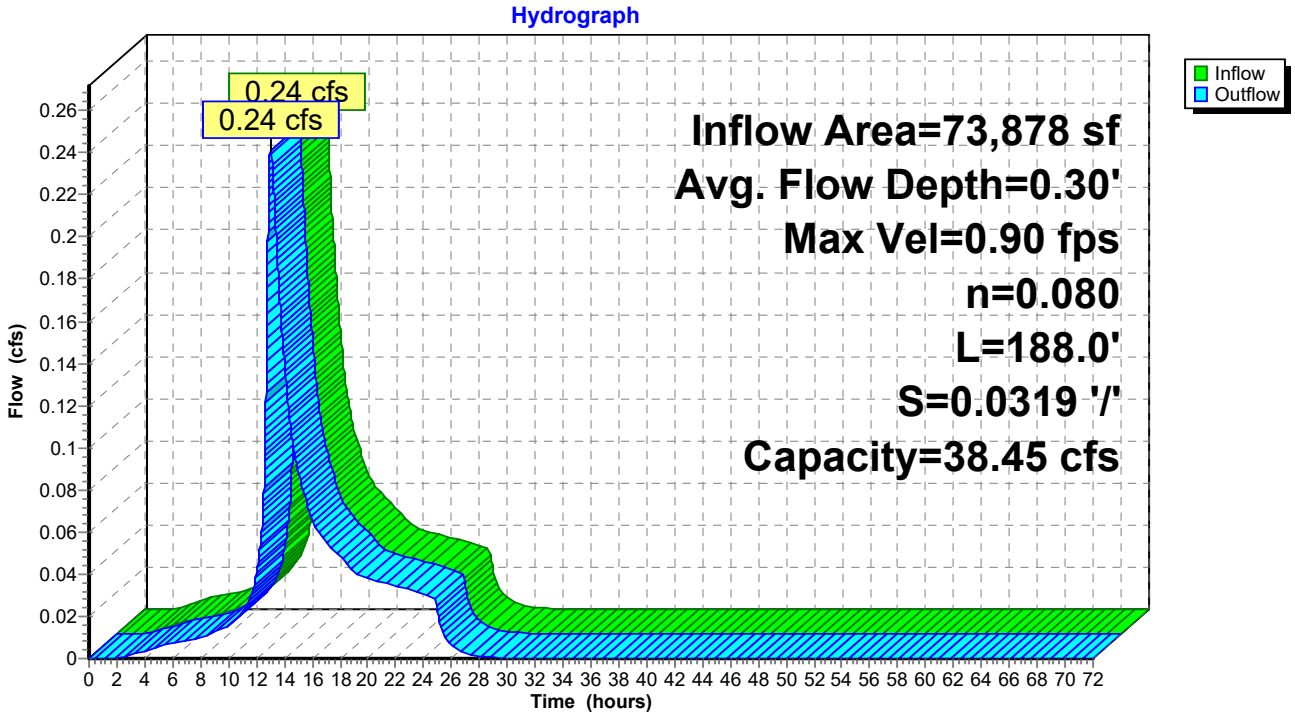
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.90 fps, Min. Travel Time= 3.5 min
Avg. Velocity = 0.41 fps, Avg. Travel Time= 7.6 min

Peak Storage= 50 cf @ 12.97 hrs
Average Depth at Peak Storage= 0.30' , Surface Width= 1.79'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 38.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 188.0' Slope= 0.0319 '/'
Inlet Invert= 168.50', Outlet Invert= 162.50'



Reach 41R: DA 1A Central Swale B



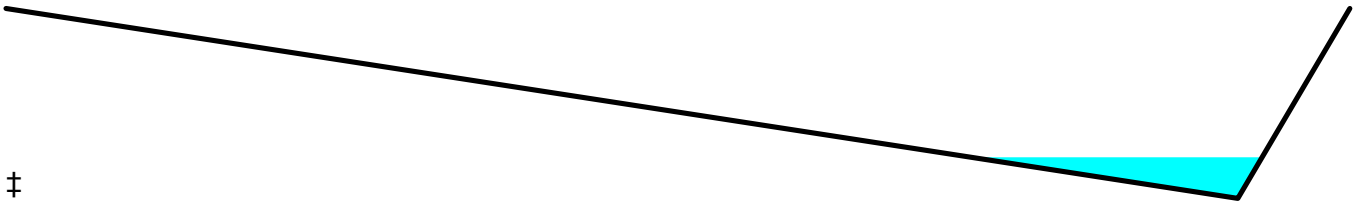
Summary for Reach 42R: DA4 East Swale

Inflow Area = 37,810 sf, 57.37% Impervious, Inflow Depth = 3.02" for 10-year_current event
Inflow = 2.74 cfs @ 12.11 hrs, Volume= 9,529 cf
Outflow = 2.57 cfs @ 12.16 hrs, Volume= 9,529 cf, Atten= 6%, Lag= 3.5 min
Routed to Pond 39P : Basin 4 Forebay

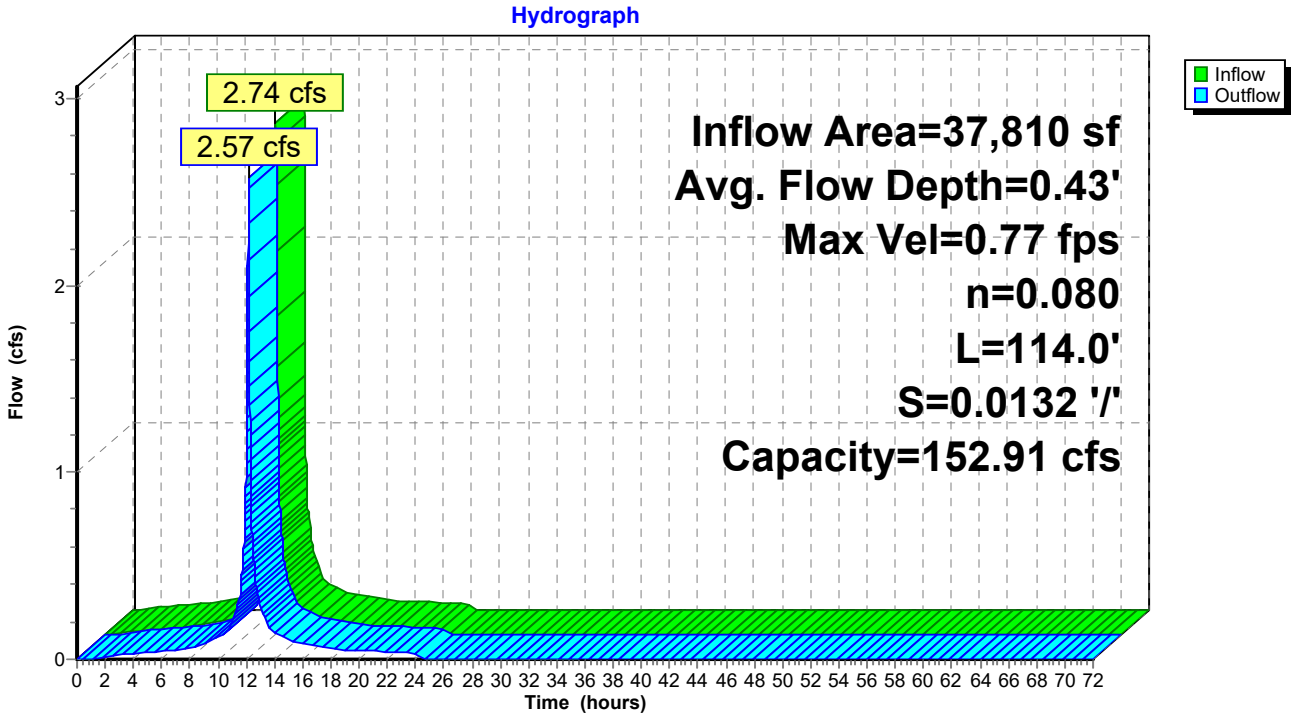
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.77 fps, Min. Travel Time= 2.5 min
Avg. Velocity = 0.30 fps, Avg. Travel Time= 6.4 min

Peak Storage= 384 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.43' , Surface Width= 15.57'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 152.91 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 114.0' Slope= 0.0132 '/'
Inlet Invert= 159.50', Outlet Invert= 158.00'



‡



Summary for Reach 43R: DA4 Roadside swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 3.43" for 10-year_current event
Inflow = 4.04 cfs @ 12.30 hrs, Volume= 19,960 cf
Outflow = 4.00 cfs @ 12.33 hrs, Volume= 19,960 cf, Atten= 1%, Lag= 1.3 min
Routed to Reach 44R : DA4 Culvert

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.21 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 0.63 fps, Avg. Travel Time= 2.7 min

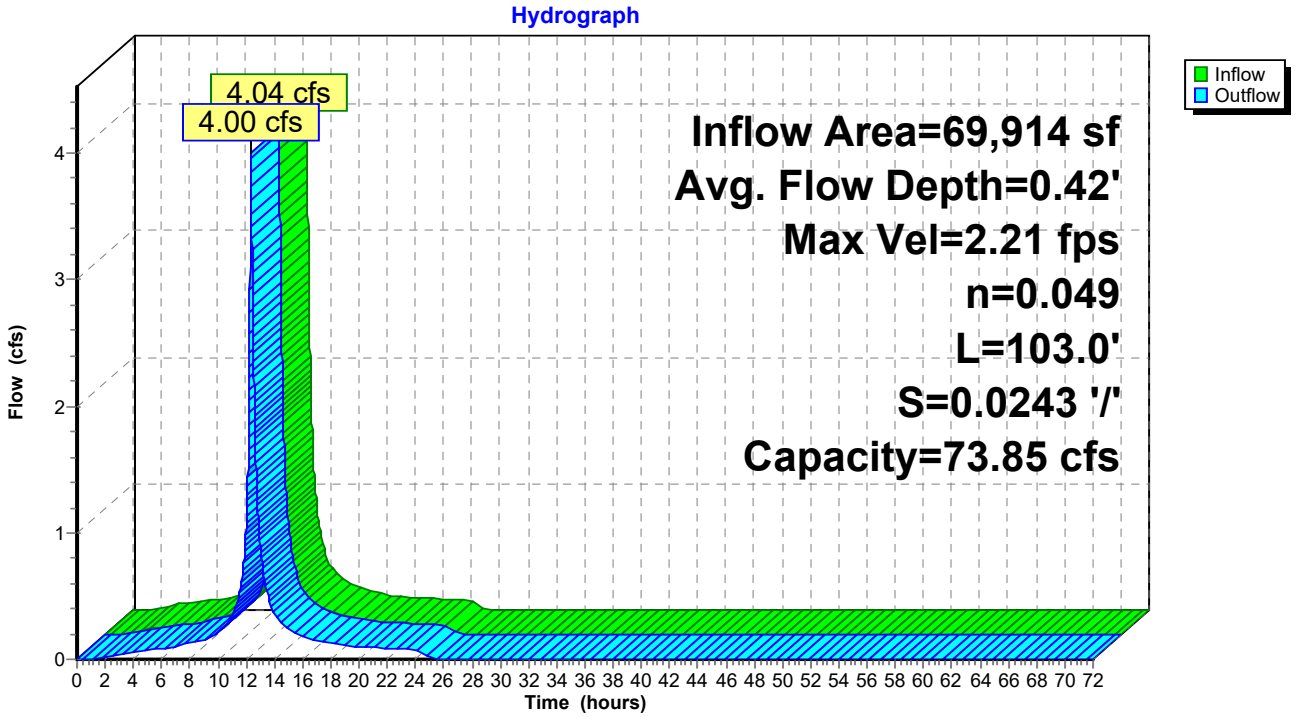
Peak Storage= 187 cf @ 12.31 hrs
Average Depth at Peak Storage= 0.42' , Surface Width= 5.55'
Bank-Full Depth= 1.80' Flow Area= 15.1 sf, Capacity= 73.85 cfs

3.00' x 1.80' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 13.80'
Length= 103.0' Slope= 0.0243 '/'
Inlet Invert= 160.20', Outlet Invert= 157.70'



‡

Reach 43R: DA4 Roadside swale



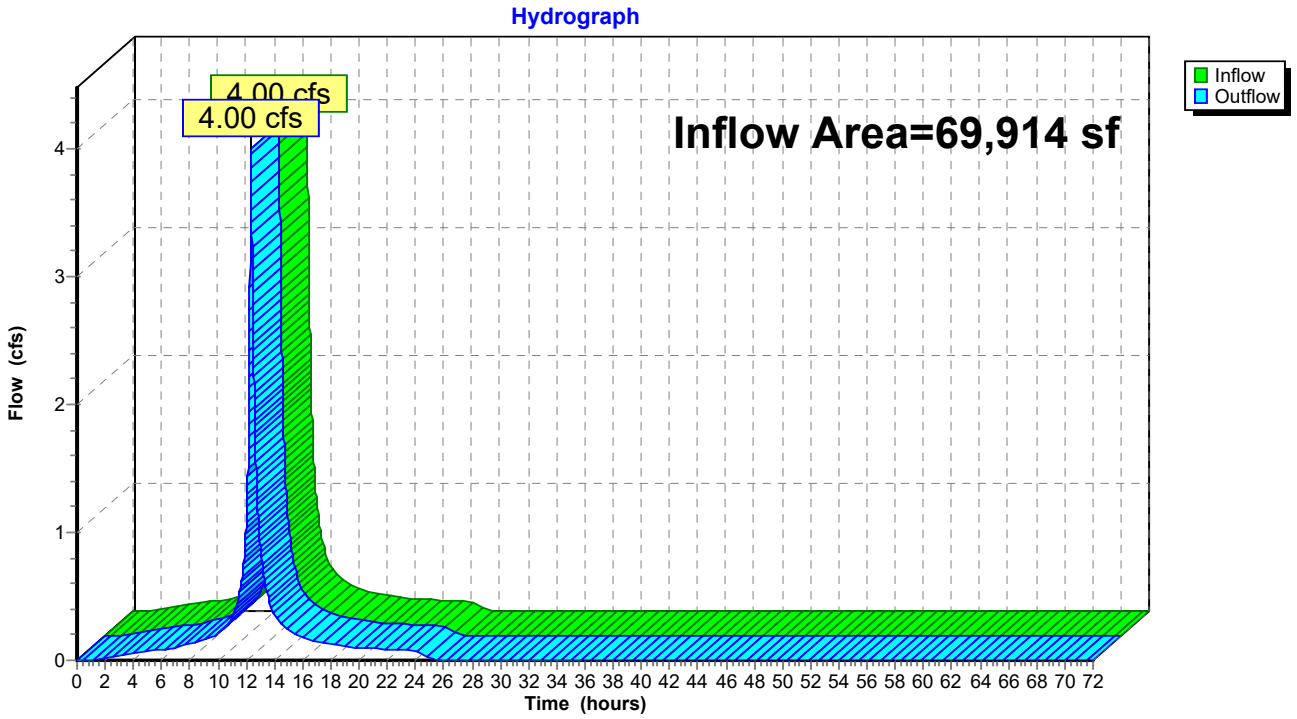
Summary for Reach 44R: DA4 Culvert

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 3.43" for 10-year_current event
Inflow = 4.00 cfs @ 12.33 hrs, Volume= 19,960 cf
Outflow = 4.00 cfs @ 12.33 hrs, Volume= 19,960 cf, Atten= 0%, Lag= 0.0 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach 44R: DA4 Culvert

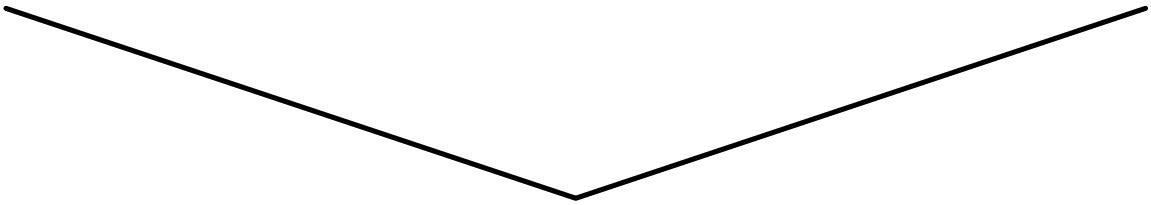


Summary for Reach 45R: DA2B Road Swale

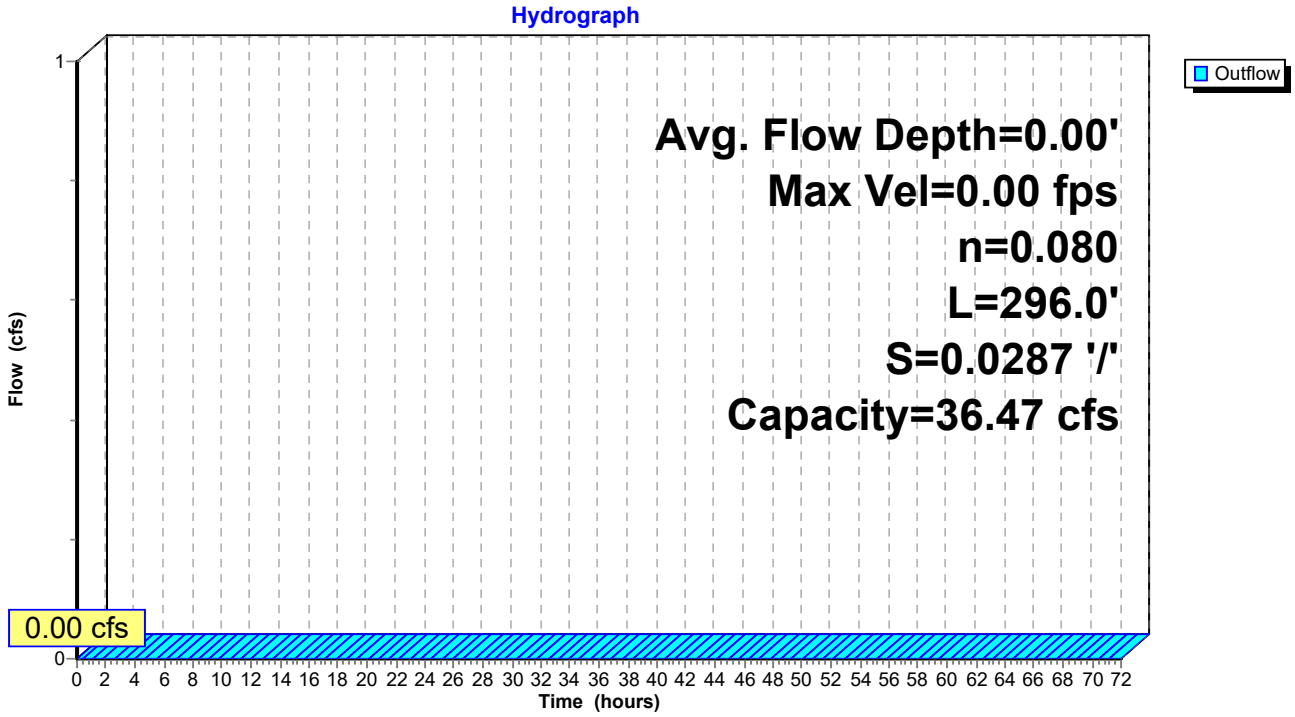
[43] Hint: Has no inflow (Outflow=Zero)

Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 36.47 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 296.0' Slope= 0.0287 '/'
Inlet Invert= 171.00', Outlet Invert= 162.50'



Reach 45R: DA2B Road Swale



Summary for Pond 15P: Basin 1A Forebay

Inflow Area = 510,150 sf, 6.82% Impervious, Inflow Depth = 0.59" for 10-year_current event
Inflow = 1.42 cfs @ 13.05 hrs, Volume= 25,283 cf
Outflow = 1.42 cfs @ 13.09 hrs, Volume= 22,045 cf, Atten= 0%, Lag= 2.0 min
Primary = 1.42 cfs @ 13.09 hrs, Volume= 22,045 cf
Routed to Pond 48P : Basin 1A Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.93' @ 13.09 hrs Surf.Area= 1,783 sf Storage= 3,462 cf

Plug-Flow detention time= 131.4 min calculated for 22,045 cf (87% of inflow)
Center-of-Mass det. time= 60.3 min (1,009.5 - 949.2)

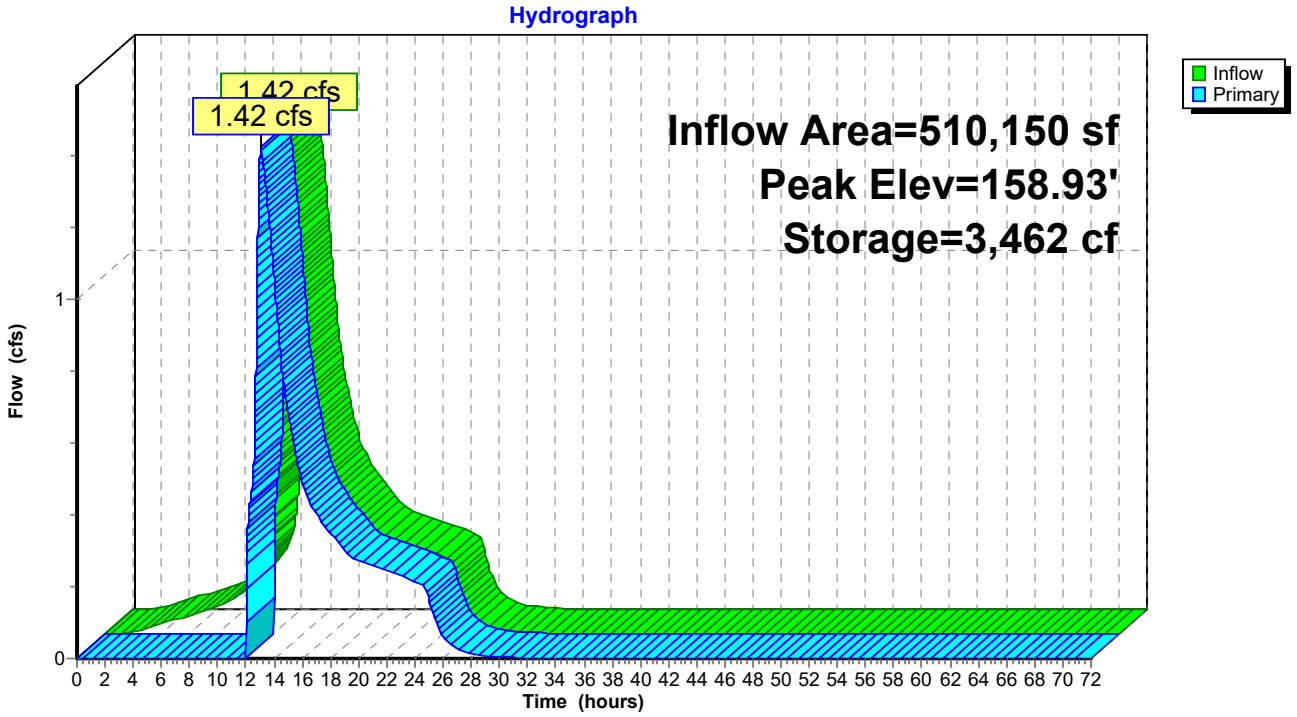
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	3,964 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	662	0	0
156.20	723	138	138
156.70	885	402	540
157.20	1,062	487	1,027
157.70	1,253	579	1,606
158.20	1,458	678	2,284
158.70	1,677	784	3,067
159.20	1,910	897	3,964

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.80'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Primary	159.00'	**25.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=1.41 cfs @ 13.09 hrs HW=158.93' (Free Discharge)
└**2=Culvert** (Passes 1.41 cfs of 16.58 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 1.41 cfs @ 1.17 fps)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 15P: Basin 1A Forebay



Summary for Pond 18P: Basin 1B Forebay

Inflow Area = 114,201 sf, 89.03% Impervious, Inflow Depth = 4.57" for 10-year_current event
Inflow = 9.01 cfs @ 12.29 hrs, Volume= 43,503 cf
Outflow = 8.18 cfs @ 12.33 hrs, Volume= 33,493 cf, Atten= 9%, Lag= 2.4 min
Primary = 8.18 cfs @ 12.33 hrs, Volume= 33,493 cf
Routed to Pond 43P : Basin 1B Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.91' @ 12.33 hrs Surf.Area= 5,238 sf Storage= 12,103 cf

Plug-Flow detention time= 180.6 min calculated for 33,493 cf (77% of inflow)
Center-of-Mass det. time= 86.7 min (857.0 - 770.3)

Volume	Invert	Avail.Storage	Storage Description
#1	155.98'	18,291 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

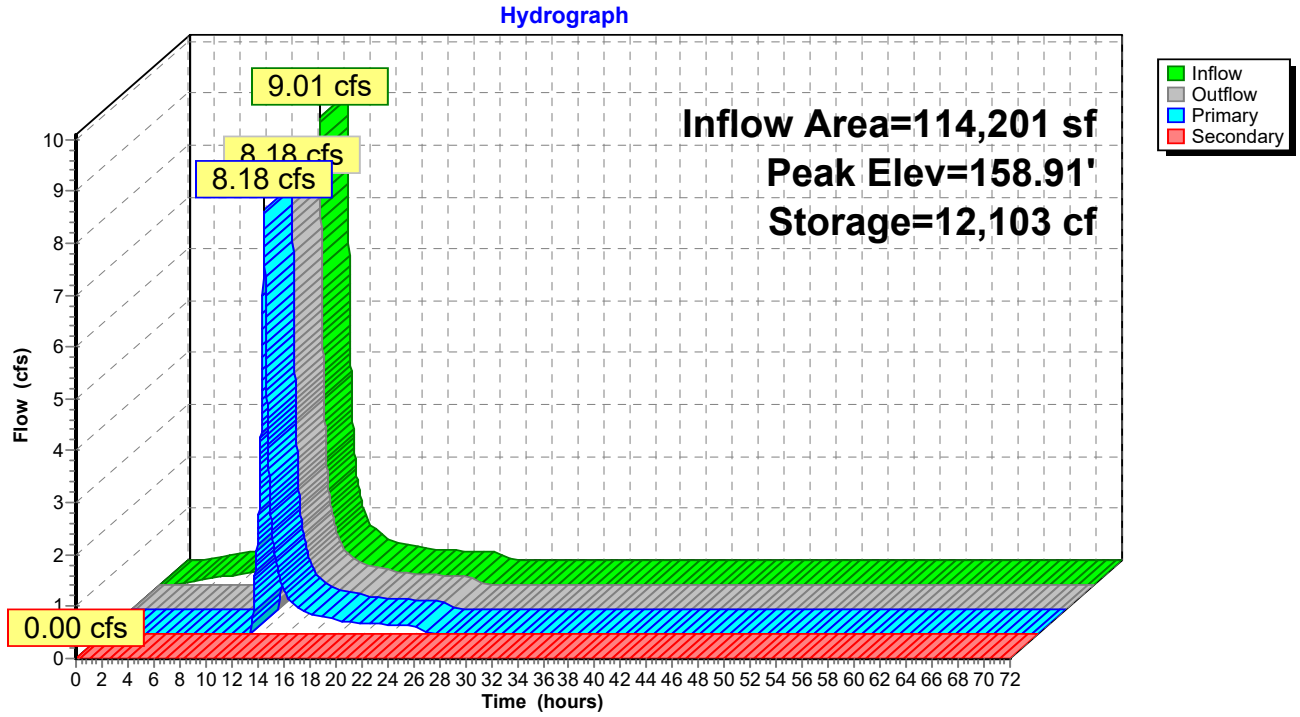
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.98	3,096	0	0
156.00	3,108	62	62
156.50	3,440	1,637	1,699
157.00	3,785	1,806	3,505
157.50	4,145	1,983	5,488
158.00	4,518	2,166	7,654
158.50	4,906	2,356	10,010
159.00	5,308	2,554	12,563
159.50	5,724	2,758	15,321
160.00	6,154	2,970	18,291

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	159.50'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=8.17 cfs @ 12.33 hrs HW=158.91' (Free Discharge)
└**2=Culvert** (Passes 8.17 cfs of 9.88 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 8.17 cfs @ 2.10 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 18P: Basin 1B Forebay



Summary for Pond 26P: Basin 2A Forebay

Inflow Area = 114,388 sf, 72.58% Impervious, Inflow Depth = 3.76" for 10-year_current event
Inflow = 5.91 cfs @ 12.17 hrs, Volume= 35,795 cf
Outflow = 5.37 cfs @ 12.20 hrs, Volume= 28,549 cf, Atten= 9%, Lag= 1.9 min
Primary = 5.37 cfs @ 12.20 hrs, Volume= 28,549 cf
Routed to Pond 44P : Basin 2A Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.01' @ 12.20 hrs Surf.Area= 5,162 sf Storage= 8,817 cf

Plug-Flow detention time= 170.7 min calculated for 28,545 cf (80% of inflow)
Center-of-Mass det. time= 82.2 min (853.1 - 770.9)

Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	11,435 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

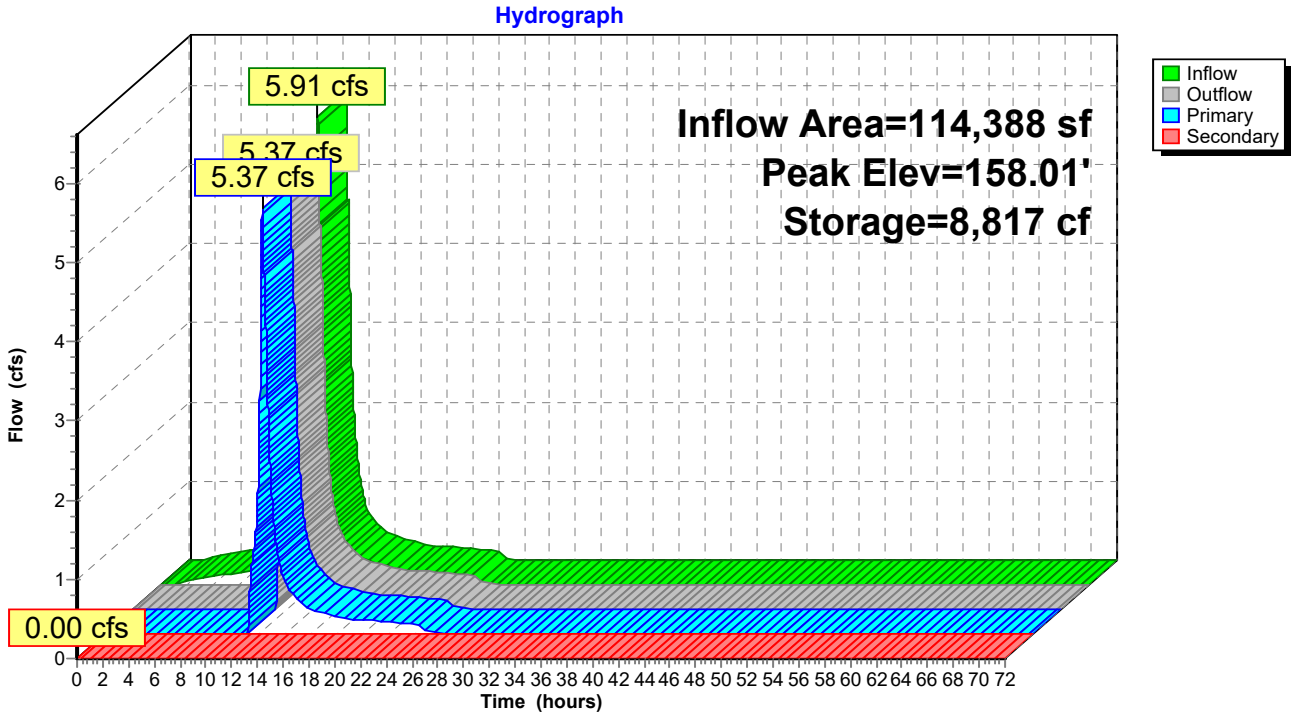
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	3,639	0	0
156.50	3,996	1,909	1,909
157.00	4,367	2,091	4,000
157.50	4,753	2,280	6,280
158.00	5,152	2,476	8,756
158.50	5,566	2,680	11,435

Device	Routing	Invert	Outlet Devices
#1	Secondary	158.30'	**20.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32
#2	Device 3	157.70'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Primary	156.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.00' S= 0.0417 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.36 cfs @ 12.20 hrs HW=158.01' (Free Discharge)
└**3=Culvert** (Passes 5.36 cfs of 7.55 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 5.36 cfs @ 1.83 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 26P: Basin 2A Forebay



Summary for Pond 38P: Basin 3 Forebay

Inflow Area = 106,766 sf, 0.94% Impervious, Inflow Depth = 1.83" for 10-year_current event
Inflow = 3.47 cfs @ 12.32 hrs, Volume= 16,245 cf
Outflow = 1.59 cfs @ 12.62 hrs, Volume= 10,787 cf, Atten= 54%, Lag= 17.9 min
Primary = 1.59 cfs @ 12.62 hrs, Volume= 10,787 cf
Routed to Pond 60P : Basin 3 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 145.64' @ 12.62 hrs Surf.Area= 4,288 sf Storage= 6,046 cf

Plug-Flow detention time= 206.3 min calculated for 10,787 cf (66% of inflow)
Center-of-Mass det. time= 87.6 min (958.1 - 870.5)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	18,417 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

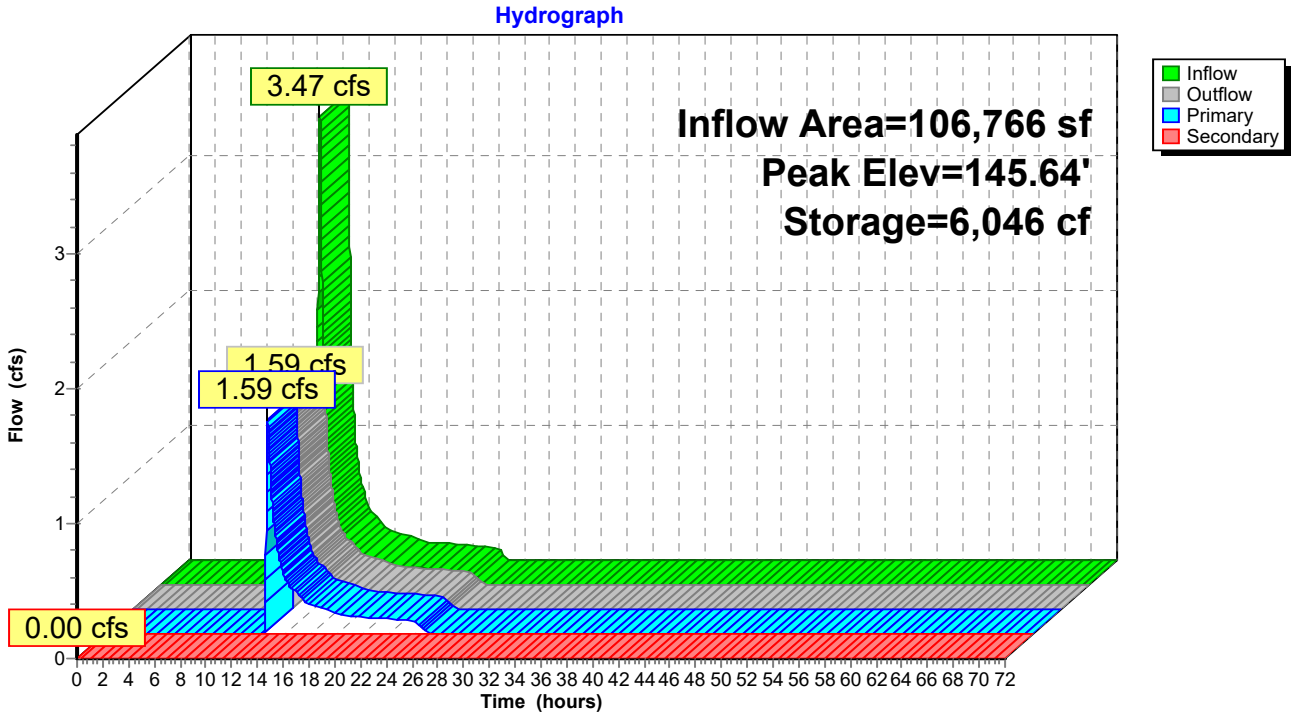
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.00	3,115	0	0
144.50	3,456	1,643	1,643
145.00	3,812	1,817	3,460
145.50	4,182	1,999	5,458
146.00	4,565	2,187	7,645
146.50	4,963	2,382	10,027
147.00	5,375	2,585	12,612
147.50	5,802	2,794	15,406
148.00	6,242	3,011	18,417

Device	Routing	Invert	Outlet Devices
#1	Device 2	145.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	144.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 144.00' / 143.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=1.59 cfs @ 12.62 hrs HW=145.64' (Free Discharge)
└**2=Culvert** (Passes 1.59 cfs of 6.33 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 1.59 cfs @ 1.22 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 38P: Basin 3 Forebay



Summary for Pond 39P: Basin 4 Forebay

[62] Hint: Exceeded Reach 42R OUTLET depth by 0.03' @ 12.39 hrs

Inflow Area = 112,908 sf, 64.51% Impervious, Inflow Depth = 3.37" for 10-year_current event
Inflow = 5.02 cfs @ 12.32 hrs, Volume= 31,680 cf
Outflow = 4.82 cfs @ 12.35 hrs, Volume= 22,470 cf, Atten= 4%, Lag= 1.6 min
Primary = 4.82 cfs @ 12.35 hrs, Volume= 22,470 cf
Routed to Pond 51P : Basin 4 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.29' @ 12.35 hrs Surf.Area= 4,317 sf Storage= 10,432 cf

Plug-Flow detention time= 209.2 min calculated for 22,470 cf (71% of inflow)
Center-of-Mass det. time= 100.1 min (874.6 - 774.5)

Volume	Invert	Avail.Storage	Storage Description
#1	155.00'	15,703 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

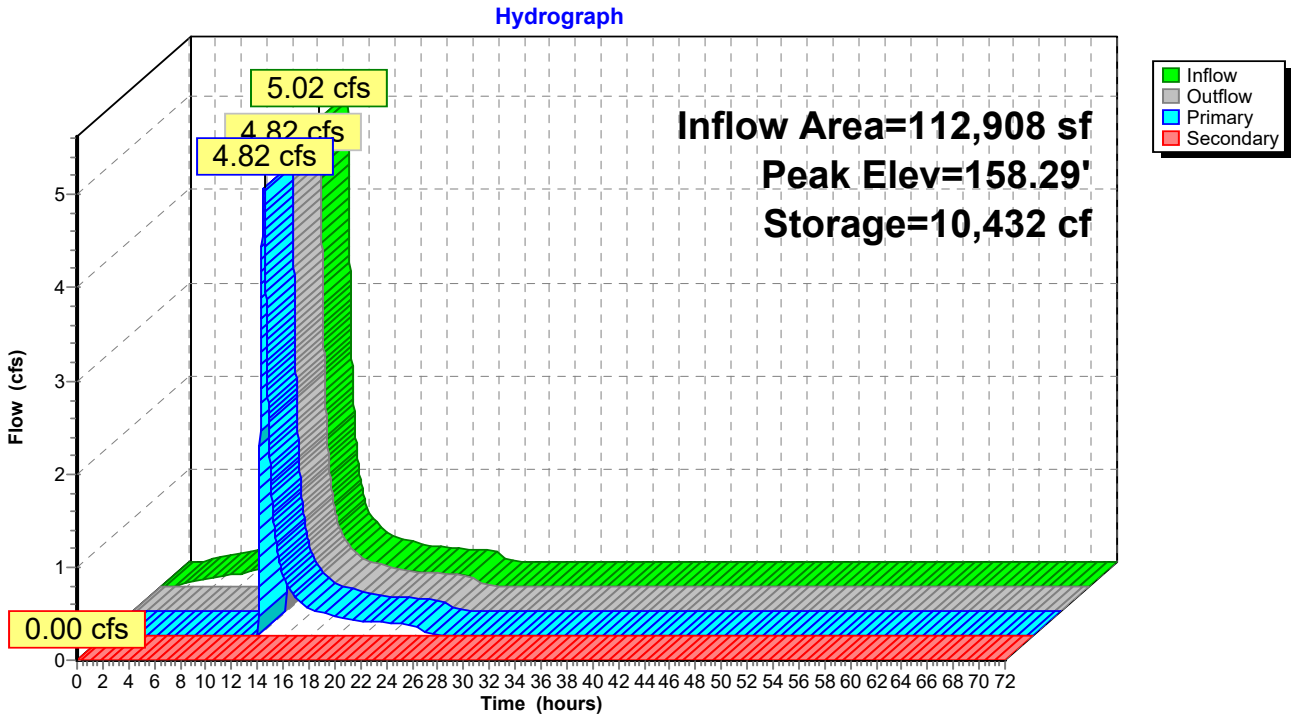
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.00	2,116	0	0
155.40	2,360	895	895
155.90	2,665	1,256	2,151
156.40	2,983	1,412	3,563
156.90	3,316	1,575	5,138
157.40	3,663	1,745	6,883
157.50	3,734	370	7,253
157.90	4,024	1,552	8,804
158.40	4,400	2,106	10,910
158.90	4,789	2,297	13,208
159.40	5,192	2,495	15,703

Device	Routing	Invert	Outlet Devices
#1	Primary	155.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 155.00' / 154.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	158.00'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	158.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=4.81 cfs @ 12.35 hrs HW=158.29' (Free Discharge)
└─**1=Culvert** (Passes 4.81 cfs of 10.71 cfs potential flow)
└─**2=Orifice/Grate** (Weir Controls 4.81 cfs @ 1.76 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└─**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 39P: Basin 4 Forebay



Summary for Pond 43P: Basin 1B Bioretention

[79] Warning: Submerged Pond 18P Primary device # 2 INLET by 1.64'

Inflow Area = 126,097 sf, 87.23% Impervious, Inflow Depth = 3.55" for 10-year_current event
Inflow = 8.40 cfs @ 12.33 hrs, Volume= 37,350 cf
Outflow = 1.65 cfs @ 13.15 hrs, Volume= 17,363 cf, Atten= 80%, Lag= 49.4 min
Primary = 1.65 cfs @ 13.15 hrs, Volume= 17,363 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.64' @ 13.15 hrs Surf.Area= 7,412 sf Storage= 21,027 cf

Plug-Flow detention time= 282.0 min calculated for 17,363 cf (46% of inflow)
Center-of-Mass det. time= 155.1 min (1,001.7 - 846.6)

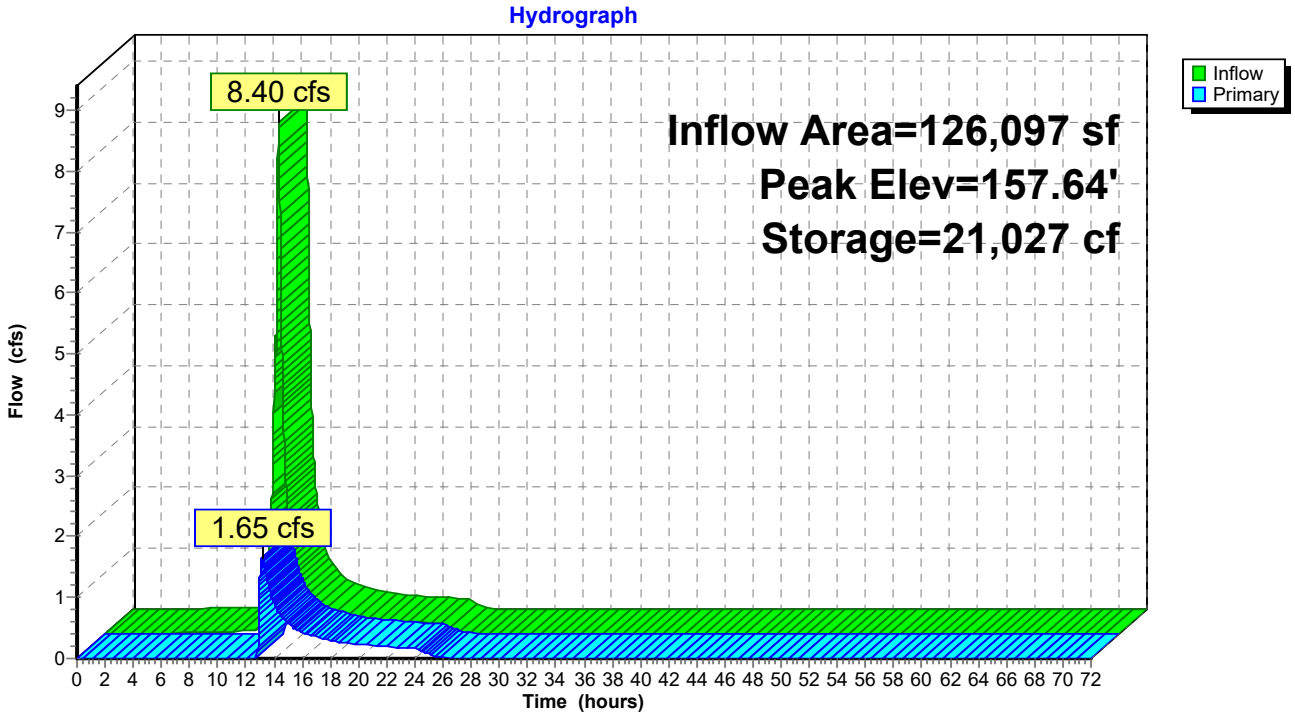
Volume	Invert	Avail.Storage	Storage Description
#1	153.98'	24,528 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.98	4,198	0	0
154.00	4,213	84	84
154.50	4,608	2,205	2,289
155.00	5,017	2,406	4,696
155.50	5,440	2,614	7,310
156.00	5,877	2,829	10,139
156.50	6,328	3,051	13,190
157.00	6,793	3,280	16,471
157.50	7,272	3,516	19,987
158.00	7,768	3,760	23,747
158.10	7,850	781	24,528

Device	Routing	Invert	Outlet Devices
#1	Device 2	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	154.00'	**24.0" Round Culvert** L= 32.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 152.00' S= 0.0625 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.64 cfs @ 13.15 hrs HW=157.64' (Free Discharge)
↑**2=Culvert** (Passes 1.64 cfs of 19.41 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 1.64 cfs @ 1.23 fps)

Pond 43P: Basin 1B Bioretention



Summary for Pond 44P: Basin 2A Bioretention

[79] Warning: Submerged Pond 26P Primary device # 3 INLET by 1.58'

Inflow Area = 127,935 sf, 75.49% Impervious, Inflow Depth = 3.21" for 10-year_current event
Inflow = 5.93 cfs @ 12.19 hrs, Volume= 34,276 cf
Outflow = 0.69 cfs @ 14.06 hrs, Volume= 11,592 cf, Atten= 88%, Lag= 112.3 min
Primary = 0.69 cfs @ 14.06 hrs, Volume= 11,592 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.58' @ 14.06 hrs Surf.Area= 8,467 sf Storage= 23,344 cf

Plug-Flow detention time= 382.3 min calculated for 11,590 cf (34% of inflow)
Center-of-Mass det. time= 235.7 min (1,070.3 - 834.6)

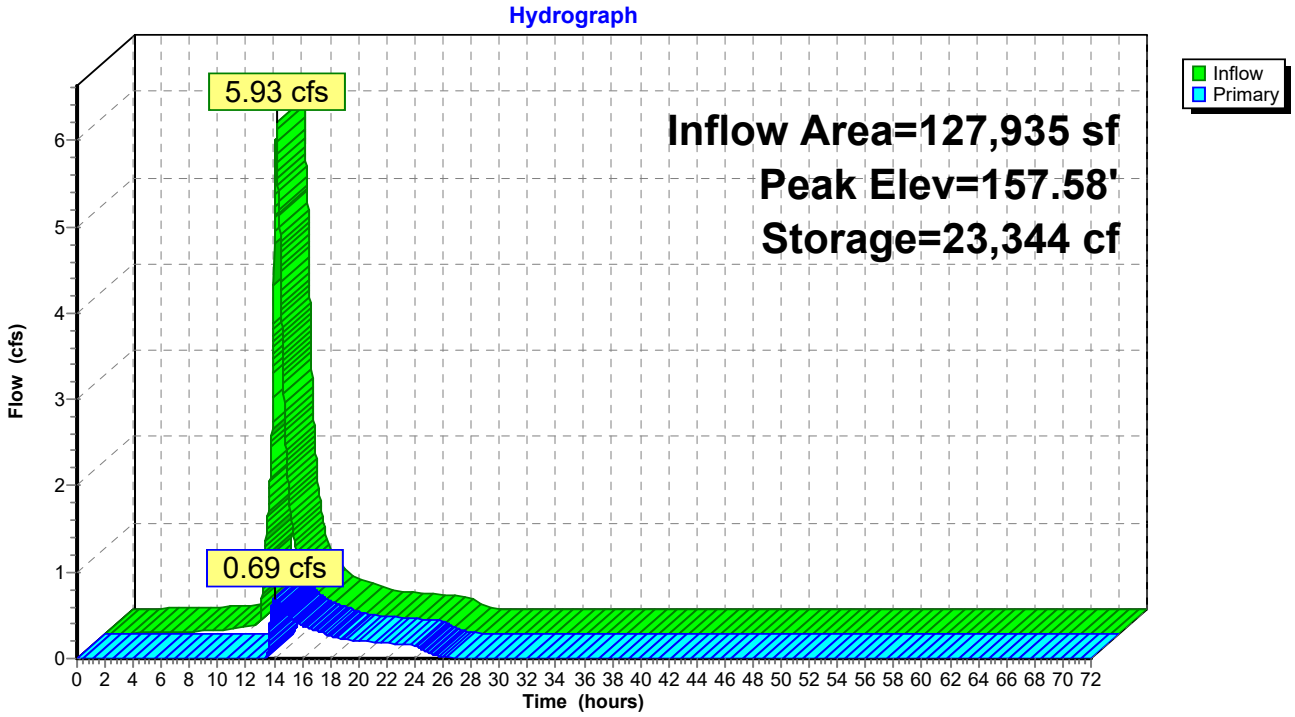
Volume	Invert	Avail.Storage	Storage Description
#1	154.00'	27,017 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
154.00	4,692	0	0
154.50	5,178	2,468	2,468
155.00	5,678	2,714	5,182
155.50	6,192	2,968	8,149
156.00	6,718	3,228	11,377
156.50	7,258	3,494	14,871
157.00	7,810	3,767	18,638
157.50	8,376	4,047	22,684
158.00	8,955	4,333	27,017

Device	Routing	Invert	Outlet Devices
#1	Primary	154.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 153.00' S= 0.0417 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.68 cfs @ 14.06 hrs HW=157.58' (Free Discharge)
↑**1=Culvert** (Passes 0.68 cfs of 11.30 cfs potential flow)
↑**2=Orifice/Grate** (Weir Controls 0.68 cfs @ 0.92 fps)

Pond 44P: Basin 2A Bioretention



Summary for Pond 45P: Basin 2A Infiltration

Inflow Area = 177,071 sf, 82.29% Impervious, Inflow Depth = 2.19" for 10-year_current event
Inflow = 6.28 cfs @ 12.09 hrs, Volume= 32,363 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 152.04' @ 71.66 hrs Surf.Area= 23,754 sf Storage= 32,361 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

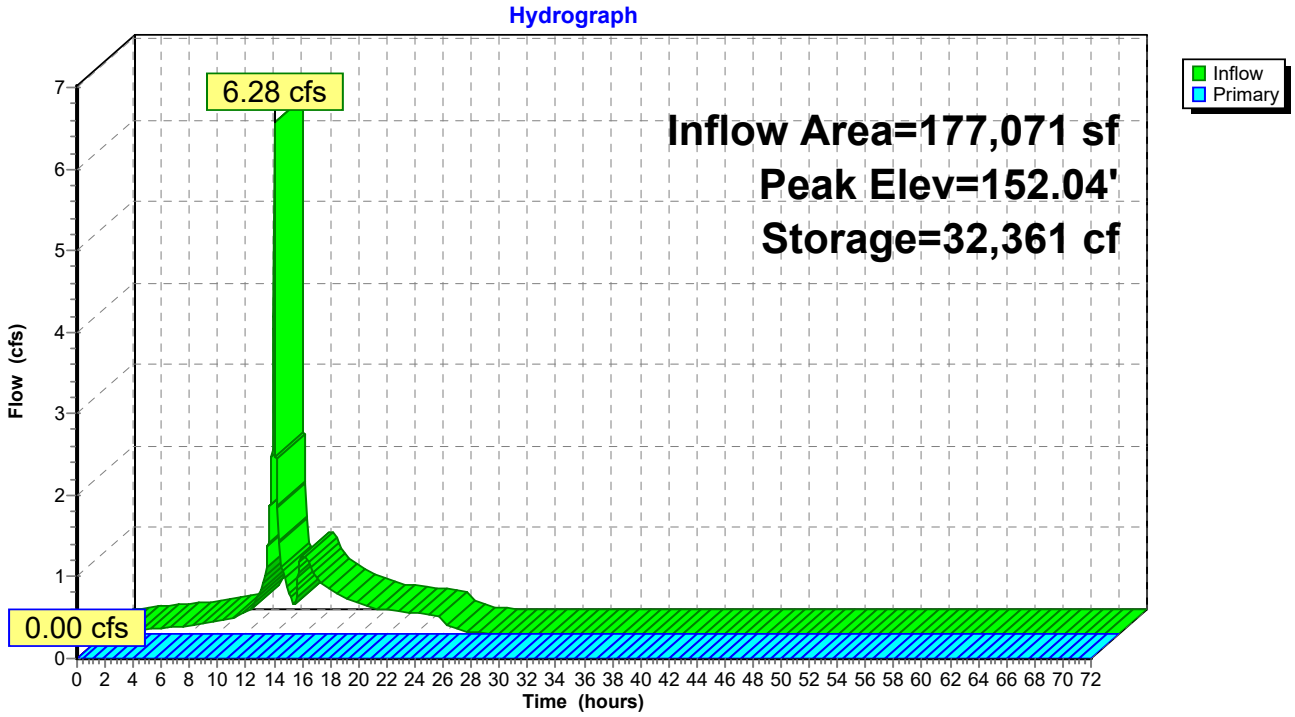
Volume	Invert	Avail.Storage	Storage Description
#1	150.50'	211,473 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.50	13,884	0	0
151.00	21,491	8,844	8,844
151.50	22,475	10,992	19,835
152.00	23,686	11,540	31,376
152.50	24,504	12,048	43,423
153.00	25,550	12,514	55,937
153.50	26,612	13,041	68,977
154.00	27,691	13,576	82,553
154.50	28,785	14,119	96,672
155.00	29,903	14,672	111,344
155.50	31,034	15,234	126,578
156.00	32,184	15,805	142,383
156.50	33,348	16,383	158,766
157.00	34,530	16,970	175,735
157.50	35,731	17,565	193,300
158.00	36,958	18,172	211,473

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.50' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 45P: Basin 2A Infiltration



Summary for Pond 46P: Basin 1B Infiltration

Inflow Area = 156,153 sf, 89.68% Impervious, Inflow Depth = 2.31" for 10-year_current event
Inflow = 3.84 cfs @ 12.09 hrs, Volume= 30,068 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 149.74' @ 71.70 hrs Surf.Area= 18,477 sf Storage= 30,067 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

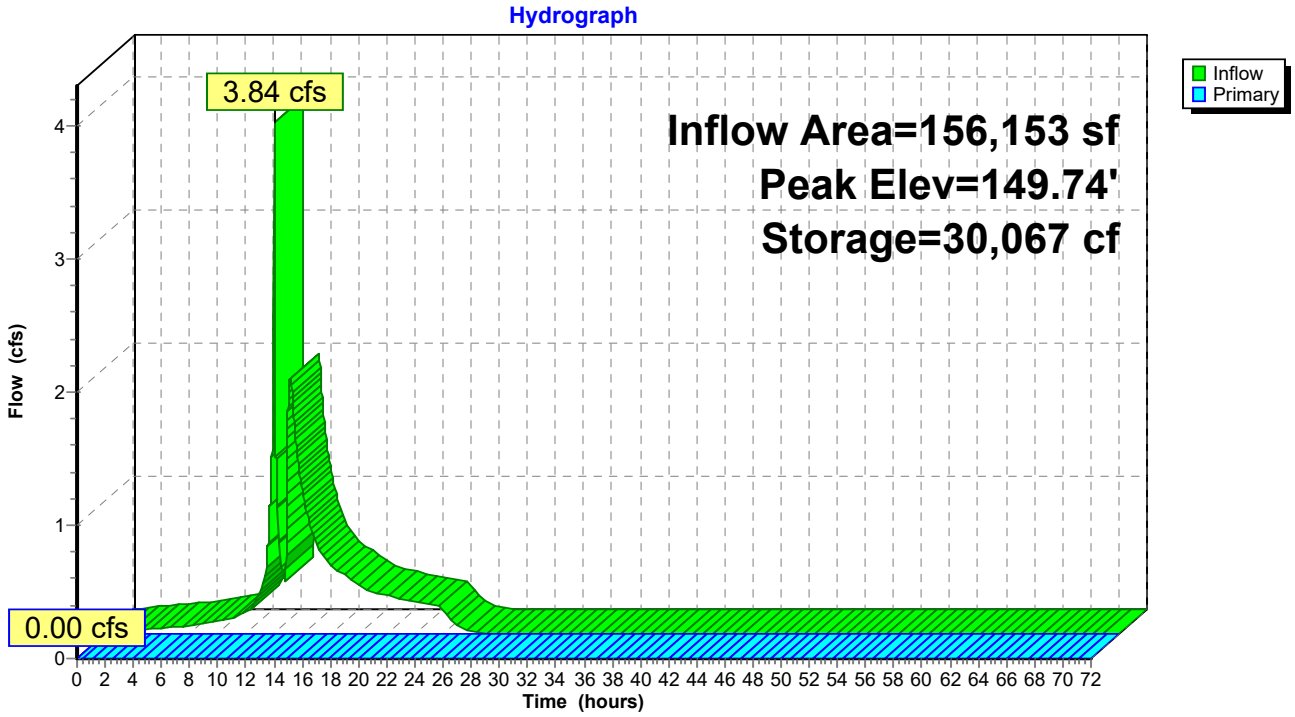
Volume	Invert	Avail.Storage	Storage Description
#1	147.98'	135,038 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.98	15,656	0	0
148.40	16,310	6,713	6,713
148.90	17,103	8,353	15,066
149.40	17,911	8,754	23,820
149.90	18,735	9,162	32,981
150.40	19,574	9,577	42,558
150.90	20,428	10,001	52,559
151.40	21,297	10,431	62,990
151.90	22,181	10,870	73,860
152.40	23,080	11,315	85,175
152.90	23,993	11,768	96,943
153.40	24,920	12,228	109,171
153.90	25,863	12,696	121,867
154.40	26,819	13,171	135,038

Device	Routing	Invert	Outlet Devices
#1	Primary	153.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.98' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 46P: Basin 1B Infiltration



Summary for Pond 48P: Basin 1A Infiltration Basin

Inflow Area = 562,771 sf, 15.53% Impervious, Inflow Depth = 0.94" for 10-year_current event
Inflow = 6.92 cfs @ 12.09 hrs, Volume= 44,289 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 151.86' @ 72.00 hrs Surf.Area= 25,854 sf Storage= 44,288 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

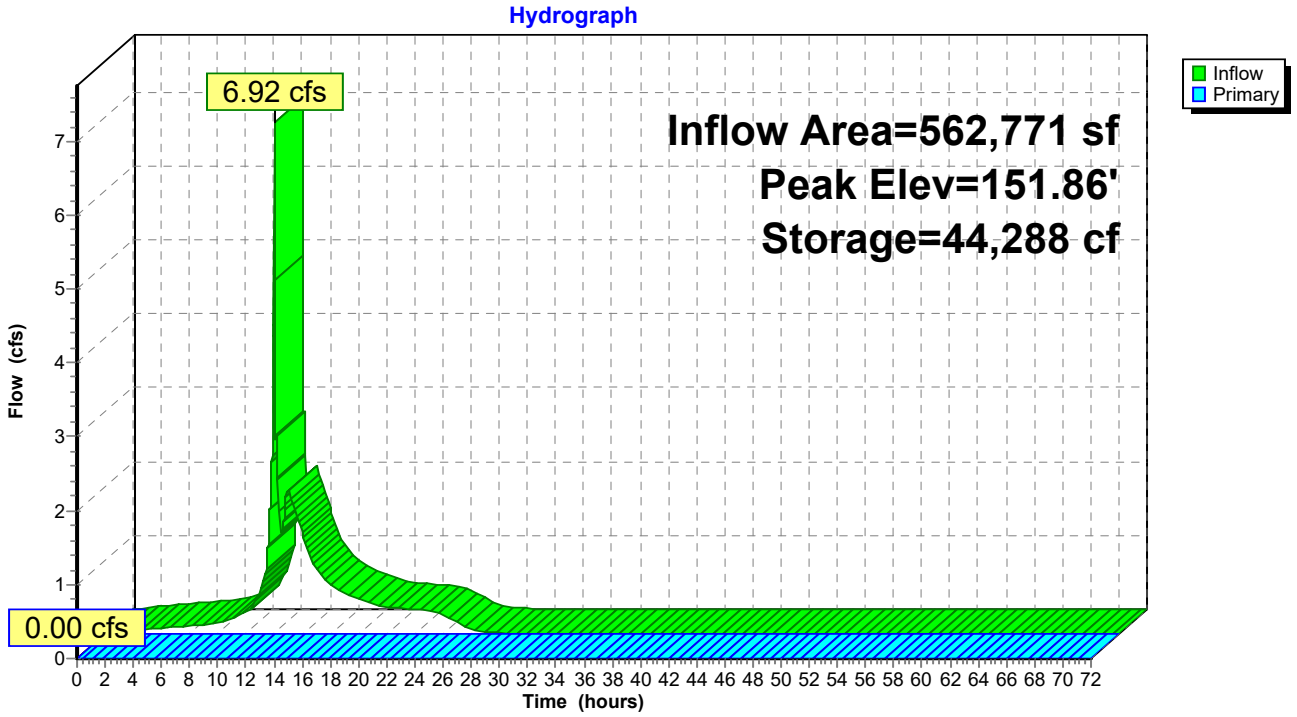
Volume	Invert	Avail.Storage	Storage Description
#1	150.00'	298,930 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.00	21,799	0	0
150.20	22,236	4,403	4,403
150.70	23,295	11,383	15,786
151.20	24,380	11,919	27,705
151.70	25,491	12,468	40,173
152.20	26,624	13,029	53,201
152.70	27,774	13,600	66,801
153.20	28,940	14,179	80,979
153.70	30,120	14,765	95,744
154.20	31,316	15,359	111,103
154.70	32,526	15,961	127,064
155.20	33,749	16,569	143,633
155.70	34,987	17,184	160,817
156.20	36,240	17,807	178,623
156.70	37,506	18,437	197,060
157.20	38,786	19,073	216,133
157.70	40,081	19,717	235,850
158.20	41,390	20,368	256,217
158.70	42,718	21,027	277,244
159.20	44,026	21,686	298,930

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**30.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' (Free Discharge)
↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 48P: Basin 1A Infiltration Basin



Summary for Pond 51P: Basin 4 Bioretention

[79] Warning: Submerged Pond 39P Primary device # 1 INLET by 1.60'

Inflow Area = 148,627 sf, 52.11% Impervious, Inflow Depth = 2.21" for 10-year_current event
Inflow = 5.14 cfs @ 12.35 hrs, Volume= 27,372 cf
Outflow = 0.98 cfs @ 13.52 hrs, Volume= 12,849 cf, Atten= 81%, Lag= 70.0 min
Primary = 0.98 cfs @ 13.52 hrs, Volume= 12,849 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 156.60' @ 13.52 hrs Surf.Area= 6,233 sf Storage= 15,137 cf

Plug-Flow detention time= 303.9 min calculated for 12,847 cf (47% of inflow)
Center-of-Mass det. time= 164.9 min (1,036.6 - 871.7)

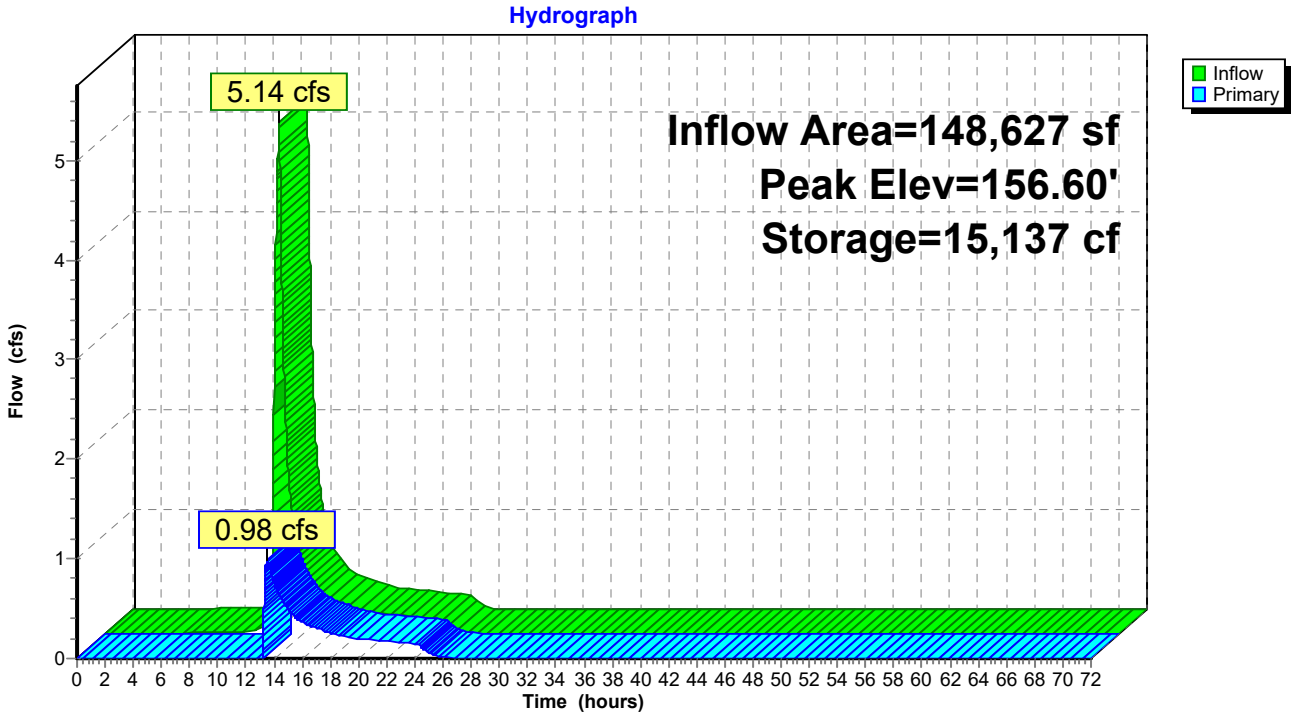
Volume	Invert	Avail.Storage	Storage Description
#1	153.00'	36,070 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.00	2,922	0	0
153.90	3,287	2,794	2,794
154.40	3,735	1,756	4,550
154.90	4,199	1,984	6,533
155.40	4,678	2,219	8,752
155.90	5,172	2,463	11,215
156.40	5,682	2,714	13,928
156.50	6,207	594	14,523
156.90	6,314	2,504	17,027
157.40	6,748	3,266	20,292
157.90	7,305	3,513	23,806
158.40	7,877	3,796	27,601
158.90	8,465	4,086	31,687
159.40	9,068	4,383	36,070

Device	Routing	Invert	Outlet Devices
#1	Device 2	156.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	153.00'	**24.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 153.00' / 152.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.96 cfs @ 13.52 hrs HW=156.60' (Free Discharge)
↑**2=Culvert** (Passes 0.96 cfs of 19.25 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 0.96 cfs @ 1.03 fps)

Pond 51P: Basin 4 Bioretention



Summary for Pond 52P: Basin 4 Infiltration

[79] Warning: Submerged Pond 51P Primary device # 2 INLET by 1.63'

Inflow Area = 180,774 sf, 56.17% Impervious, Inflow Depth = 1.58" for 10-year_current event
Inflow = 3.09 cfs @ 12.09 hrs, Volume= 23,796 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.63' @ 68.06 hrs Surf.Area= 12,873 sf Storage= 23,796 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

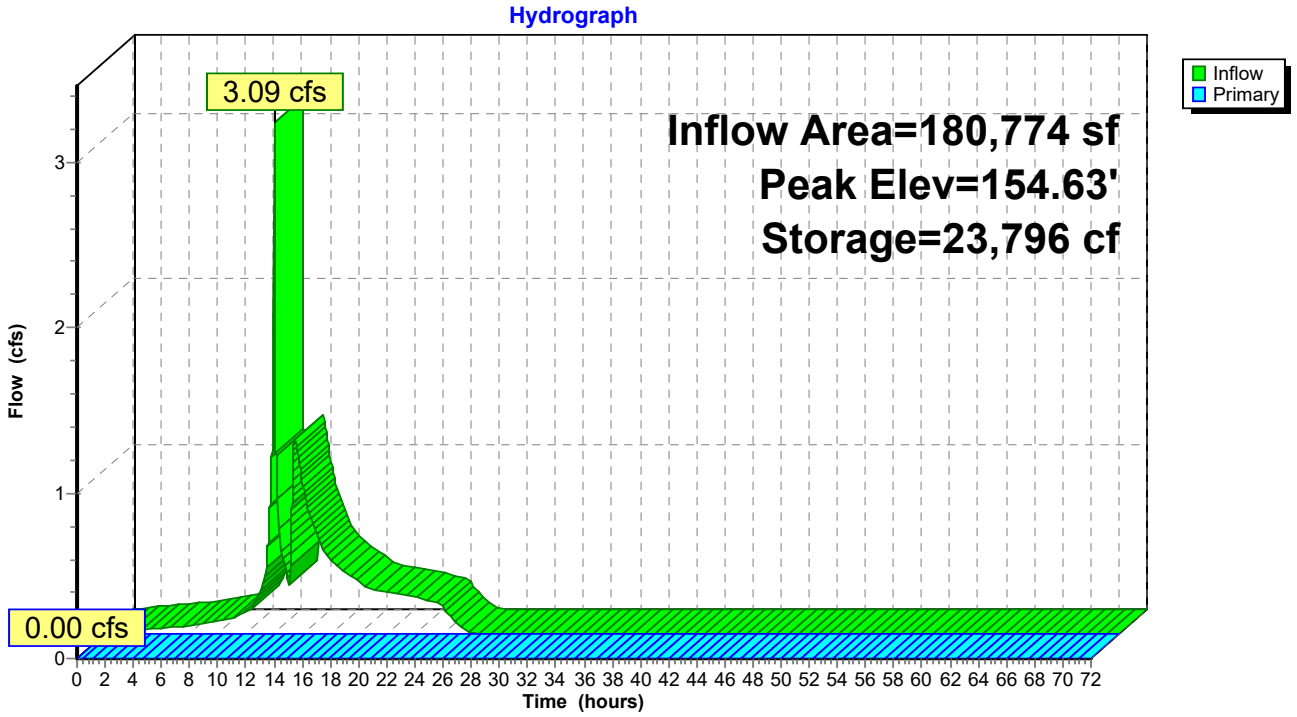
Volume	Invert	Avail.Storage	Storage Description
#1	152.40'	98,072 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
152.40	8,570	0	0
152.90	9,506	4,519	4,519
153.40	10,459	4,991	9,510
153.90	11,430	5,472	14,983
154.40	12,419	5,962	20,945
154.90	13,426	6,461	27,406
155.40	14,449	6,969	34,375
155.90	15,490	7,485	41,860
156.40	16,547	8,009	49,869
156.90	17,620	8,542	58,411
157.40	18,711	9,083	67,493
157.90	19,818	9,632	77,126
158.40	20,943	10,190	87,316
158.90	22,081	10,756	98,072

Device	Routing	Invert	Outlet Devices
#1	Primary	158.80'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.40' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 52P: Basin 4 Infiltration



Summary for Pond 60P: Basin 3 Bioretention

[81] Warning: Exceeded Pond 38P by 0.24' @ 37.90 hrs

Inflow Area = 110,642 sf, 4.41% Impervious, Inflow Depth = 1.35" for 10-year_current event
Inflow = 1.65 cfs @ 12.62 hrs, Volume= 12,426 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 145.74' @ 37.79 hrs Surf.Area= 5,660 sf Storage= 12,425 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

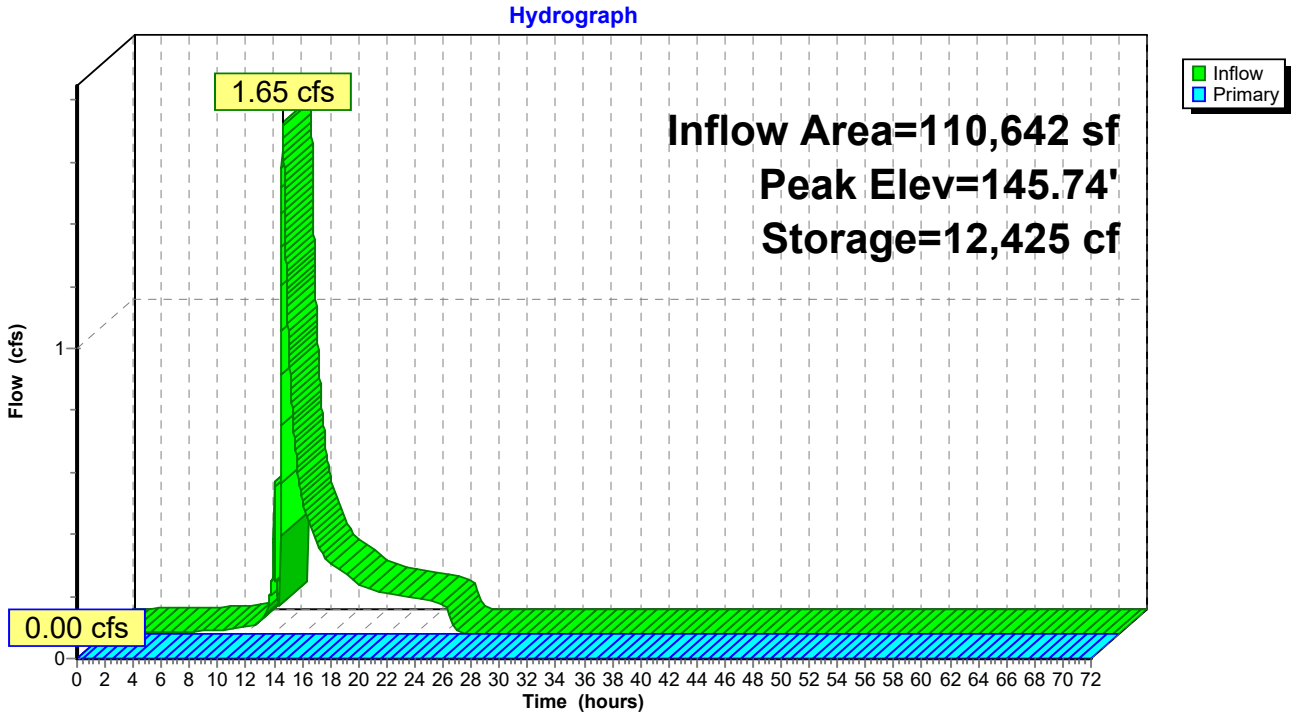
Volume	Invert	Avail.Storage	Storage Description
#1	143.00'	27,552 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.00	3,477	0	0
143.50	3,844	1,830	1,830
144.00	4,224	2,017	3,847
144.50	4,619	2,211	6,058
145.00	5,028	2,412	8,470
145.50	5,450	2,620	11,089
146.00	5,887	2,834	13,924
146.50	6,339	3,057	16,980
147.00	6,804	3,286	20,266
147.50	7,283	3,522	23,788
148.00	7,776	3,765	27,552

Device	Routing	Invert	Outlet Devices
#1	Primary	146.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Device 1	143.00'	**18.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 143.00' / 142.00' S= 0.0227 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.00' (Free Discharge)
↑**1=Orifice/Grate** (Controls 0.00 cfs)
↑**2=Culvert** (Controls 0.00 cfs)

Pond 60P: Basin 3 Bioretention



Summary for Pond 61P: Basin 3 Infiltration

Inflow Area = 126,803 sf, 16.59% Impervious, Inflow Depth = 0.65" for 10-year_current event
Inflow = 2.06 cfs @ 12.09 hrs, Volume= 6,832 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 142.62' @ 24.01 hrs Surf.Area= 11,480 sf Storage= 6,831 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

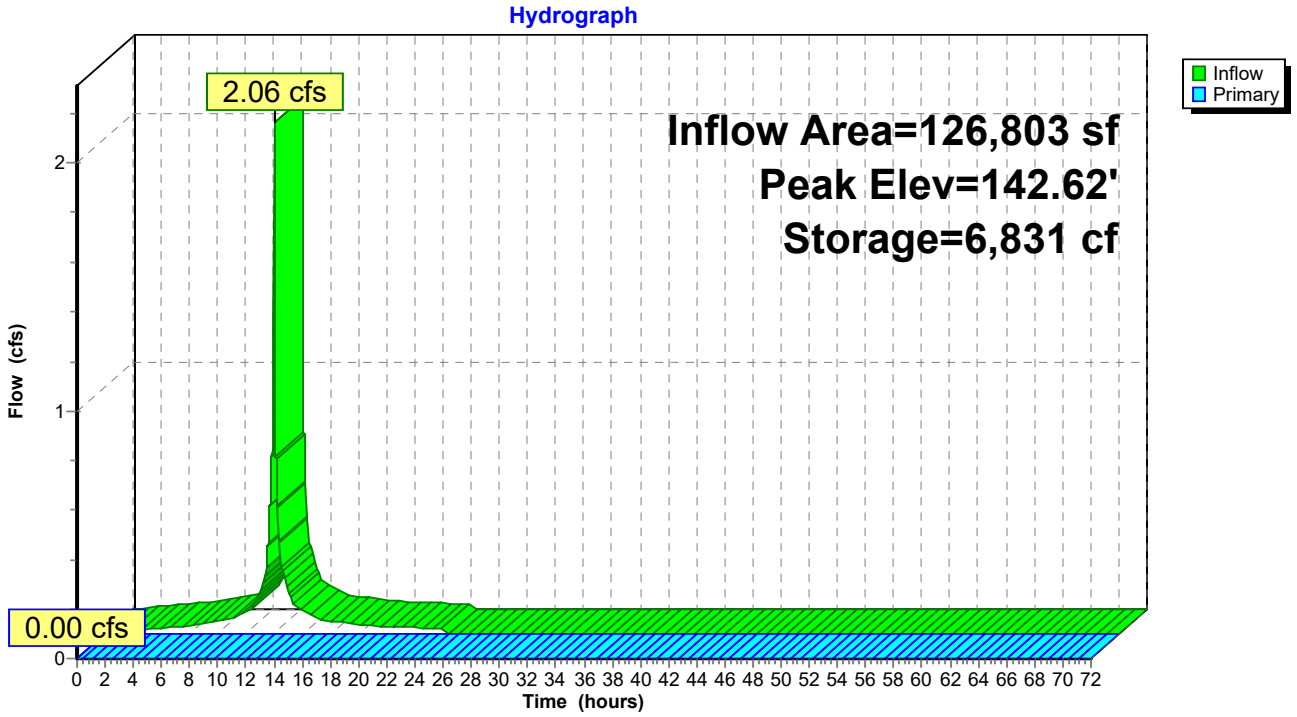
Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	66,946 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
142.00	10,684	0	0
142.30	11,069	3,263	3,263
142.80	11,719	5,697	8,960
143.30	12,382	6,025	14,985
143.80	13,060	6,361	21,346
144.30	13,752	6,703	28,049
144.80	14,458	7,053	35,101
145.30	15,177	7,409	42,510
145.80	15,912	7,772	50,282
146.30	16,660	8,143	58,425
146.80	17,422	8,521	66,946

Device	Routing	Invert	Outlet Devices
#1	Primary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 61P: Basin 3 Infiltration



Summary for Pond 65P: Basin 2B Forebay

Inflow Area = 383,157 sf, 7.33% Impervious, Inflow Depth = 0.62" for 10-year_current event
Inflow = 1.33 cfs @ 12.85 hrs, Volume= 19,769 cf
Outflow = 1.32 cfs @ 12.90 hrs, Volume= 15,706 cf, Atten= 1%, Lag= 2.5 min
Primary = 1.32 cfs @ 12.90 hrs, Volume= 15,706 cf
Routed to Pond 66P : Basin 2B Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.62' @ 12.90 hrs Surf.Area= 2,475 sf Storage= 4,360 cf

Plug-Flow detention time= 191.1 min calculated for 15,706 cf (79% of inflow)
Center-of-Mass det. time= 86.2 min (1,000.3 - 914.2)

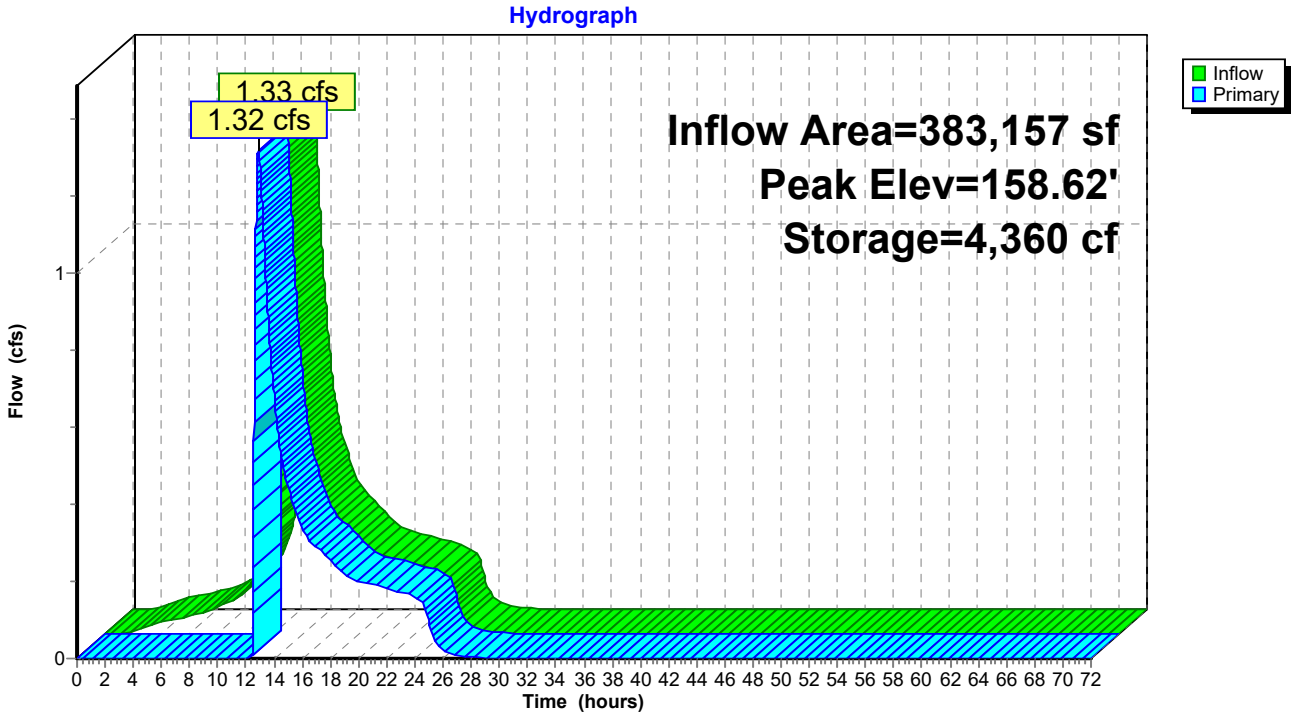
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	8,105 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	928	0	0
156.40	1,136	413	413
156.90	1,406	636	1,048
157.40	1,694	775	1,823
157.90	2,000	924	2,747
158.40	2,324	1,081	3,828
158.50	2,391	236	4,064
158.90	2,666	1,011	5,075
159.40	3,026	1,423	6,498
159.90	3,404	1,608	8,105

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf
#3	Primary	159.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=1.31 cfs @ 12.90 hrs HW=158.62' (Free Discharge)
- **2=Culvert** (Passes 1.31 cfs of 15.21 cfs potential flow)
  - **1=Orifice/Grate** (Weir Controls 1.31 cfs @ 1.14 fps)
- **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 65P: Basin 2B Forebay



Summary for Pond 66P: Basin 2B Infiltration Basin

Inflow Area = 435,255 sf, 18.42% Impervious, Inflow Depth = 1.04" for 10-year_current event
Inflow = 6.66 cfs @ 12.09 hrs, Volume= 37,729 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 152.12' @ 72.00 hrs Surf.Area= 35,228 sf Storage= 37,728 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

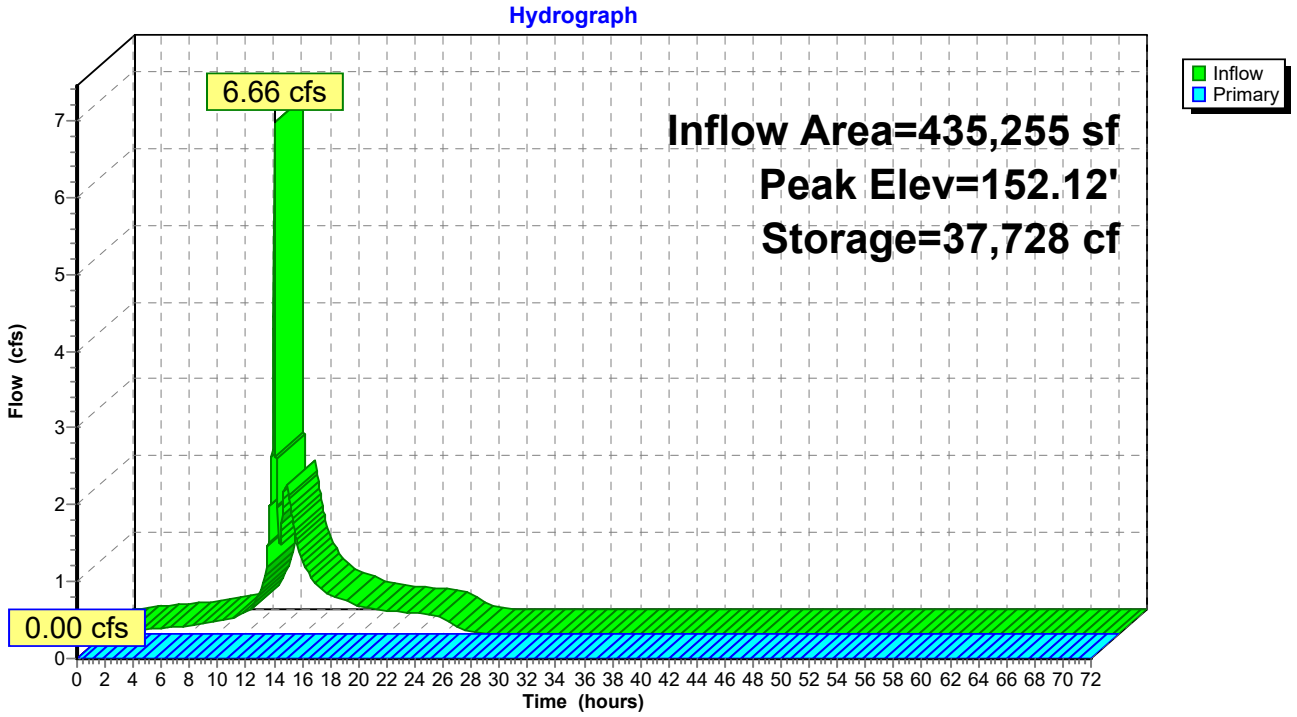
Volume	Invert	Avail.Storage	Storage Description
#1	151.00'	213,861 cf	**Basin 2B Infiltration Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
151.00	32,211	0	0
151.40	33,314	13,105	13,105
151.90	34,642	16,989	30,094
152.40	35,983	17,656	47,750
152.90	37,338	18,330	66,081
153.40	38,708	19,012	85,092
153.90	40,091	19,700	104,792
154.40	41,489	20,395	125,187
154.90	42,901	21,098	146,284
155.40	44,326	21,807	168,091
155.90	45,767	22,523	190,614
156.40	47,221	23,247	213,861

Device	Routing	Invert	Outlet Devices
#1	Primary	155.70'	**30.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=151.00' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 66P: Basin 2B Infiltration Basin



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 23S: Basin 1B Runoff Area=2.391 ac 91.22% Impervious Runoff Depth=8.40"
Flow Length=373' Tc=3.1 min CN=WQ Runoff=21.47 cfs 72,890 cf

Subcatchment 24S: Basin 2A West Runoff Area=1.263 ac 69.91% Impervious Runoff Depth=6.84"
Flow Length=246' Tc=2.2 min CN=WQ Runoff=9.38 cfs 31,370 cf

Subcatchment 25S: Basin 2A East Runoff Area=1.175 ac 71.06% Impervious Runoff Depth=6.93"
Flow Length=370' Tc=3.4 min CN=WQ Runoff=8.66 cfs 29,542 cf

Subcatchment 29S: Basin 2B West Runoff Area=4.192 ac 6.25% Impervious Runoff Depth=2.19"
Flow Length=525' Slope=0.0307 '/' Tc=17.5 min CN=WQ Runoff=5.91 cfs 33,371 cf

Subcatchment 30S: Basin 1A Central Runoff Area=5.749 ac 6.24% Impervious Runoff Depth=2.19"
Flow Length=512' Tc=17.7 min CN=WQ Runoff=8.08 cfs 45,757 cf

Subcatchment 31S: Basin 2B East Runoff Area=195,980 sf 6.17% Impervious Runoff Depth=2.19"
Flow Length=489' Slope=0.0301 '/' Tc=17.1 min CN=WQ Runoff=6.40 cfs 35,715 cf

Subcatchment 32S: undeveloped run on to Runoff Area=3,384 sf 0.00% Impervious Runoff Depth=3.69"
Tc=0.0 min CN=55 Runoff=0.40 cfs 1,041 cf

Subcatchment 33S: undeveloped run on to Runoff Area=3,576 sf 0.00% Impervious Runoff Depth=3.69"
Tc=0.0 min CN=55 Runoff=0.42 cfs 1,100 cf

Subcatchment 37S: Basin 3 Runoff Area=2.428 ac 0.00% Impervious Runoff Depth=4.62"
Flow Length=359' Tc=15.0 min CN=WQ Runoff=9.40 cfs 40,709 cf

Subcatchment 39S: Basin 1A East Runoff Area=182,579 sf 6.17% Impervious Runoff Depth=2.19"
Flow Length=413' Tc=16.1 min CN=WQ Runoff=6.13 cfs 33,273 cf

Subcatchment 40S: Basin 1A West Runoff Area=1.696 ac 6.25% Impervious Runoff Depth=2.19"
Flow Length=256' Slope=0.0267 '/' Tc=14.6 min CN=WQ Runoff=2.61 cfs 13,501 cf

Subcatchment 41S: Basin 4 East Runoff Area=0.868 ac 57.37% Impervious Runoff Depth=5.93"
Flow Length=329' Tc=3.2 min CN=WQ Runoff=5.52 cfs 18,673 cf

Subcatchment 42S: Basin 4 West Runoff Area=1.605 ac 65.73% Impervious Runoff Depth=6.54"
Flow Length=255' Slope=0.0284 '/' Tc=1.8 min CN=WQ Runoff=11.46 cfs 38,085 cf

Subcatchment 46S: Direct Rainfall Basin Runoff Area=0.311 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=3.03 cfs 10,205 cf

Subcatchment 47S: Direct Rainfall Basin Runoff Area=1.128 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=11.00 cfs 37,014 cf

Subcatchment 48S: Direct Rainfall Basin Runoff Area=0.191 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=1.86 cfs 6,267 cf

Subcatchment 49S: Direct Rainfall Basin Runoff Area=1.208 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=11.78 cfs 39,639 cf

Subcatchment 50S: Direct Rainfall Basin Runoff Area=0.690 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=6.73 cfs 22,641 cf

Subcatchment 52S: Direct Rainfall Basin Runoff Area=0.075 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=0.73 cfs 2,461 cf

Subcatchment 54S: Direct Rainfall Basin Runoff Area=8,189 sf 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=1.83 cfs 6,169 cf

Subcatchment 55S: Direct Rainfall Basin 3 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=0.22 cfs 755 cf

Subcatchment 56S: Direct Rainfall Basin Runoff Area=0.153 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=1.49 cfs 5,020 cf

Subcatchment 57S: Direct Rainfall Basin 4 Runoff Area=0.119 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=1.16 cfs 3,905 cf

Subcatchment 58S: Direct forest Runoff Area=0.714 ac 0.00% Impervious Runoff Depth=3.69"
Flow Length=234' Tc=40.9 min CN=55 Runoff=1.36 cfs 9,569 cf

Subcatchment 59S: Direct Rainfall Basin 4 Runoff Area=0.553 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=5.39 cfs 18,146 cf

Subcatchment 62S: Direct Rainfall Basin 3 Runoff Area=0.371 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=3.62 cfs 12,174 cf

Subcatchment 65S: Direct Rainfall Basin 3 Runoff Area=0.089 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=0.87 cfs 2,920 cf

Subcatchment 69S: Direct Rainfall Basin Runoff Area=0.105 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=1.02 cfs 3,445 cf

Subcatchment 70S: Direct Rainfall Basin Runoff Area=1.196 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=11.66 cfs 39,245 cf

Subcatchment 71S: Direct Rainfall to Runoff Area=0.106 ac 100.00% Impervious Runoff Depth=9.04"
Tc=0.0 min CN=98 Runoff=1.03 cfs 3,478 cf

Subcatchment 74S: Direct forest runoff to Runoff Area=0.185 ac 0.00% Impervious Runoff Depth=3.69"
Flow Length=152' Tc=31.9 min CN=55 Runoff=0.40 cfs 2,479 cf

Reach 29R: DA1A East Swale Avg. Flow Depth=0.56' Max Vel=0.68 fps Inflow=6.13 cfs 33,273 cf
n=0.080 L=835.0' S=0.0073 '/' Capacity=113.94 cfs Outflow=3.77 cfs 33,273 cf

Reach 30R: DA1A West Swale Avg. Flow Depth=0.73' Max Vel=0.59 fps Inflow=8.24 cfs 59,258 cf
n=0.080 L=650.0' S=0.0038 '/' Capacity=82.67 cfs Outflow=5.57 cfs 59,258 cf

Reach 31R: DA2B East Swale Avg. Flow Depth=0.57' Max Vel=0.73 fps Inflow=6.40 cfs 35,715 cf
n=0.080 L=737.0' S=0.0083 '/' Capacity=121.27 cfs Outflow=4.36 cfs 35,715 cf

Reach 33R: DA2B West Swale Avg. Flow Depth=0.68' Max Vel=0.56 fps Inflow=5.91 cfs 33,371 cf
n=0.080 L=384.0' S=0.0039 '/' Capacity=83.31 cfs Outflow=4.61 cfs 33,371 cf

Reach 34R: DA4 West Swale Avg. Flow Depth=0.83' Max Vel=0.67 fps Inflow=11.46 cfs 38,085 cf
n=0.080 L=357.0' S=0.0042 '/' Capacity=86.41 cfs Outflow=8.23 cfs 38,085 cf

Reach 35R: DA2A West Swale Avg. Flow Depth=0.70' Max Vel=0.69 fps Inflow=9.38 cfs 31,370 cf
n=0.080 L=478.0' S=0.0056 '/' Capacity=100.19 cfs Outflow=6.12 cfs 31,370 cf

Reach 36R: DA2A East Swale Avg. Flow Depth=0.64' Max Vel=1.13 fps Inflow=8.66 cfs 29,542 cf
n=0.080 L=146.0' S=0.0171 '/' Capacity=174.43 cfs Outflow=8.22 cfs 29,542 cf

Reach 37R: DA1B Swale Avg. Flow Depth=1.03' Max Vel=0.86 fps Inflow=21.47 cfs 72,890 cf
n=0.080 L=383.0' S=0.0052 '/' Capacity=96.33 cfs Outflow=16.39 cfs 72,890 cf

Reach 38R: DA3 Swale Avg. Flow Depth=1.02' Max Vel=2.96 fps Inflow=9.40 cfs 40,709 cf
n=0.049 L=418.0' S=0.0251 '/' Capacity=55.69 cfs Outflow=9.17 cfs 40,709 cf

Reach 39R: DA 1A Central Swale A Avg. Flow Depth=0.44' Max Vel=0.48 fps Inflow=2.61 cfs 13,501 cf
n=0.080 L=498.0' S=0.0050 '/' Capacity=94.45 cfs Outflow=1.67 cfs 13,501 cf

Reach 41R: DA 1A Central Swale B Avg. Flow Depth=0.62' Max Vel=1.46 fps Inflow=1.67 cfs 13,501 cf
n=0.080 L=188.0' S=0.0319 '/' Capacity=38.45 cfs Outflow=1.66 cfs 13,501 cf

Reach 42R: DA4 East Swale Avg. Flow Depth=0.56' Max Vel=0.91 fps Inflow=5.52 cfs 18,673 cf
n=0.080 L=114.0' S=0.0132 '/' Capacity=152.91 cfs Outflow=5.24 cfs 18,673 cf

Reach 43R: DA4 Roadside swale Avg. Flow Depth=0.62' Max Vel=2.71 fps Inflow=8.23 cfs 38,085 cf
n=0.049 L=103.0' S=0.0243 '/' Capacity=73.85 cfs Outflow=8.17 cfs 38,085 cf

Reach 44R: DA4 Culvert Inflow=8.17 cfs 38,085 cf
Outflow=8.17 cfs 38,085 cf

Reach 45R: DA2B Road Swale Avg. Flow Depth=0.00' Max Vel=0.00 fps
n=0.080 L=296.0' S=0.0287 '/' Capacity=36.47 cfs Outflow=0.00 cfs 0 cf

Pond 15P: Basin 1A Forebay Peak Elev=159.14' Storage=3,848 cf Inflow=9.41 cfs 94,992 cf
Outflow=9.41 cfs 91,755 cf

Pond 18P: Basin 1B Forebay Peak Elev=159.47' Storage=15,122 cf Inflow=16.87 cfs 78,951 cf
Primary=11.07 cfs 68,942 cf Secondary=0.00 cfs 0 cf Outflow=11.07 cfs 68,942 cf

Pond 26P: Basin 2A Forebay Peak Elev=158.35' Storage=10,598 cf Inflow=11.66 cfs 67,081 cf
Primary=8.49 cfs 59,553 cf Secondary=0.54 cfs 281 cf Outflow=9.03 cfs 59,835 cf

Pond 38P: Basin 3 Forebay Peak Elev=146.03' Storage=7,787 cf Inflow=9.22 cfs 41,463 cf
Primary=7.60 cfs 36,005 cf Secondary=0.00 cfs 0 cf Outflow=7.60 cfs 36,005 cf

Pond 39P: Basin 4 Forebay Peak Elev=158.48' Storage=11,250 cf Inflow=10.51 cfs 60,663 cf
Primary=10.14 cfs 51,453 cf Secondary=0.00 cfs 0 cf Outflow=10.14 cfs 51,453 cf

Pond 43P: Basin 1B Bioretention	Peak Elev=158.01' Storage=23,846 cf	Inflow=11.49 cfs 76,309 cf Outflow=11.31 cfs 56,323 cf
Pond 44P: Basin 2A Bioretention	Peak Elev=157.93' Storage=26,402 cf	Inflow=10.92 cfs 69,758 cf Outflow=8.73 cfs 47,074 cf
Pond 45P: Basin 2A Infiltration	Peak Elev=154.07' Storage=84,368 cf	Inflow=11.00 cfs 84,369 cf Outflow=0.00 cfs 0 cf
Pond 46P: Basin 1B Infiltration	Peak Elev=152.13' Storage=78,963 cf	Inflow=12.48 cfs 78,964 cf Outflow=0.00 cfs 0 cf
Pond 48P: Basin 1A Infiltration Basin	Peak Elev=154.83' Storage=131,391 cf	Inflow=13.12 cfs 131,393 cf Outflow=0.00 cfs 0 cf
Pond 51P: Basin 4 Bioretention	Peak Elev=156.99' Storage=17,569 cf	Inflow=11.18 cfs 64,500 cf Outflow=10.44 cfs 49,977 cf
Pond 52P: Basin 4 Infiltration	Peak Elev=157.56' Storage=70,601 cf	Inflow=11.79 cfs 70,602 cf Outflow=0.00 cfs 0 cf
Pond 60P: Basin 3 Bioretention	Peak Elev=146.67' Storage=18,075 cf	Inflow=7.76 cfs 38,926 cf Outflow=2.19 cfs 21,946 cf
Pond 61P: Basin 3 Infiltration	Peak Elev=144.73' Storage=34,119 cf	Inflow=3.62 cfs 34,119 cf Outflow=0.00 cfs 0 cf
Pond 65P: Basin 2B Forebay	Peak Elev=158.93' Storage=5,161 cf	Inflow=8.80 cfs 72,531 cf Outflow=8.76 cfs 68,468 cf
Pond 66P: Basin 2B Infiltration Basin	Peak Elev=153.97' Storage=107,712 cf	Inflow=13.25 cfs 107,712 cf Outflow=0.00 cfs 0 cf

Total Runoff Area = 1,638,827 sf Runoff Volume = 620,560 cf Average Runoff Depth = 4.54"
64.86% Pervious = 1,062,927 sf 35.14% Impervious = 575,900 sf

Summary for Subcatchment 23S: Basin 1B

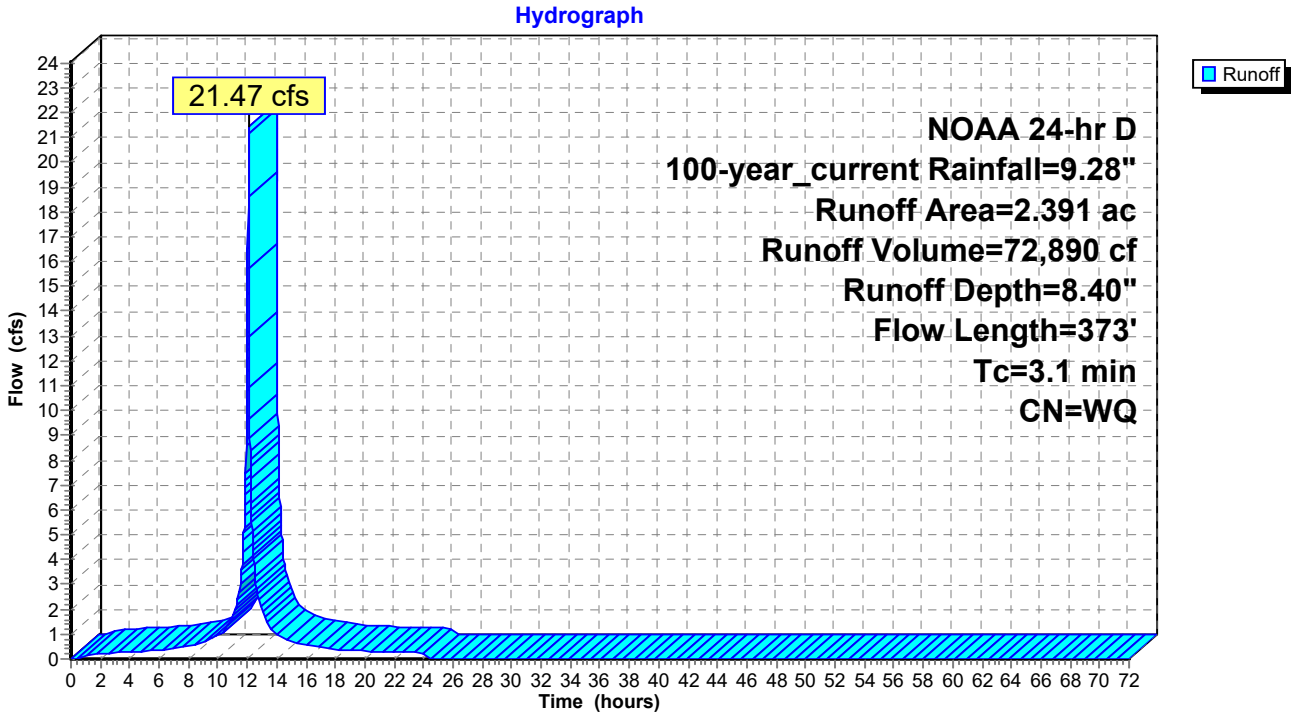
Runoff = 21.47 cfs @ 12.11 hrs, Volume= 72,890 cf, Depth= 8.40"
Routed to Reach 37R : DA1B Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
	0.210	39	>75% Grass cover, Good, HSG A
*	0.084	98	gravel road
*	2.097	98	compost/recycling area
	2.391		Weighted Average
	0.210	39	8.78% Pervious Area
	2.181	98	91.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0282	1.63		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
1.0	195	0.0282	3.41		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.1	78	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.1	373	Total			

Subcatchment 23S: Basin 1B



Summary for Subcatchment 24S: Basin 2A West

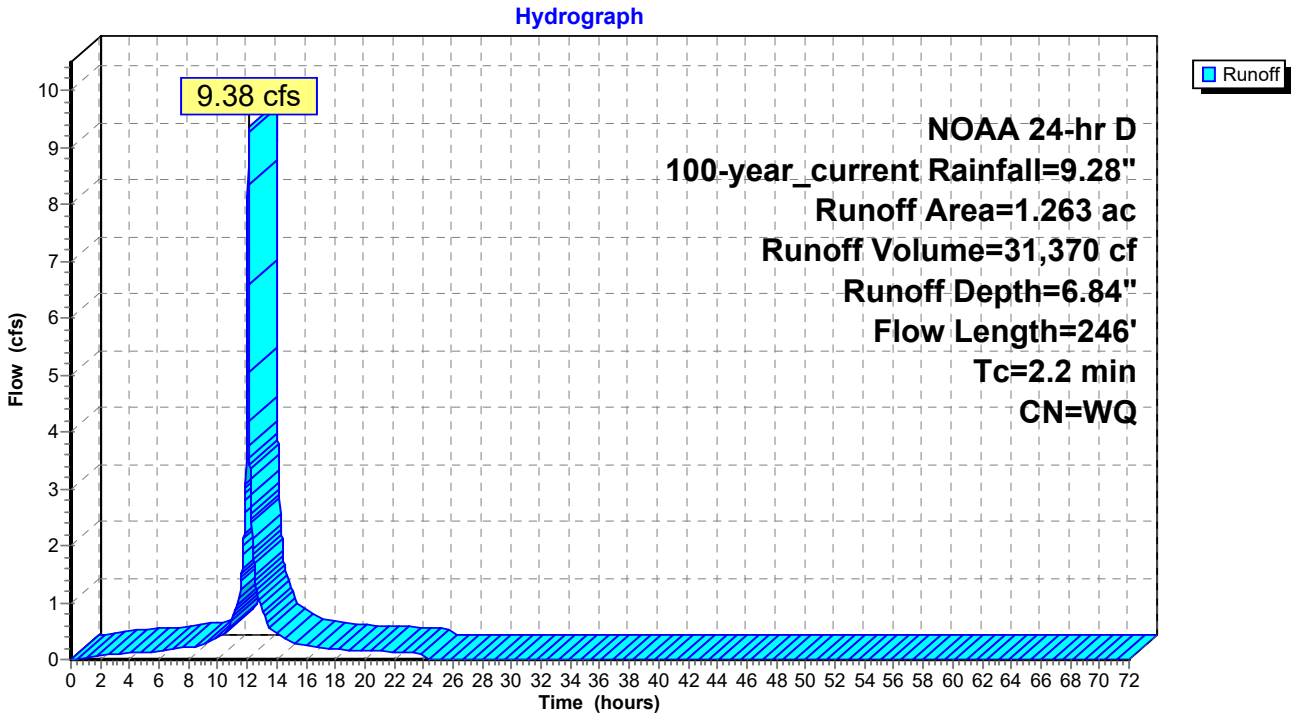
Runoff = 9.38 cfs @ 12.10 hrs, Volume= 31,370 cf, Depth= 6.84"
Routed to Reach 35R : DA2A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.380	39	grass cover
*	0.883	98	compost area
	1.263		Weighted Average
	0.380	39	30.09% Pervious Area
	0.883	98	69.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0303	1.67		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.4	85	0.0303	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.8	61	0.0309	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.2	246	Total			

Subcatchment 24S: Basin 2A West



Summary for Subcatchment 25S: Basin 2A East

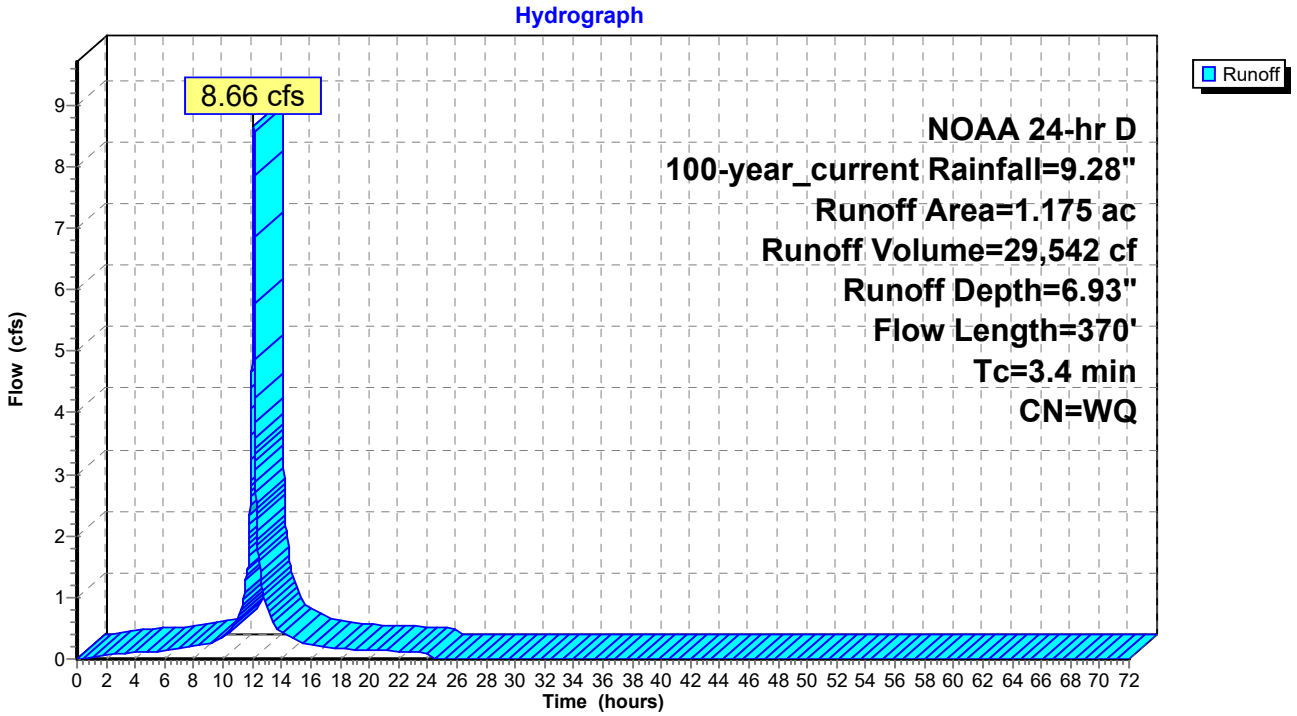
Runoff = 8.66 cfs @ 12.11 hrs, Volume= 29,542 cf, Depth= 6.93"
Routed to Reach 36R : DA2A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.223	98	gravel road
*	0.612	98	compost area
*	0.340	39	grass cover
	1.175		Weighted Average
	0.340	39	28.94% Pervious Area
	0.835	98	71.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0300	1.67		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.6	136	0.0302	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	134	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	370	Total			

Subcatchment 25S: Basin 2A East



Summary for Subcatchment 29S: Basin 2B West

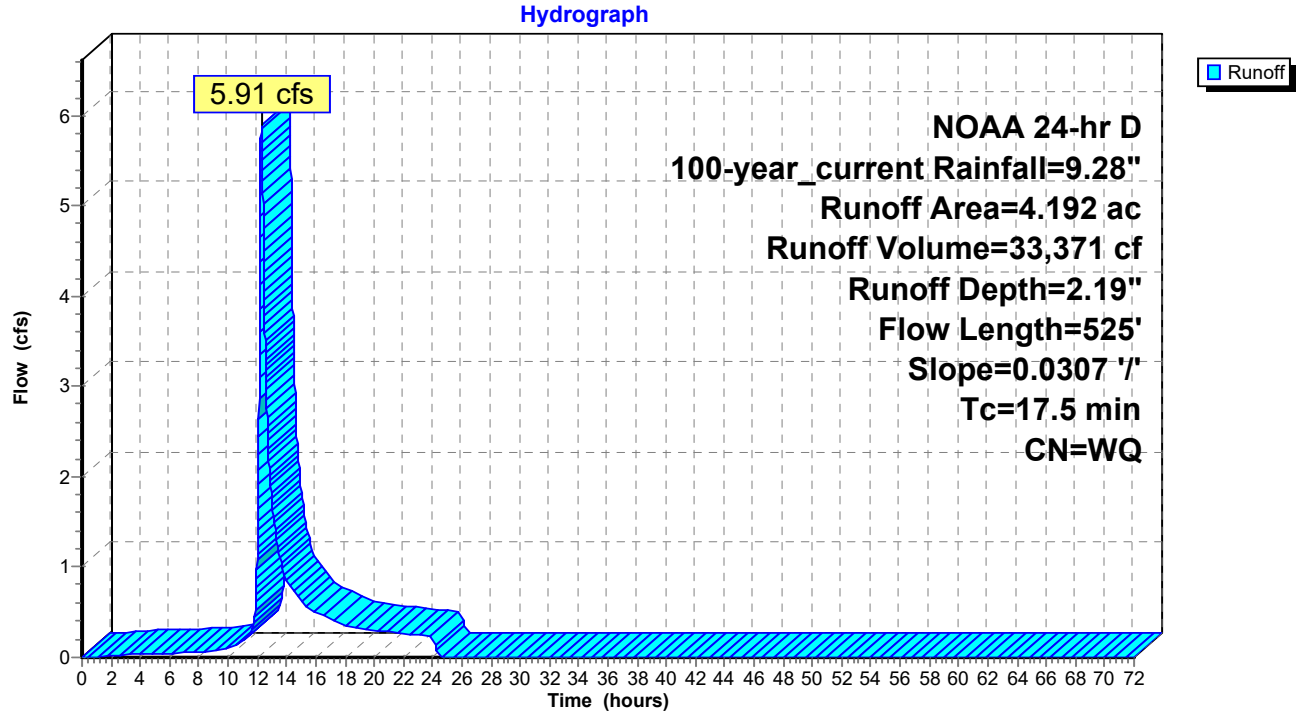
Runoff = 5.91 cfs @ 12.29 hrs, Volume= 33,371 cf, Depth= 2.19"
Routed to Reach 33R : DA2B West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
	3.930	39	>75% Grass cover, Good, HSG A
*	0.262	98	Solar
	4.192		Weighted Average
	3.930	39	93.75% Pervious Area
	0.262	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	100	0.0307	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.8	425	0.0307	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.5	525	Total			

Subcatchment 29S: Basin 2B West



Summary for Subcatchment 30S: Basin 1A Central

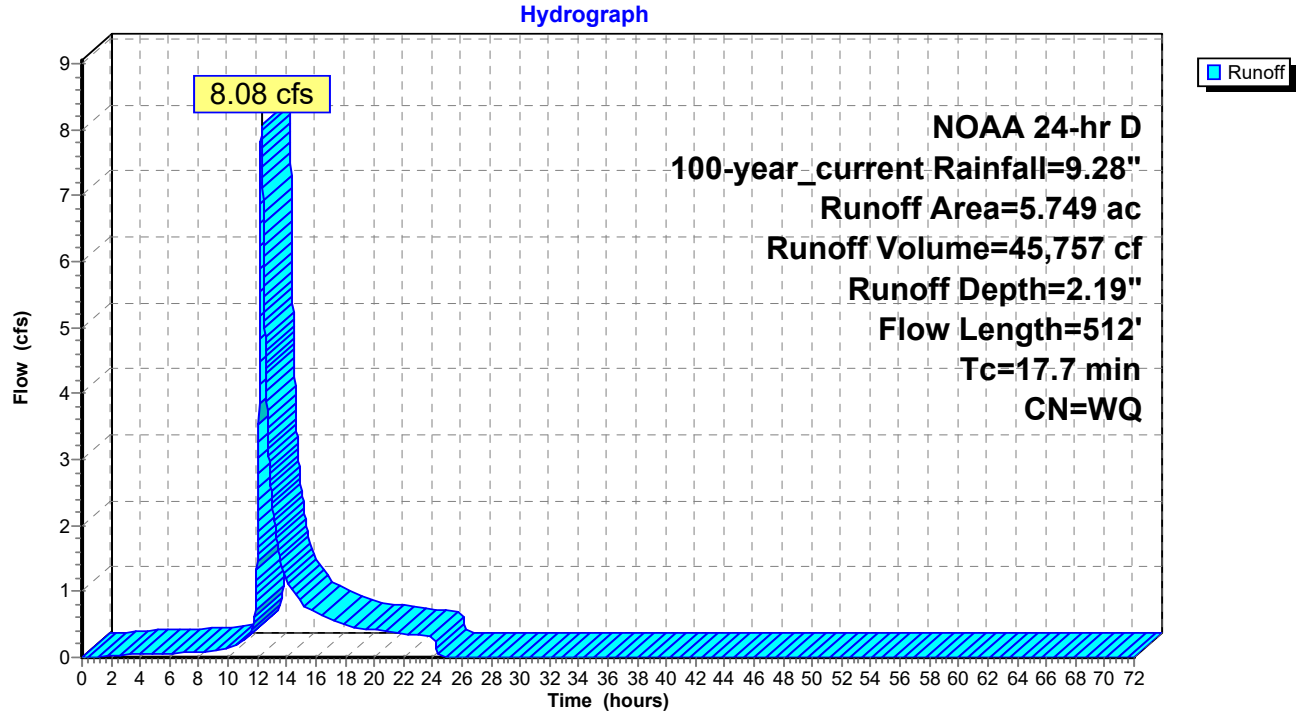
Runoff = 8.08 cfs @ 12.29 hrs, Volume= 45,757 cf, Depth= 2.19"
Routed to Reach 30R : DA1A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.359	98	solar
*	5.390	39	grass
	5.749		Weighted Average
	5.390	39	93.76% Pervious Area
	0.359	98	6.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.9	100	0.0291	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.8	412	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.7	512	Total			

Subcatchment 30S: Basin 1A Central



Summary for Subcatchment 31S: Basin 2B East

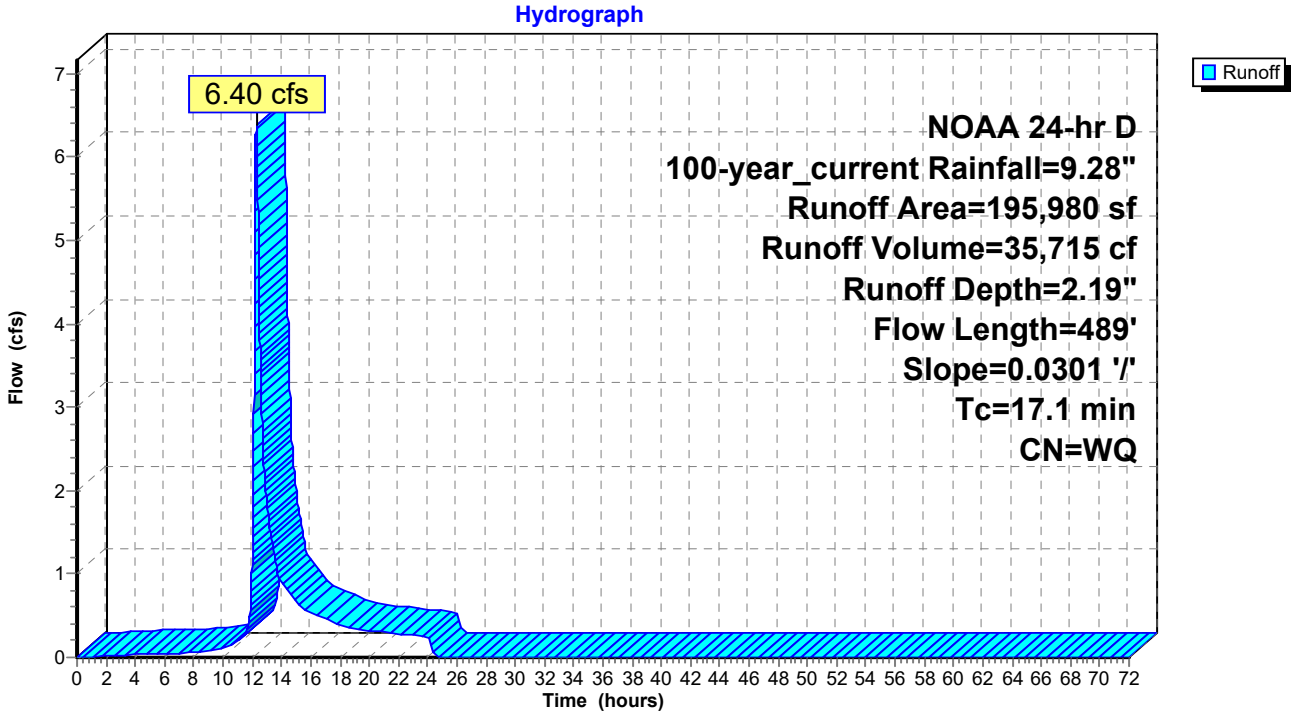
Runoff = 6.40 cfs @ 12.29 hrs, Volume= 35,715 cf, Depth= 2.19"
Routed to Reach 31R : DA2B East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (sf)	CN	Description
	183,896	39	>75% Grass cover, Good, HSG A
*	12,084	98	Solar
	195,980		Weighted Average
	183,896	39	93.83% Pervious Area
	12,084	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	100	0.0301	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.3	389	0.0301	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.1	489	Total			

Subcatchment 31S: Basin 2B East



Summary for Subcatchment 32S: undeveloped run on to forebay

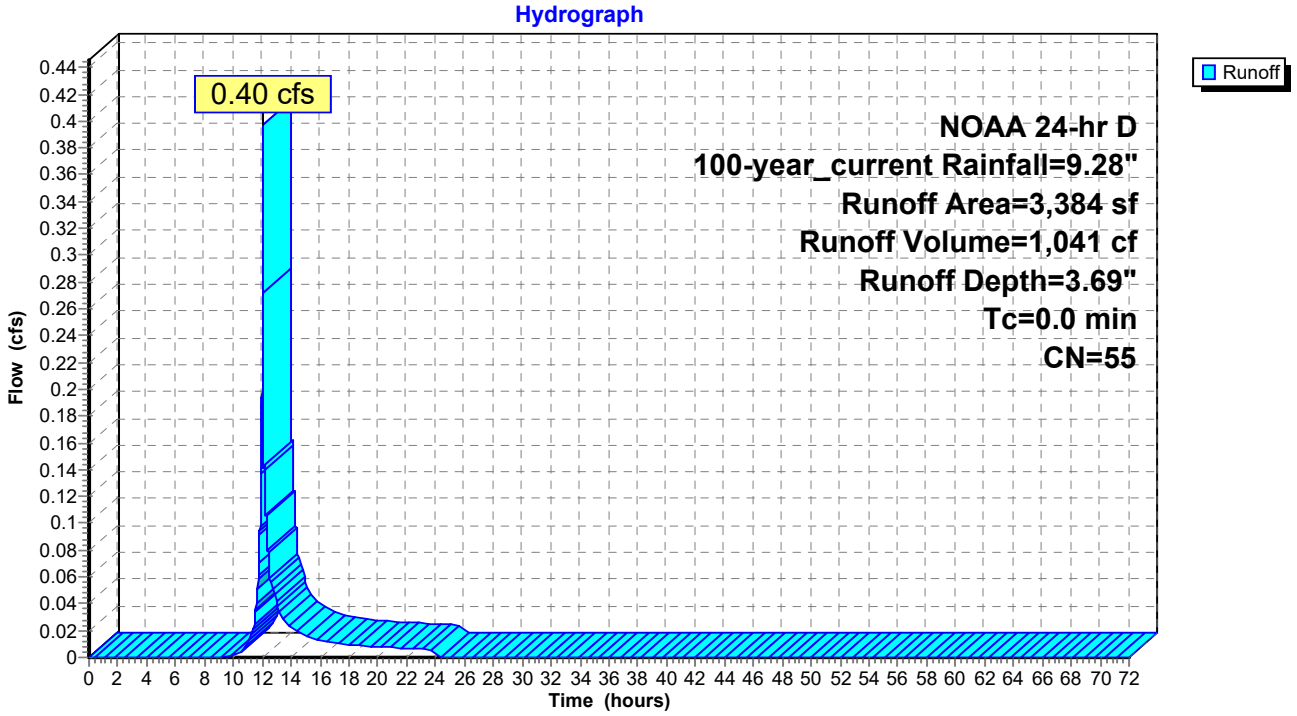
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 1,041 cf, Depth= 3.69"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (sf)	CN	Description
*	3,384	55	
	3,384	55	100.00% Pervious Area

Subcatchment 32S: undeveloped run on to forebay



Summary for Subcatchment 33S: undeveloped run on to bioretention

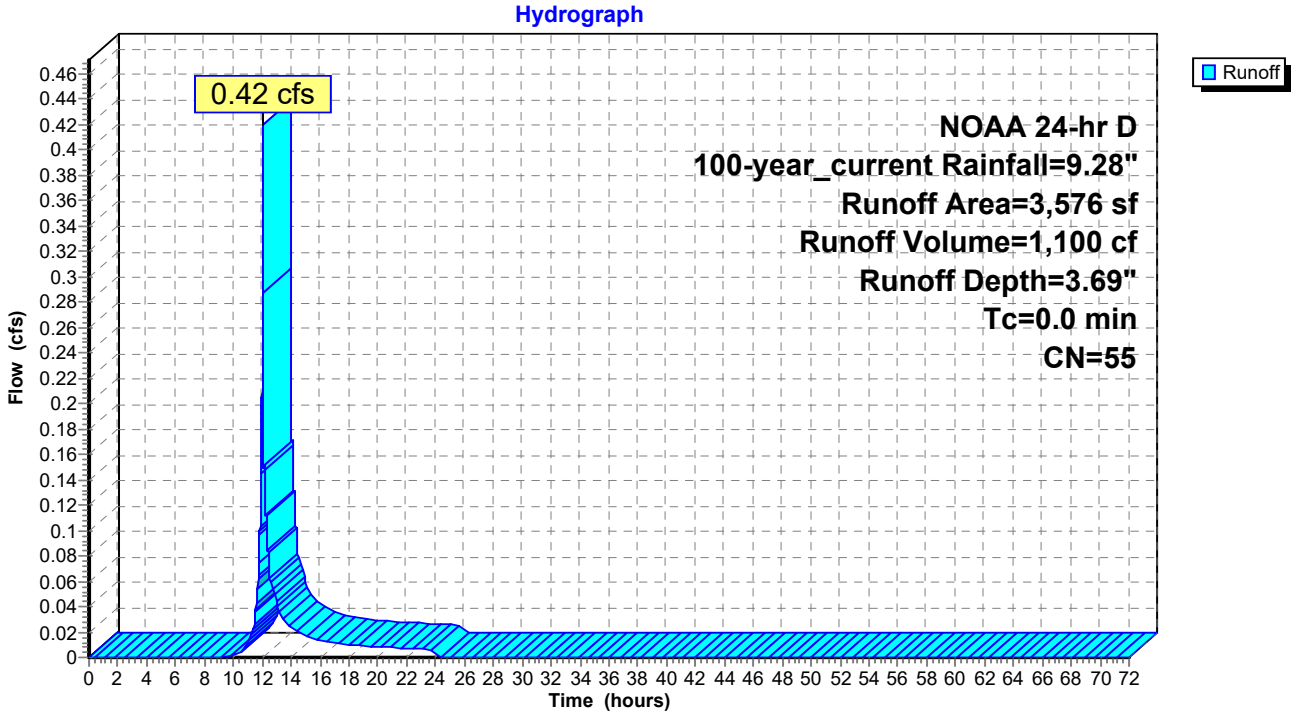
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.42 cfs @ 12.09 hrs, Volume= 1,100 cf, Depth= 3.69"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (sf)	CN	Description
*	3,576	55	
	3,576	55	100.00% Pervious Area

Subcatchment 33S: undeveloped run on to bioretention



Summary for Subcatchment 37S: Basin 3

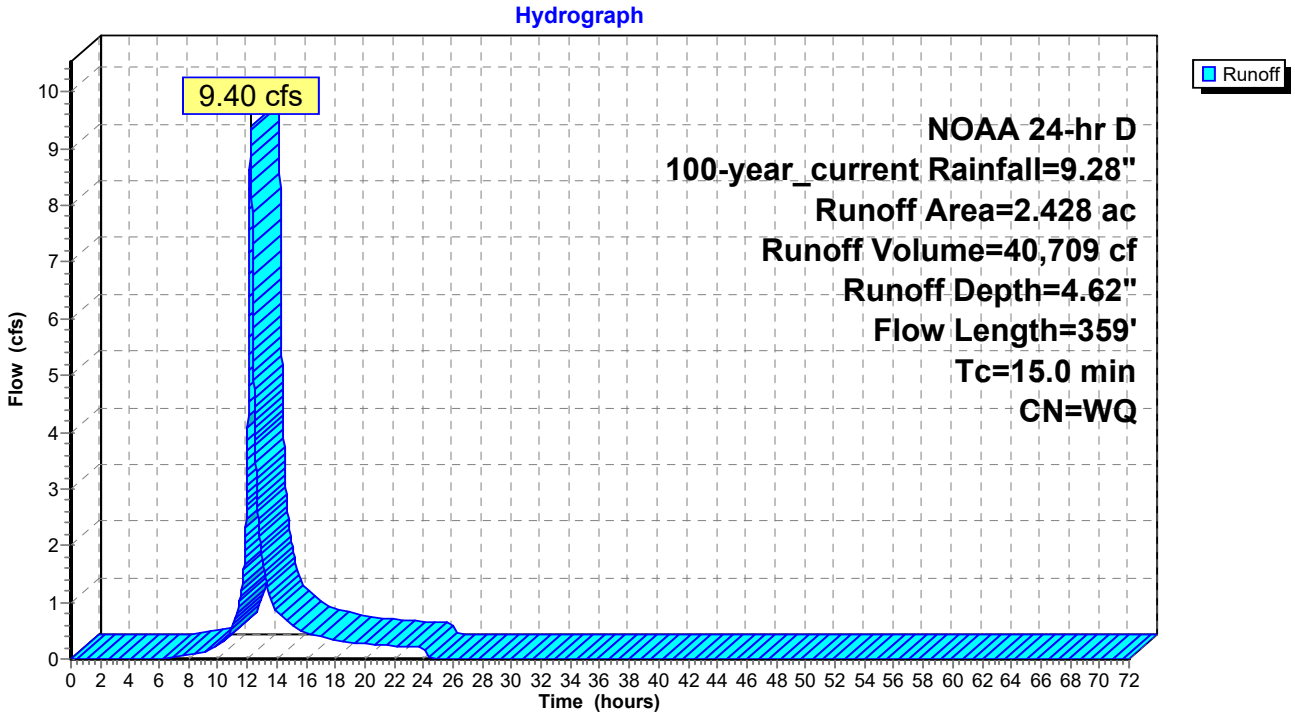
Runoff = 9.40 cfs @ 12.23 hrs, Volume= 40,709 cf, Depth= 4.62"
Routed to Reach 38R : DA3 Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.720	39	grass
*	1.708	72	sand
	2.428		Weighted Average
	2.428	62	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	35	0.5455	0.37		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
8.1	65	0.0321	0.13		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
3.4	107	0.0055	0.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	152	0.0066	1.31		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
15.0	359	Total			

Subcatchment 37S: Basin 3



Summary for Subcatchment 39S: Basin 1A East

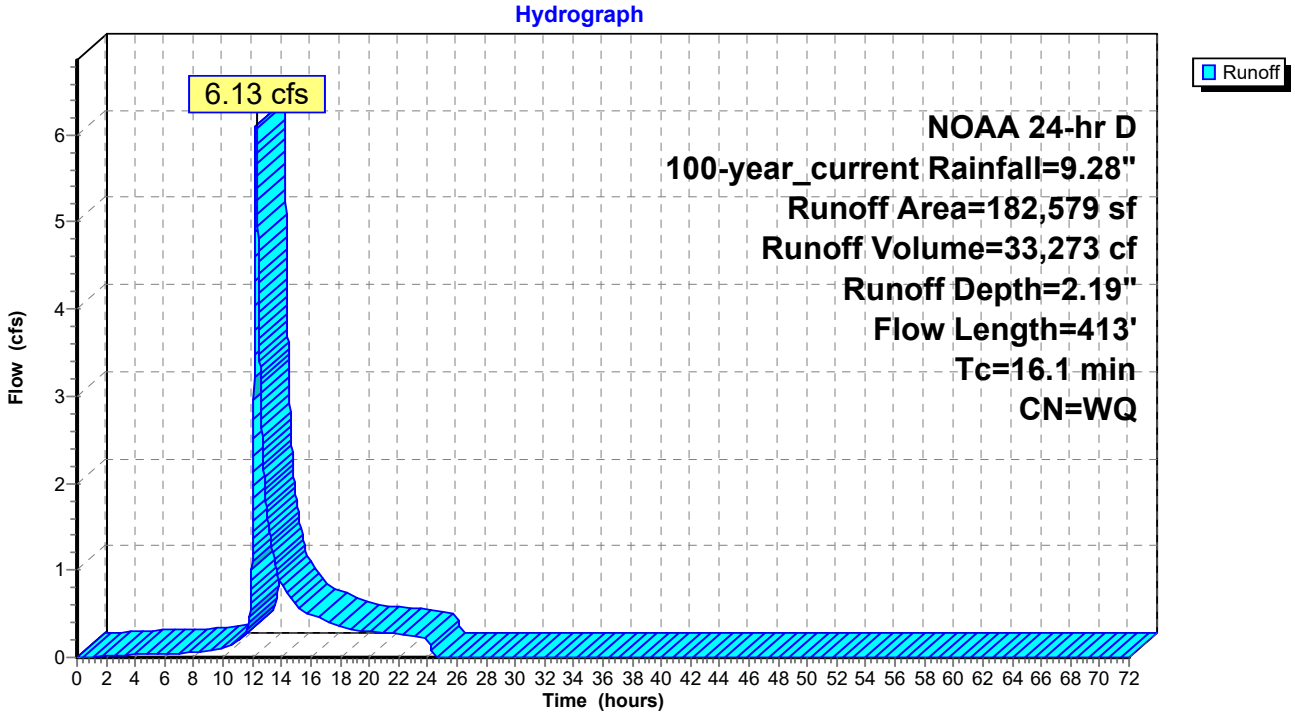
Runoff = 6.13 cfs @ 12.26 hrs, Volume= 33,273 cf, Depth= 2.19"
Routed to Reach 29R : DA1A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (sf)	CN	Description
	171,321	39	>75% Grass cover, Good, HSG A
*	11,258	98	Solar
	182,579		Weighted Average
	171,321	39	93.83% Pervious Area
	11,258	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	100	0.0299	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
4.3	313	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.1	413	Total			

Subcatchment 39S: Basin 1A East



Summary for Subcatchment 40S: Basin 1A West

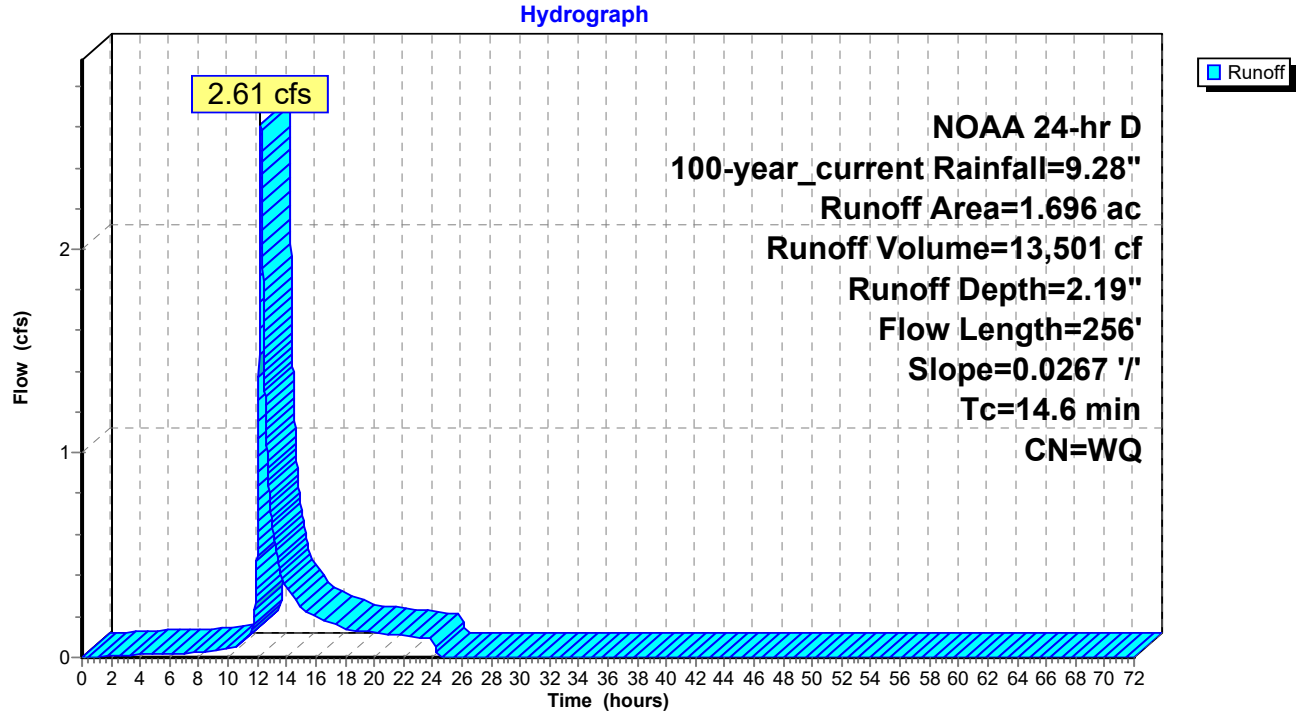
Runoff = 2.61 cfs @ 12.25 hrs, Volume= 13,501 cf, Depth= 2.19"
Routed to Reach 39R : DA 1A Central Swale A

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
	1.590	39	>75% Grass cover, Good, HSG A
*	0.106	98	Solar
	1.696		Weighted Average
	1.590	39	93.75% Pervious Area
	0.106	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.3	100	0.0267	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
2.3	156	0.0267	1.14		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	256	Total			

Subcatchment 40S: Basin 1A West



Summary for Subcatchment 41S: Basin 4 East

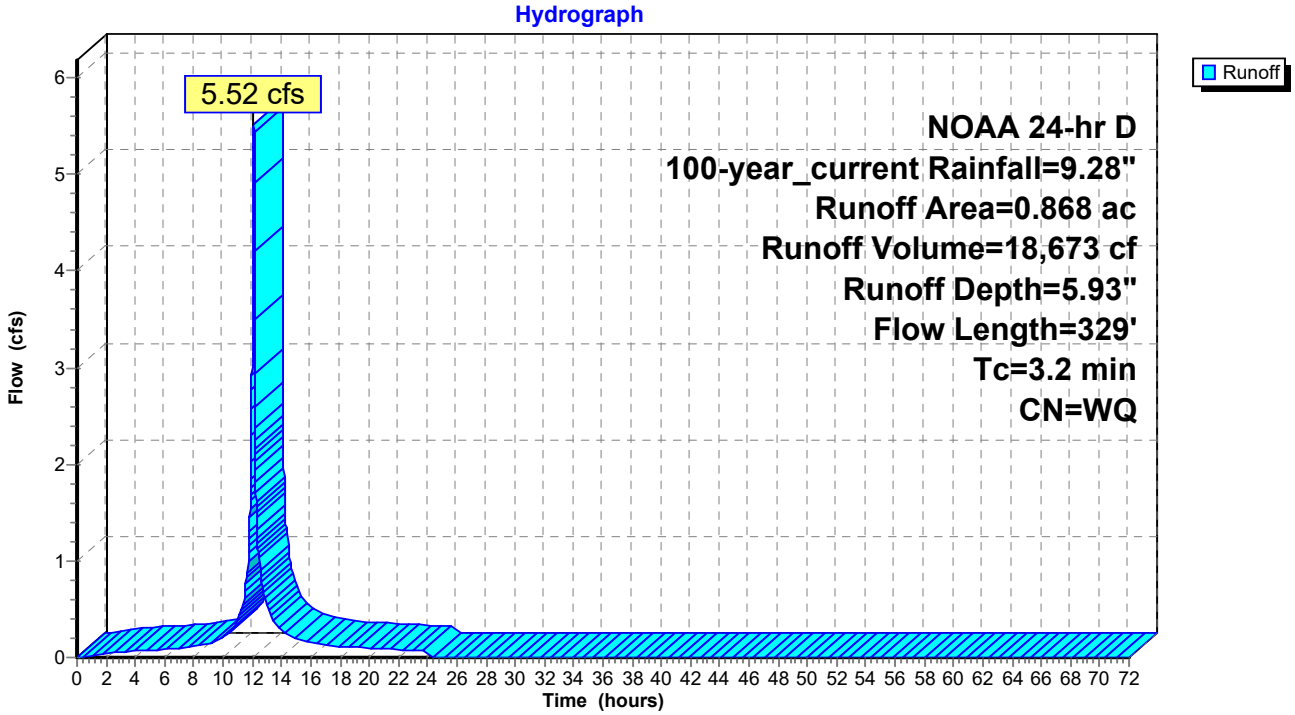
Runoff = 5.52 cfs @ 12.11 hrs, Volume= 18,673 cf, Depth= 5.93"
Routed to Reach 42R : DA4 East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.498	98	salt storage area
*	0.370	39	grass cover
	0.868		Weighted Average
	0.370	39	42.63% Pervious Area
	0.498	98	57.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0296	1.66		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.4	90	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	139	0.0325	1.26		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.2	329	Total			

Subcatchment 41S: Basin 4 East



Summary for Subcatchment 42S: Basin 4 West

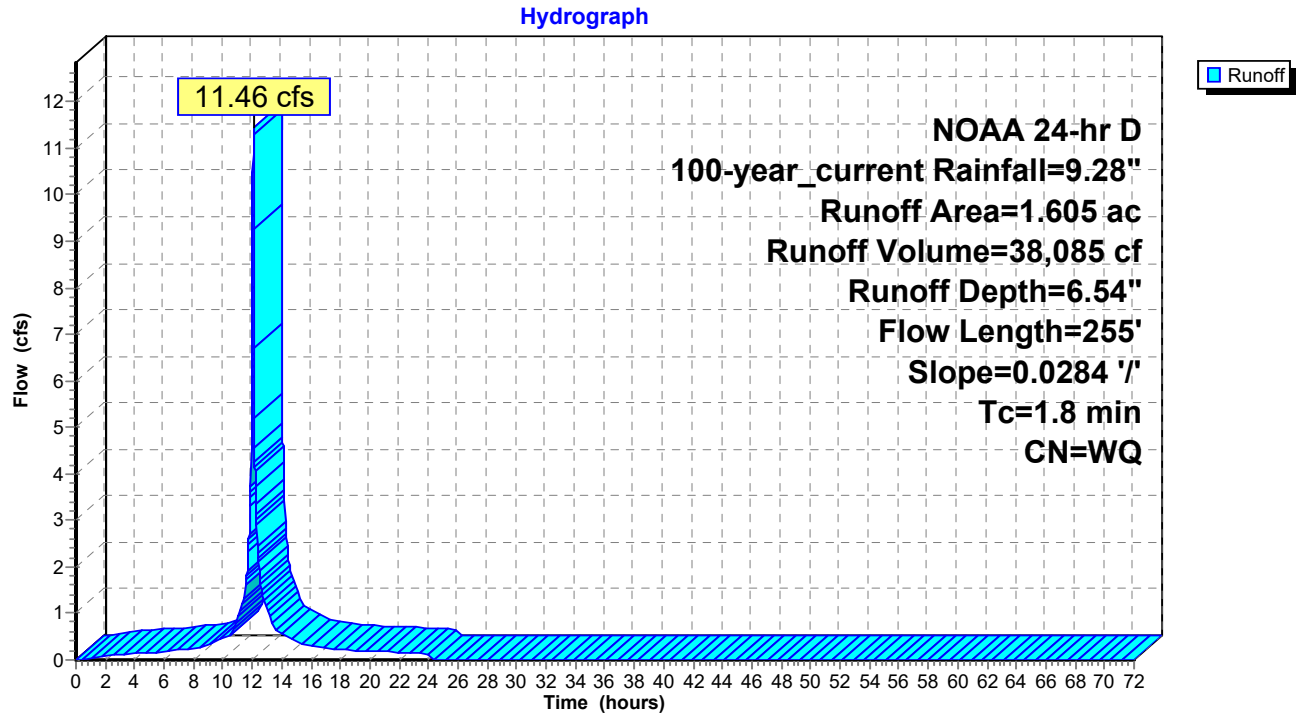
Runoff = 11.46 cfs @ 12.10 hrs, Volume= 38,085 cf, Depth= 6.54"
Routed to Reach 34R : DA4 West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.237	98	gravel road
*	0.818	98	compost/recycling area
*	0.550	39	grass cover
	1.605		Weighted Average
	0.550	39	34.27% Pervious Area
	1.055	98	65.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0284	1.63		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.8	155	0.0284	3.42		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	255	Total			

Subcatchment 42S: Basin 4 West



Summary for Subcatchment 46S: Direct Rainfall Basin 2A Bioretention

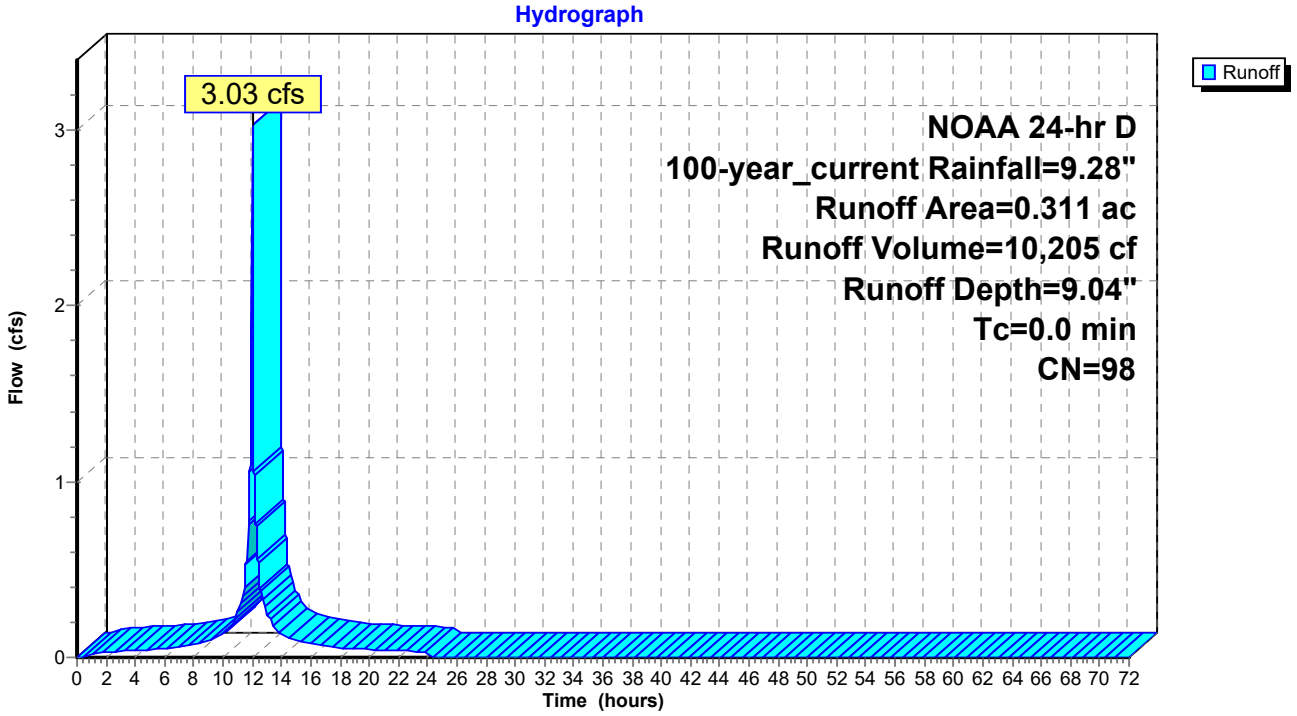
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.03 cfs @ 12.09 hrs, Volume= 10,205 cf, Depth= 9.04"
Routed to Pond 44P : Basin 2A Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.311	98	Direct Rainfall
	0.311	98	100.00% Impervious Area

Subcatchment 46S: Direct Rainfall Basin 2A Bioretention



Summary for Subcatchment 47S: Direct Rainfall Basin 2A Infiltration

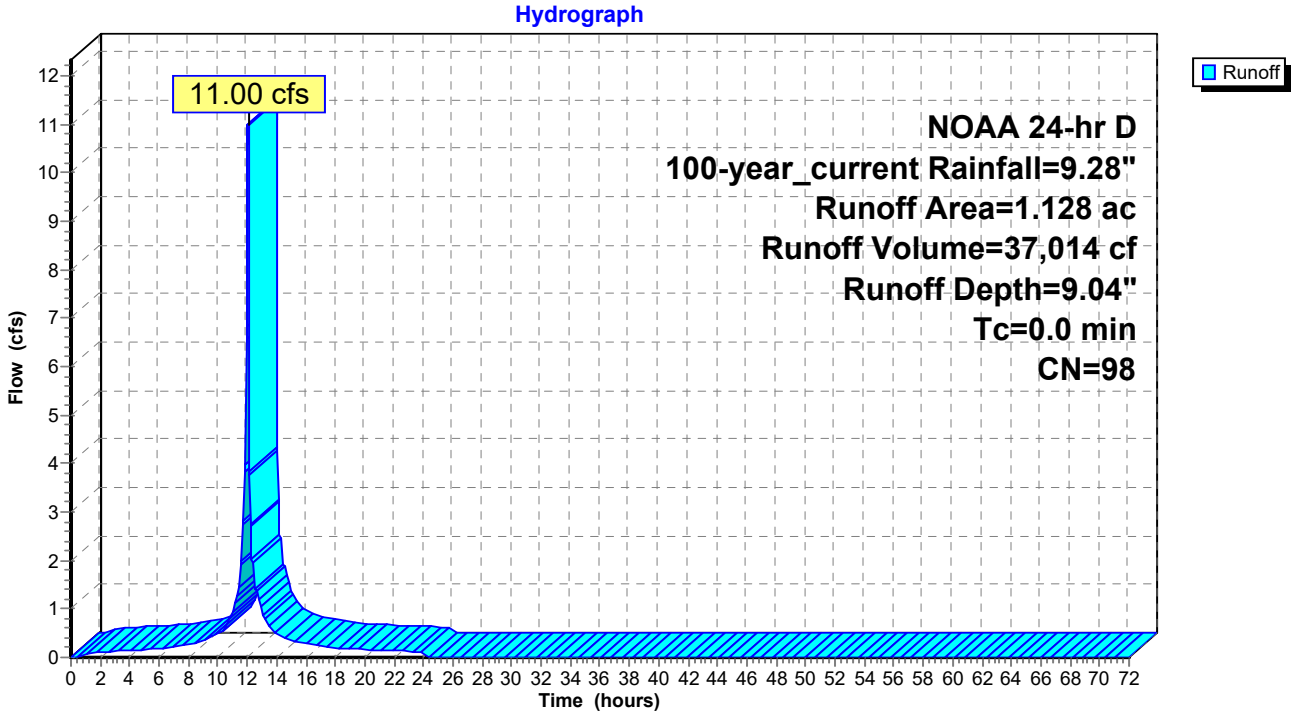
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 11.00 cfs @ 12.09 hrs, Volume= 37,014 cf, Depth= 9.04"
Routed to Pond 45P : Basin 2A Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	1.128	98	Direct Rainfall
	1.128	98	100.00% Impervious Area

Subcatchment 47S: Direct Rainfall Basin 2A Infiltration



Summary for Subcatchment 48S: Direct Rainfall Basin 1B Bioretention

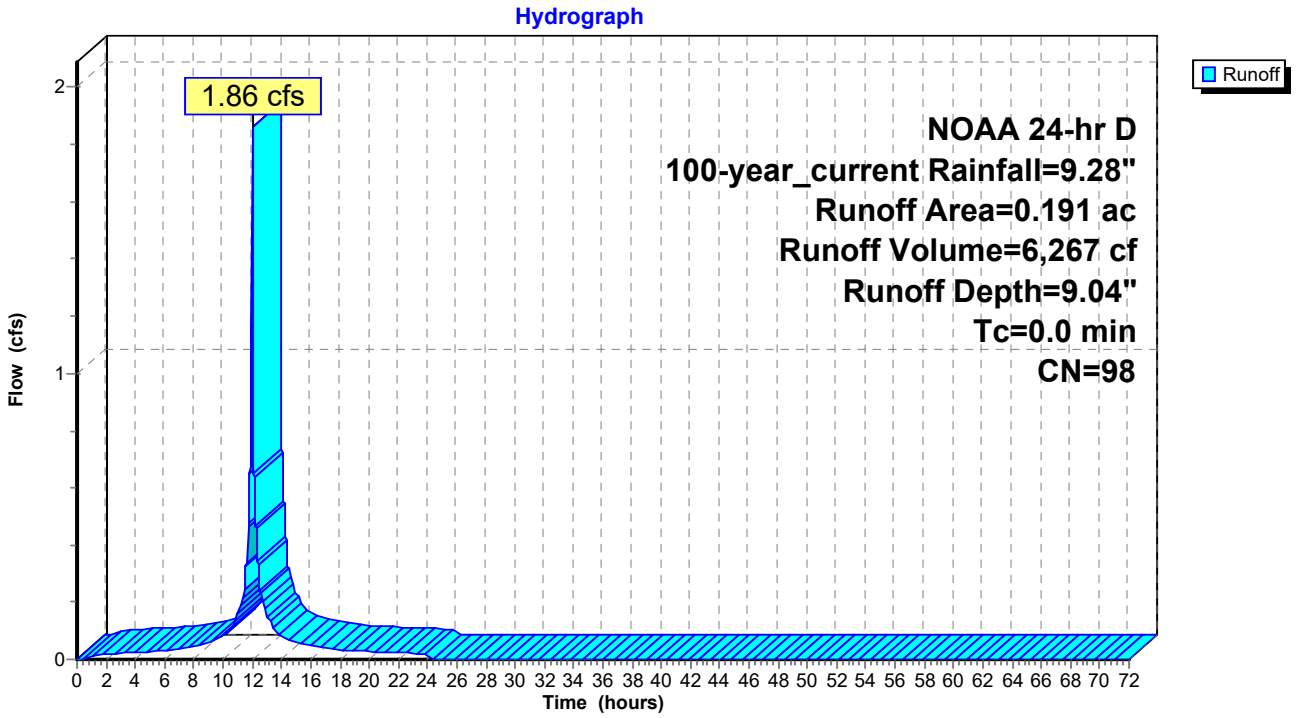
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.86 cfs @ 12.09 hrs, Volume= 6,267 cf, Depth= 9.04"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.191	98	direct rainfall onto bioretention
	0.191	98	100.00% Impervious Area

Subcatchment 48S: Direct Rainfall Basin 1B Bioretention



Summary for Subcatchment 49S: Direct Rainfall Basin 1A Infiltration

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

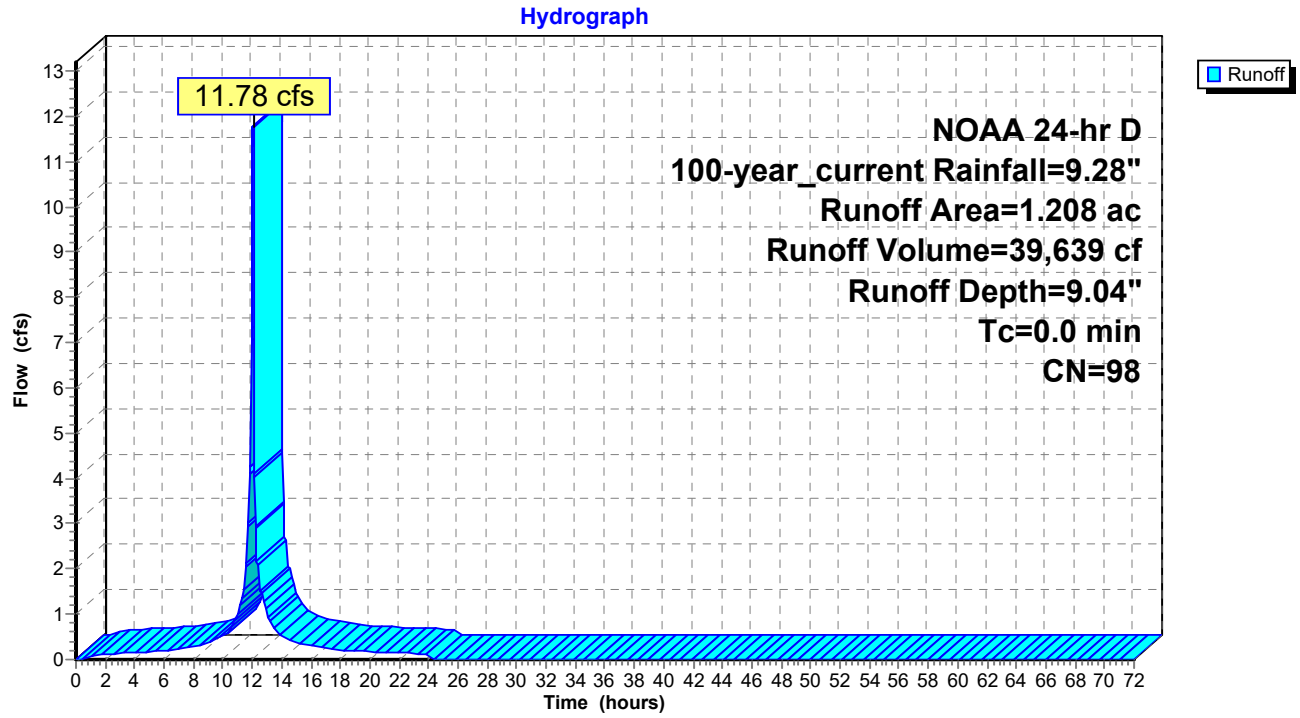
Runoff = 11.78 cfs @ 12.09 hrs, Volume= 39,639 cf, Depth= 9.04"
Routed to Pond 48P : Basin 1A Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	1.208	98	
	1.208	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					**Direct Entry,**

Subcatchment 49S: Direct Rainfall Basin 1A Infiltration



Summary for Subcatchment 50S: Direct Rainfall Basin 1B Infiltration

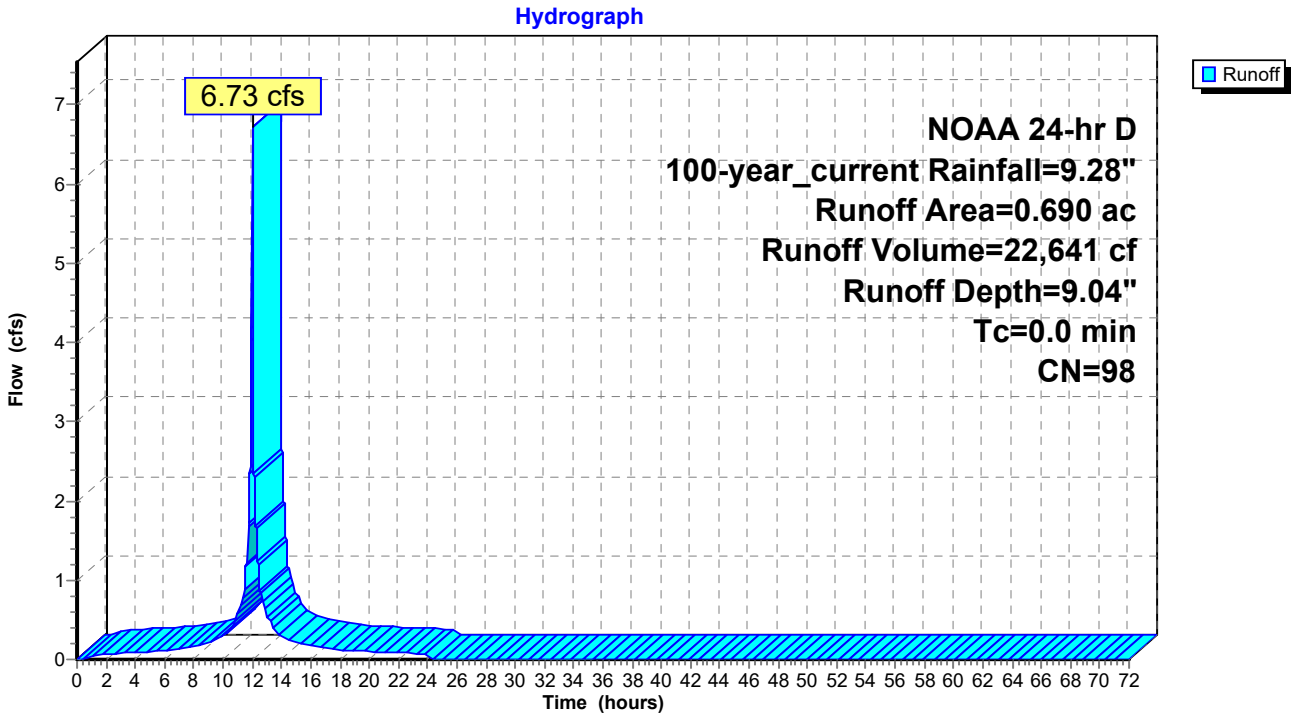
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 6.73 cfs @ 12.09 hrs, Volume= 22,641 cf, Depth= 9.04"
Routed to Pond 46P : Basin 1B Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.690	98	direct rainfall
	0.690	98	100.00% Impervious Area

Subcatchment 50S: Direct Rainfall Basin 1B Infiltration



Summary for Subcatchment 52S: Direct Rainfall Basin 1A Forebay

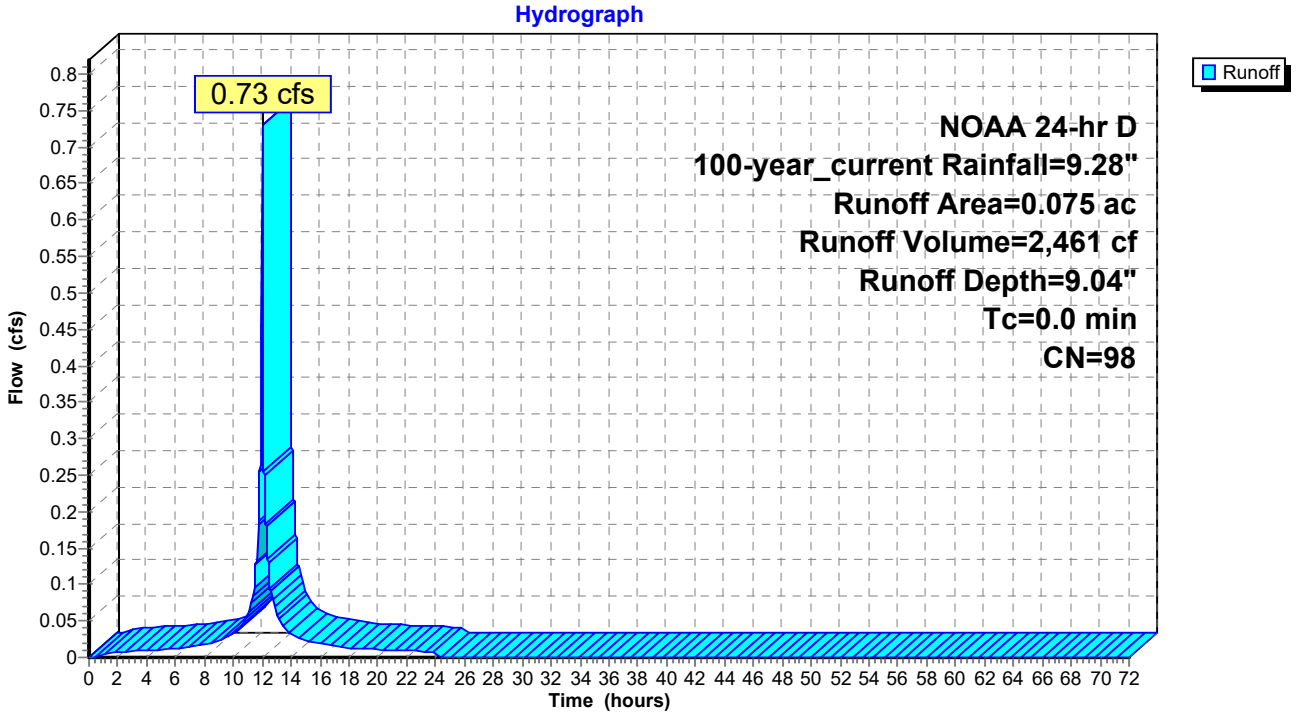
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.73 cfs @ 12.09 hrs, Volume= 2,461 cf, Depth= 9.04"
Routed to Pond 15P : Basin 1A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.075	98	direct rainfall
	0.075	98	100.00% Impervious Area

Subcatchment 52S: Direct Rainfall Basin 1A Forebay



Summary for Subcatchment 54S: Direct Rainfall Basin 2A forebay

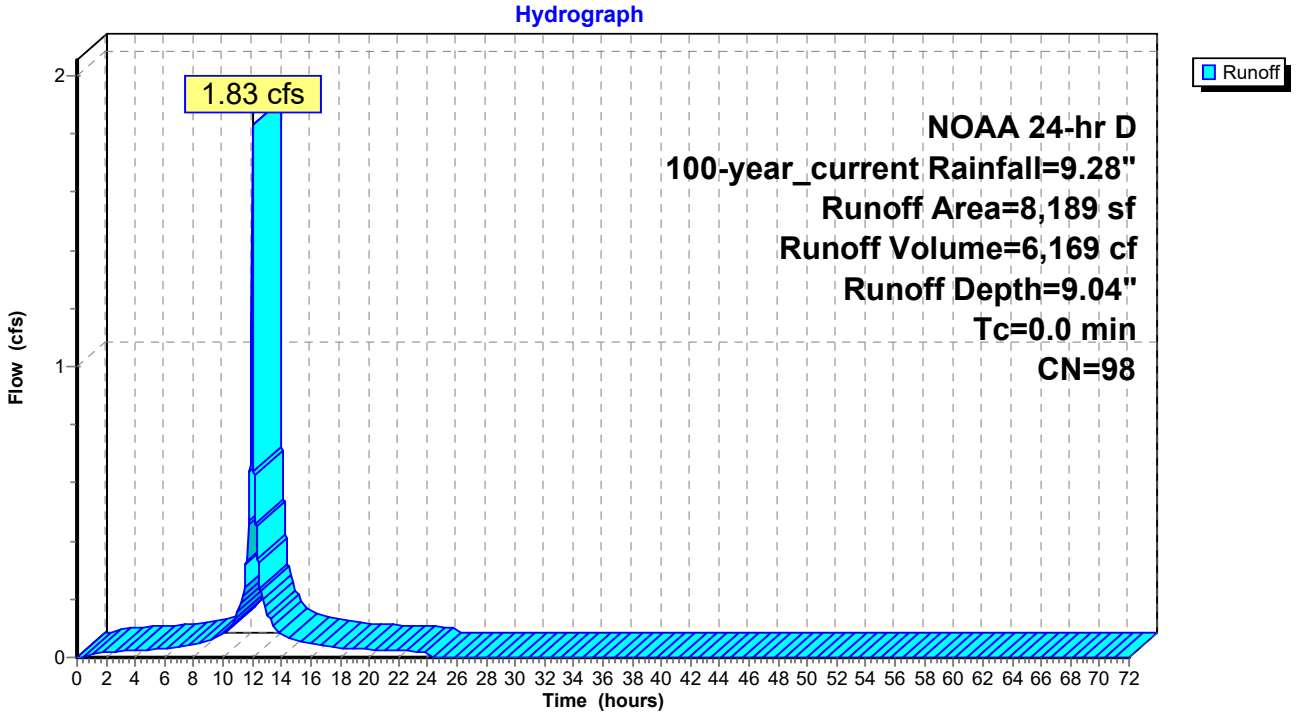
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.83 cfs @ 12.09 hrs, Volume= 6,169 cf, Depth= 9.04"
Routed to Pond 26P : Basin 2A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (sf)	CN	Description
*	8,189	98	direct rainfall to forebay
	8,189	98	100.00% Impervious Area

Subcatchment 54S: Direct Rainfall Basin 2A forebay



Summary for Subcatchment 55S: Direct Rainfall Basin 3 Forebay

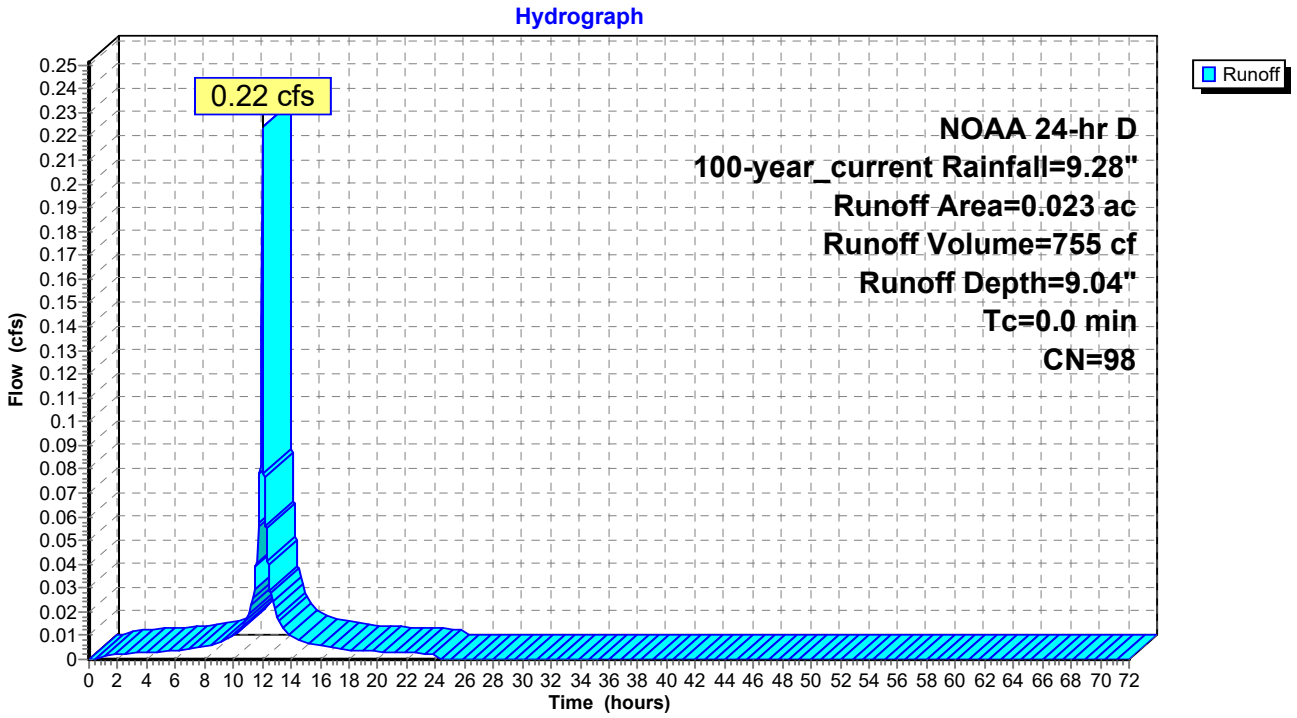
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.22 cfs @ 12.09 hrs, Volume= 755 cf, Depth= 9.04"
Routed to Pond 38P : Basin 3 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.023	98	direct rainfall
	0.023	98	100.00% Impervious Area

Subcatchment 55S: Direct Rainfall Basin 3 Forebay



Summary for Subcatchment 56S: Direct Rainfall Basin 1B Forebay

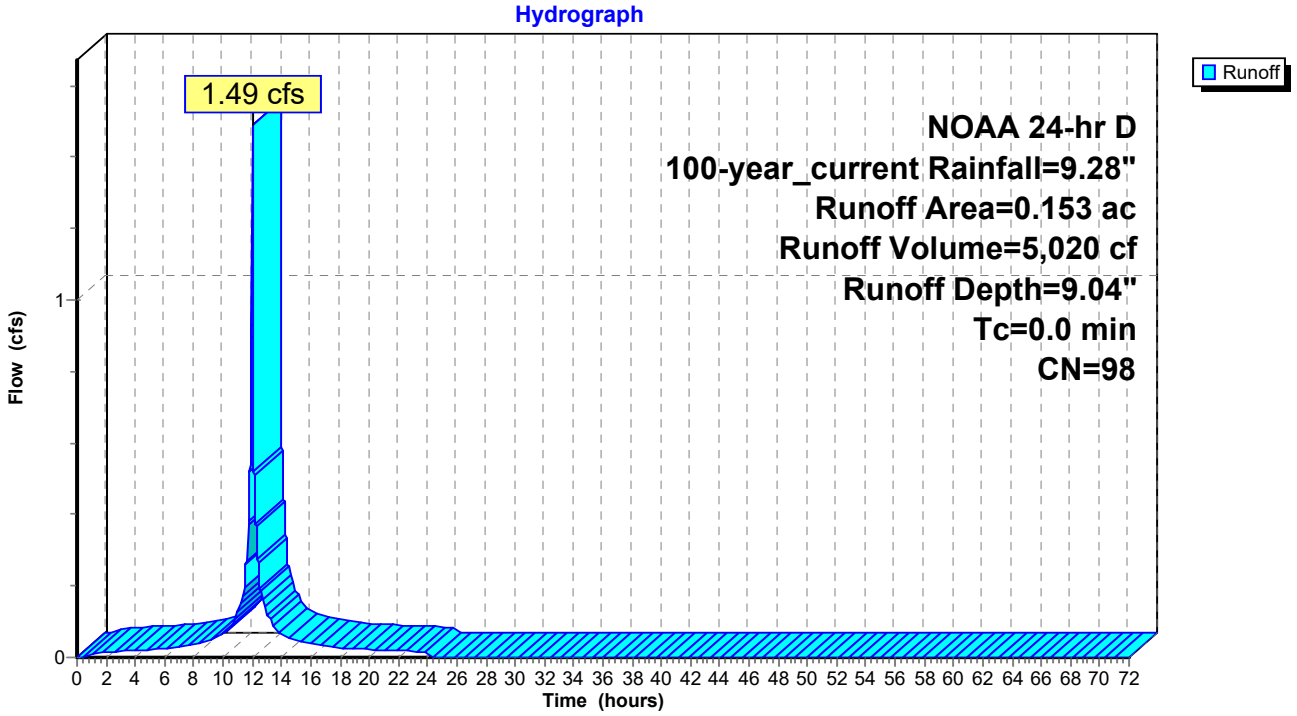
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.49 cfs @ 12.09 hrs, Volume= 5,020 cf, Depth= 9.04"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.153	98	direct rainfall
	0.153	98	100.00% Impervious Area

Subcatchment 56S: Direct Rainfall Basin 1B Forebay



Summary for Subcatchment 57S: Direct Rainfall Basin 4 Forebay

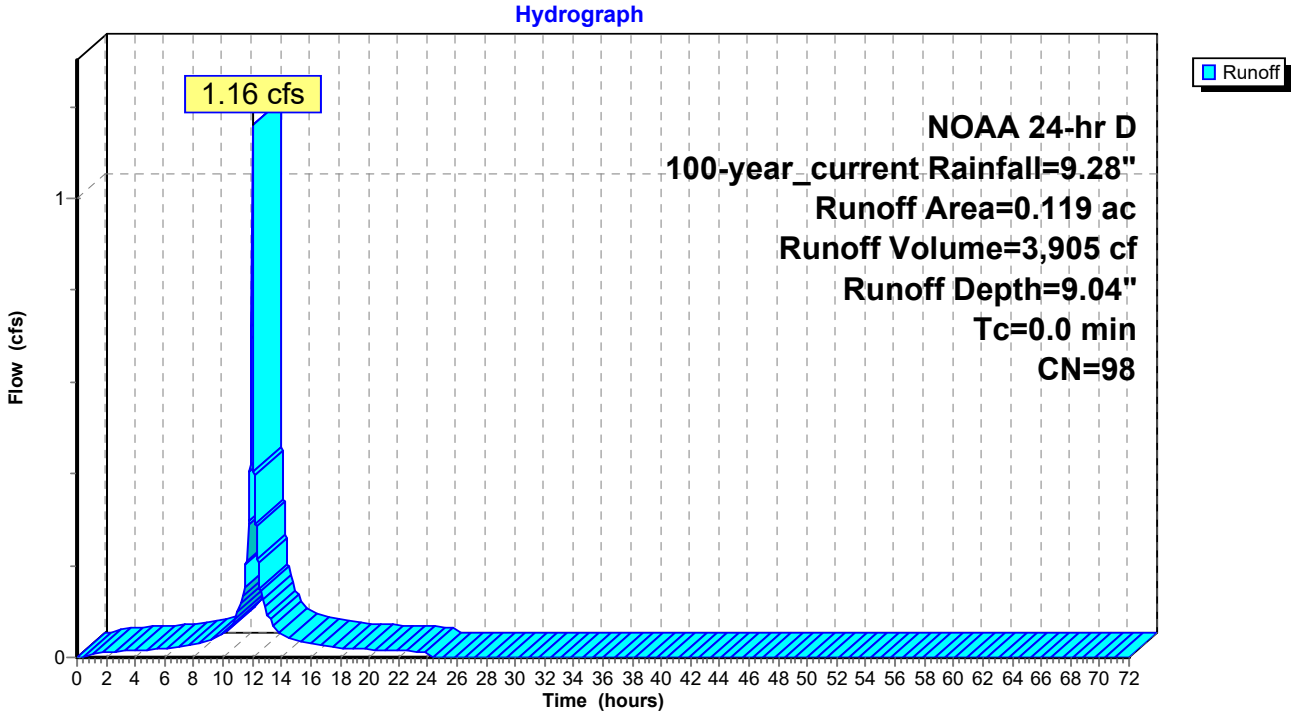
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 3,905 cf, Depth= 9.04"
Routed to Pond 39P : Basin 4 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.119	98	direct rainfall
	0.119	98	100.00% Impervious Area

Subcatchment 57S: Direct Rainfall Basin 4 Forebay



Summary for Subcatchment 58S: Direct forest undeveloped runoff to basin

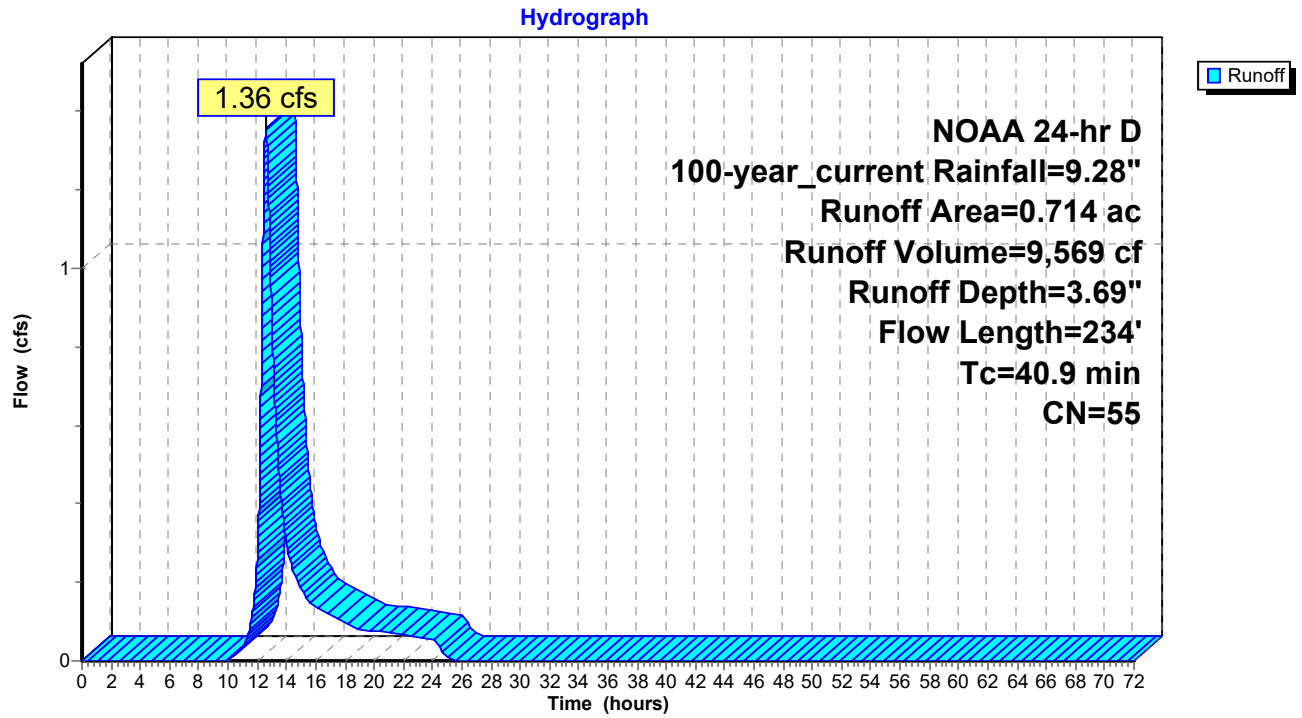
Runoff = 1.36 cfs @ 12.59 hrs, Volume= 9,569 cf, Depth= 3.69"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

Area (ac)	CN	Description
0.714	55	Woods, Good, HSG B
0.714	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	100	0.0200	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.40"
4.6	134	0.0370	0.48		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
40.9	234	Total			

Subcatchment 58S: Direct forest undeveloped runoff to basin



Summary for Subcatchment 59S: Direct Rainfall Basin 4 Infiltration

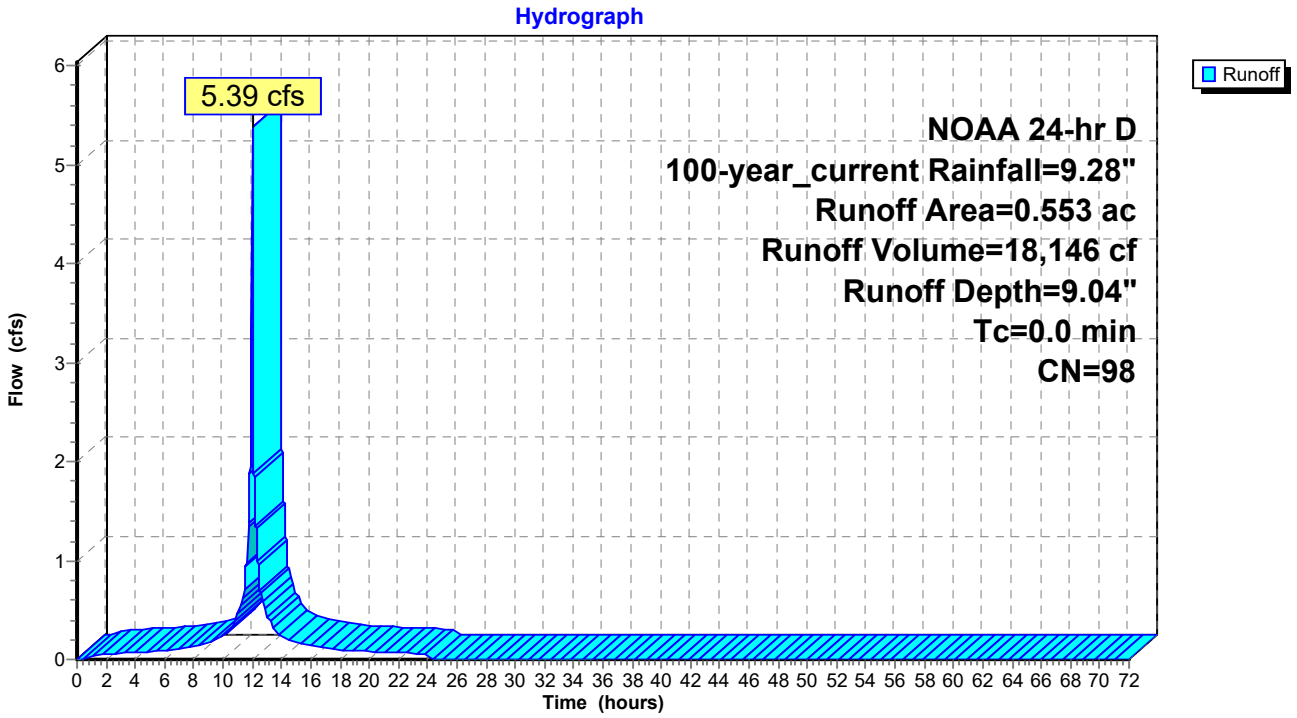
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 5.39 cfs @ 12.09 hrs, Volume= 18,146 cf, Depth= 9.04"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.553	98	direct rainfall
	0.553	98	100.00% Impervious Area

Subcatchment 59S: Direct Rainfall Basin 4 Infiltration



Summary for Subcatchment 62S: Direct Rainfall Basin 3 Infiltration

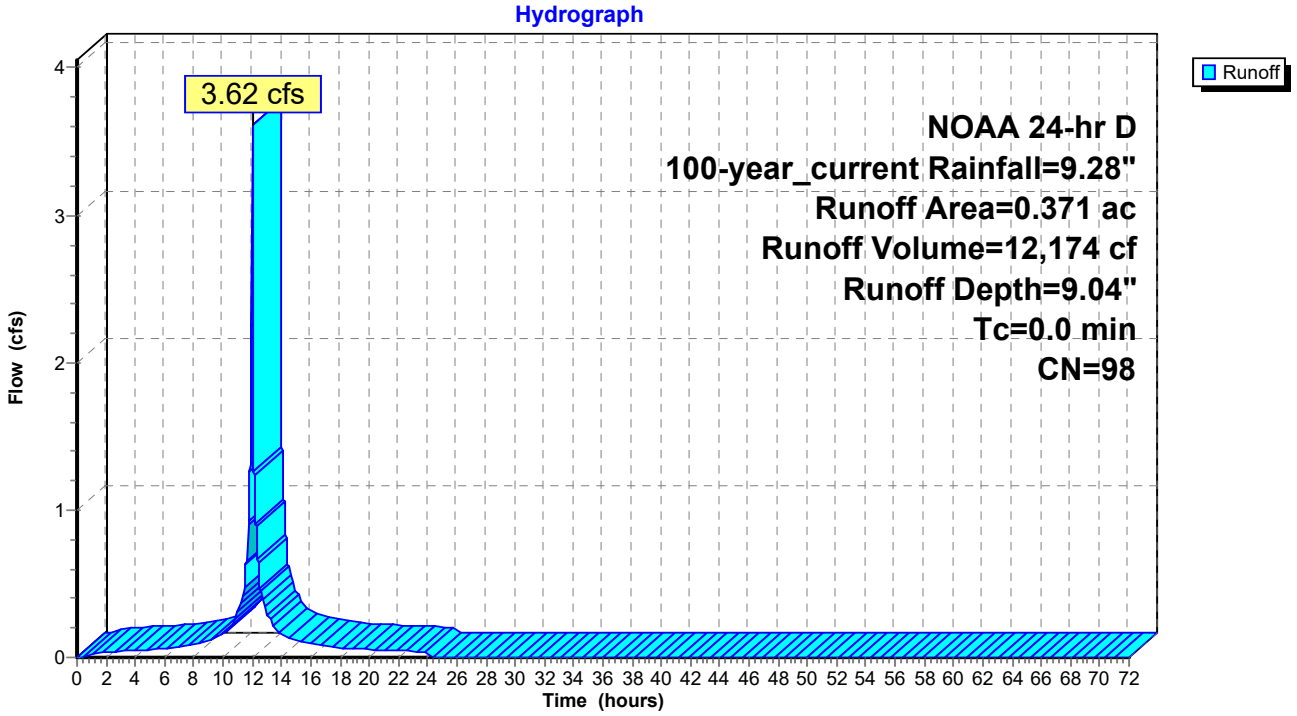
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.62 cfs @ 12.09 hrs, Volume= 12,174 cf, Depth= 9.04"
Routed to Pond 61P : Basin 3 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.371	98	
	0.371	98	100.00% Impervious Area

Subcatchment 62S: Direct Rainfall Basin 3 Infiltration



Summary for Subcatchment 65S: Direct Rainfall Basin 3 Bioretention

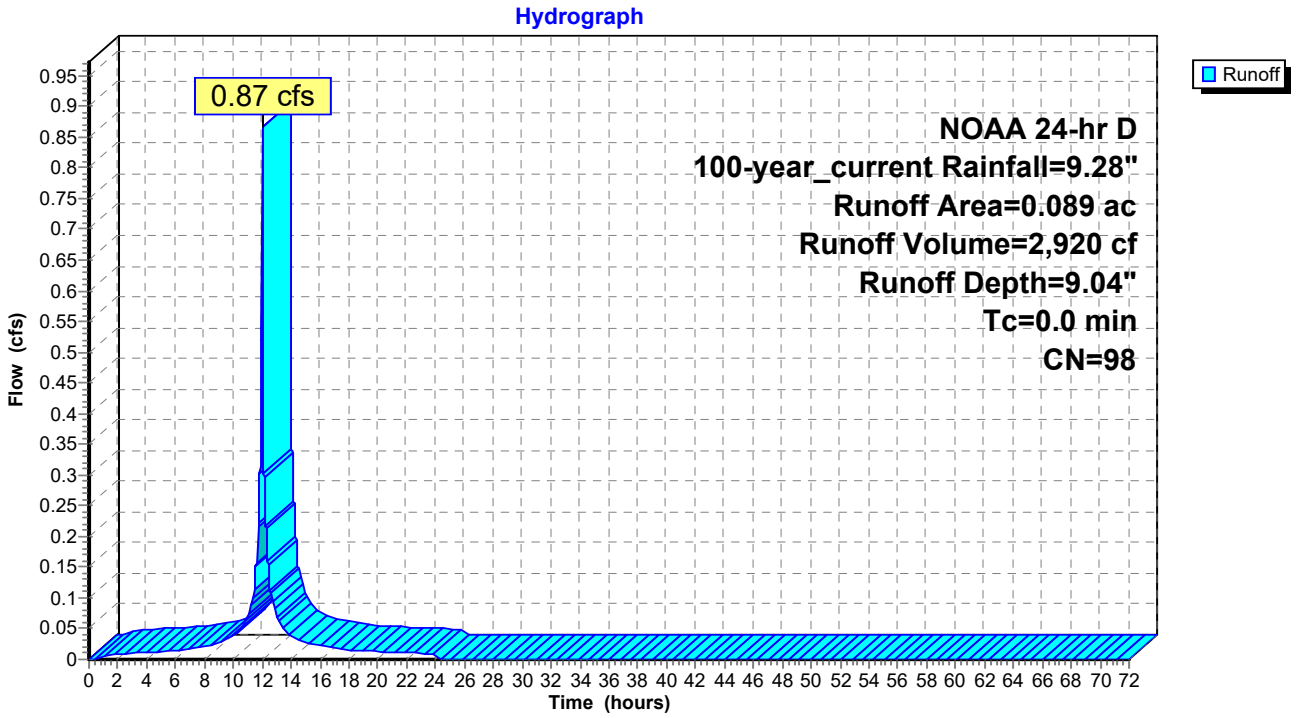
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.87 cfs @ 12.09 hrs, Volume= 2,920 cf, Depth= 9.04"
Routed to Pond 60P : Basin 3 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.089	98	
	0.089	98	100.00% Impervious Area

Subcatchment 65S: Direct Rainfall Basin 3 Bioretention



Summary for Subcatchment 69S: Direct Rainfall Basin 2B Forebay

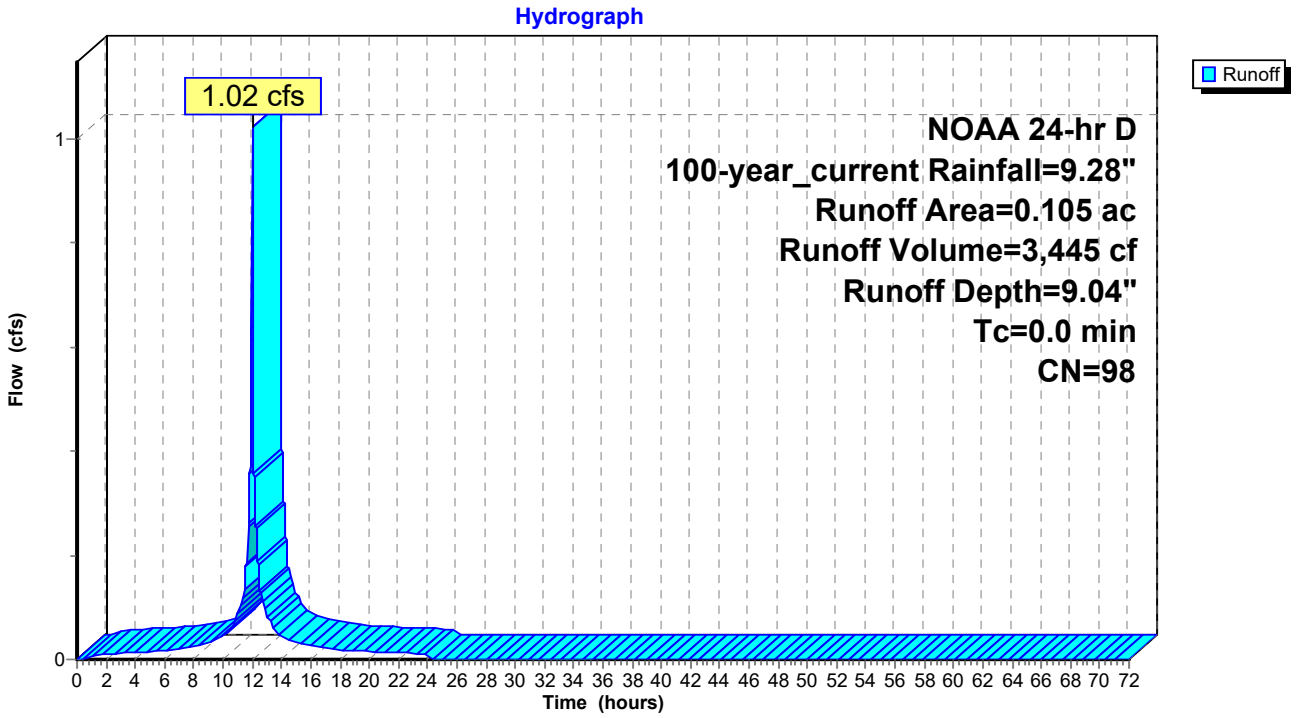
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.02 cfs @ 12.09 hrs, Volume= 3,445 cf, Depth= 9.04"
Routed to Pond 65P : Basin 2B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.105	98	direct rainfall
	0.105	98	100.00% Impervious Area

Subcatchment 69S: Direct Rainfall Basin 2B Forebay



Summary for Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin

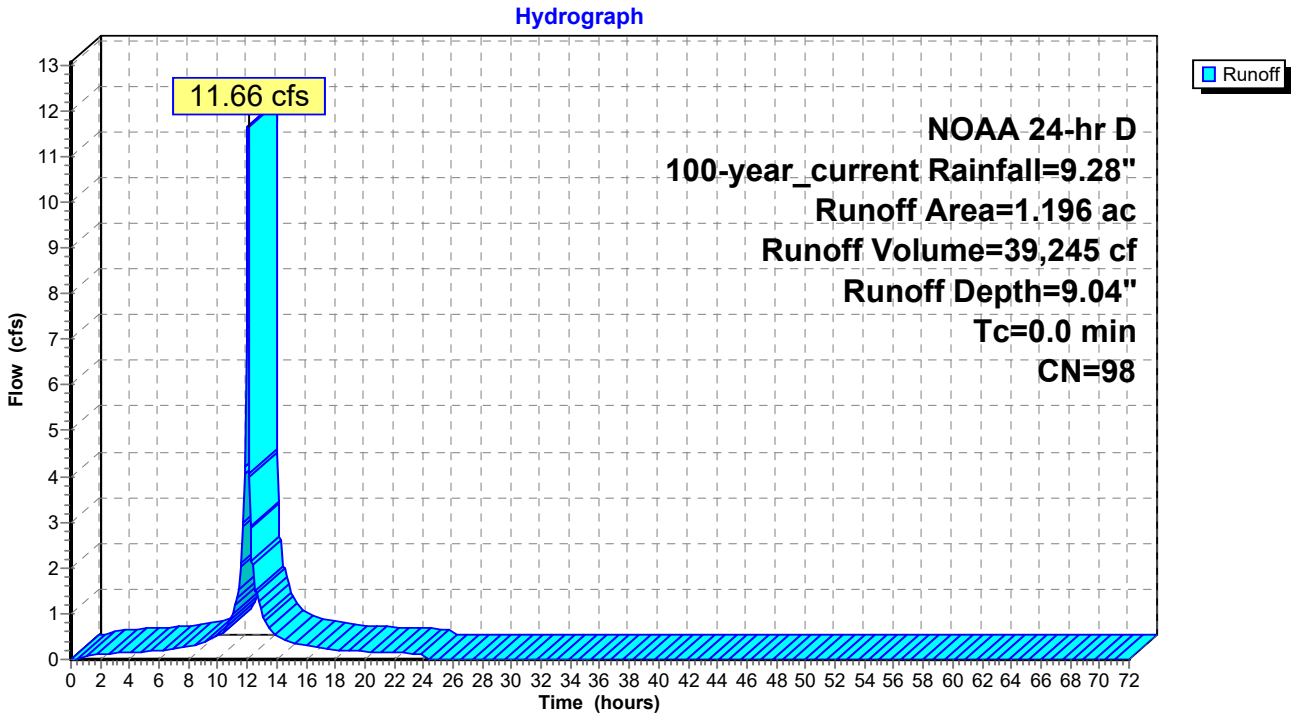
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 11.66 cfs @ 12.09 hrs, Volume= 39,245 cf, Depth= 9.04"
Routed to Pond 66P : Basin 2B Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	1.196	98	direct rainfall
	1.196	98	100.00% Impervious Area

Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin



Summary for Subcatchment 71S: Direct Rainfall to Bioretention

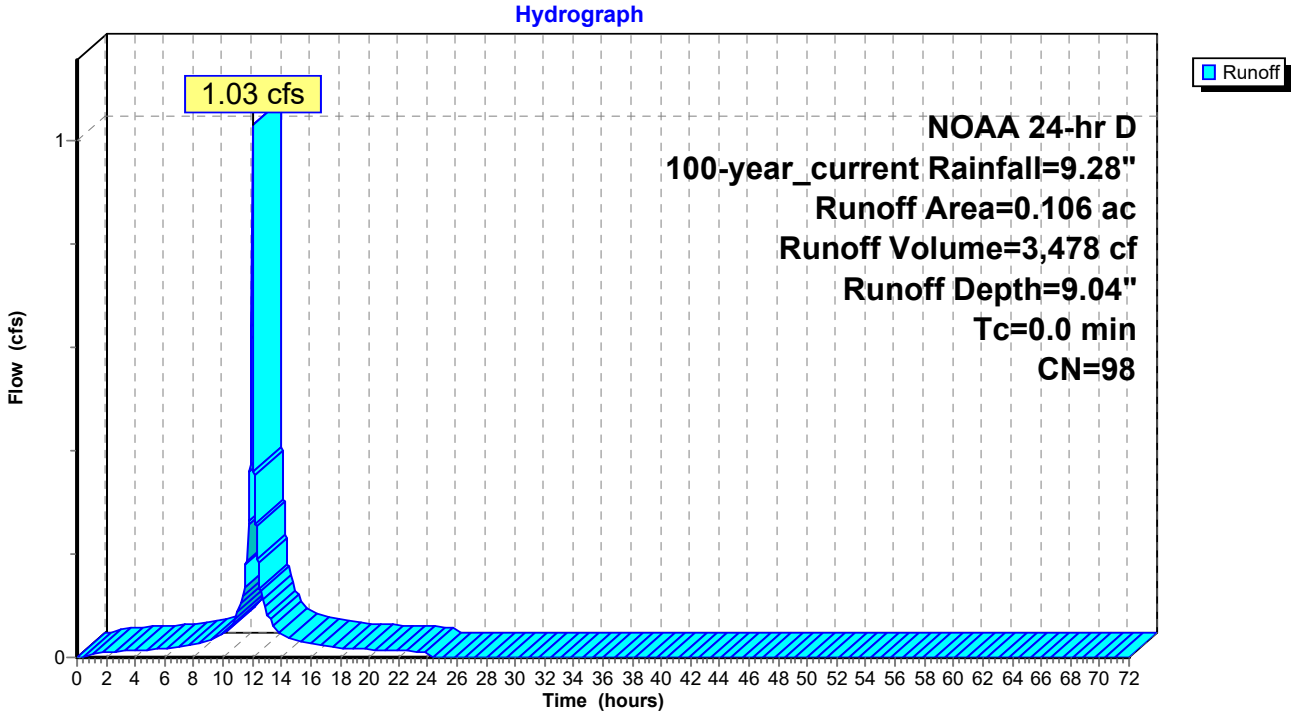
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.03 cfs @ 12.09 hrs, Volume= 3,478 cf, Depth= 9.04"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.106	98	direct rainfall to bioretention
	0.106	98	100.00% Impervious Area

Subcatchment 71S: Direct Rainfall to Bioretention



Summary for Subcatchment 74S: Direct forest runoff to infiltration basin

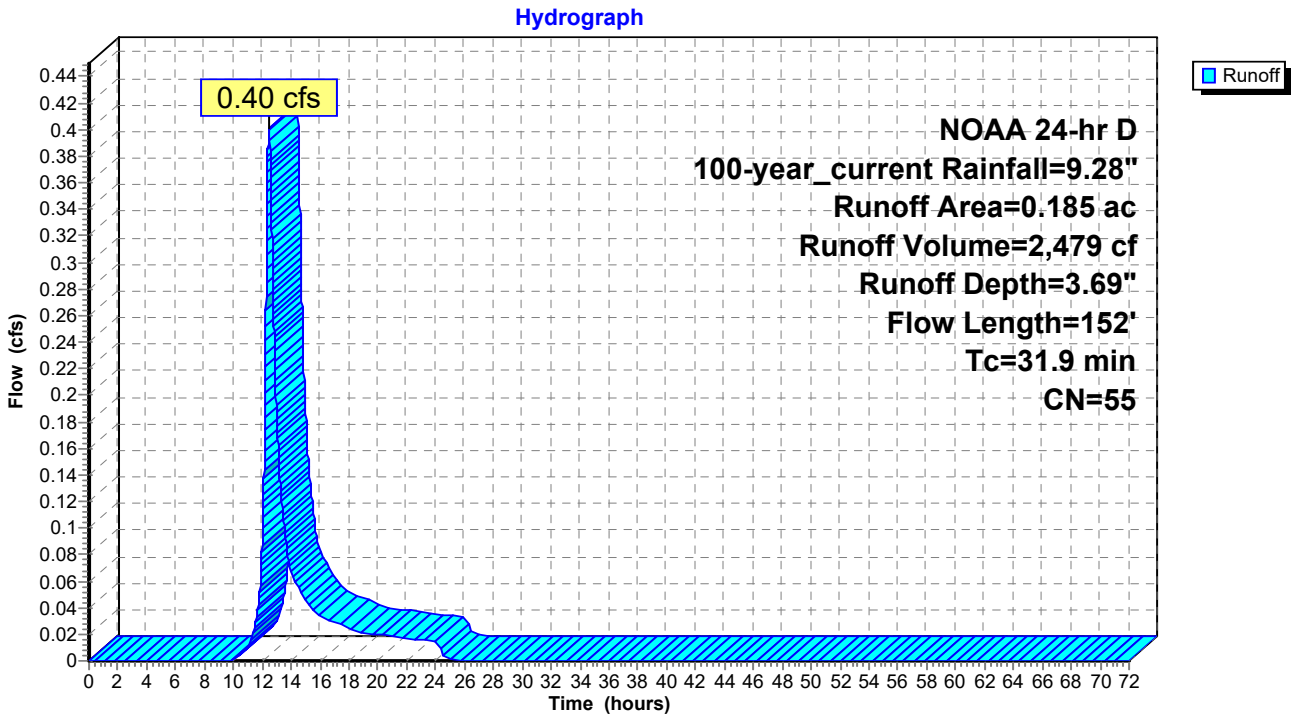
Runoff = 0.40 cfs @ 12.45 hrs, Volume= 2,479 cf, Depth= 3.69"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

Area (ac)	CN	Description
0.185	55	Woods, Good, HSG B
0.185	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.8	100	0.0300	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.40"
1.1	52	0.1000	0.79		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
31.9	152	Total			

Subcatchment 74S: Direct forest runoff to infiltration basin



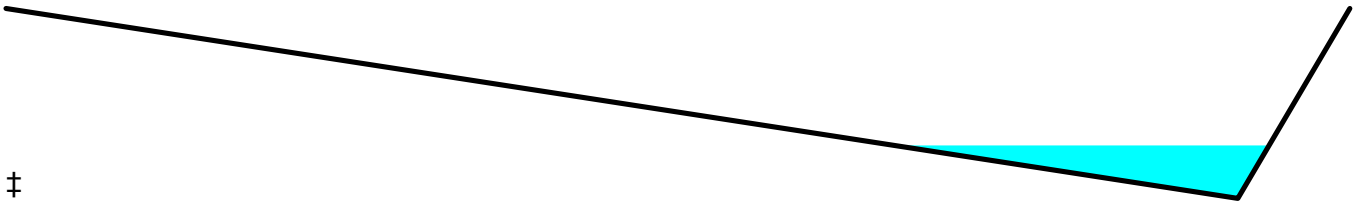
Summary for Reach 29R: DA1A East Swale

Inflow Area = 182,579 sf, 6.17% Impervious, Inflow Depth = 2.19" for 100-year_current event
Inflow = 6.13 cfs @ 12.26 hrs, Volume= 33,273 cf
Outflow = 3.77 cfs @ 12.82 hrs, Volume= 33,273 cf, Atten= 38%, Lag= 33.5 min
Routed to Pond 15P : Basin 1A Forebay

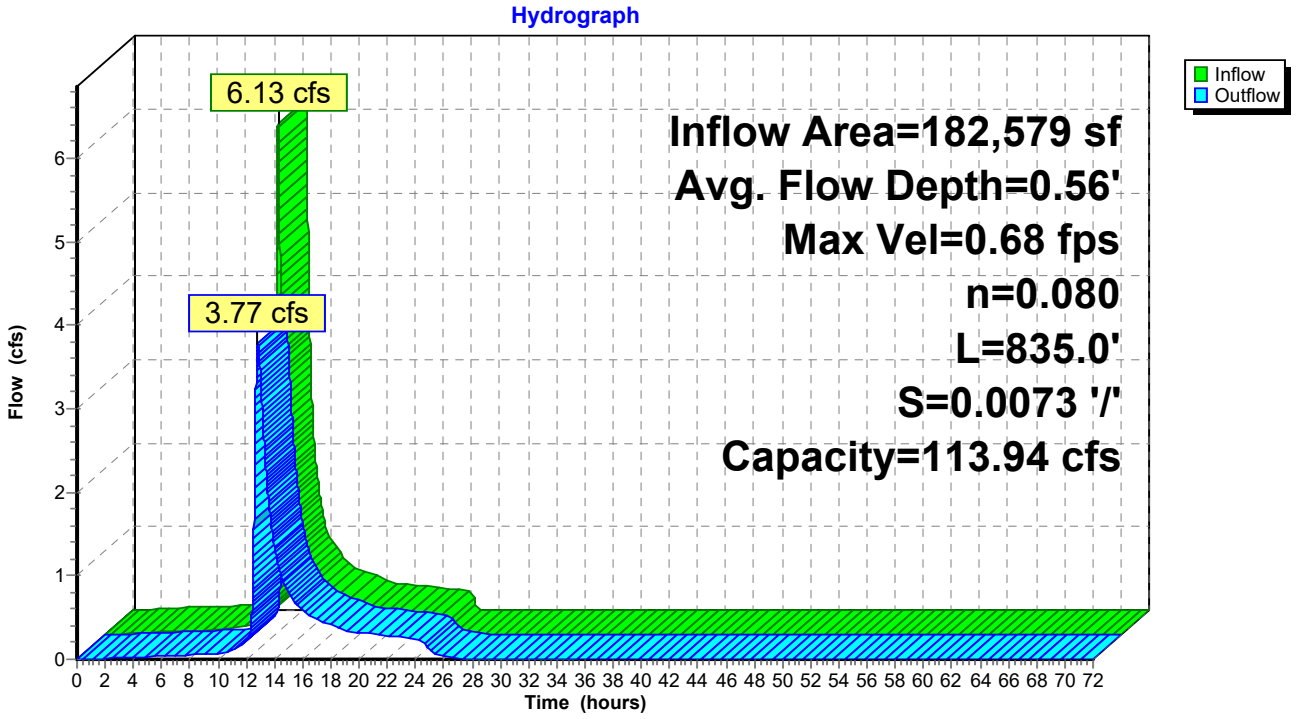
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.68 fps, Min. Travel Time= 20.6 min
Avg. Velocity = 0.22 fps, Avg. Travel Time= 64.5 min

Peak Storage= 4,666 cf @ 12.48 hrs
Average Depth at Peak Storage= 0.56' , Surface Width= 20.06'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 113.94 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 835.0' Slope= 0.0073 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡



Summary for Reach 30R: DA1A West Swale

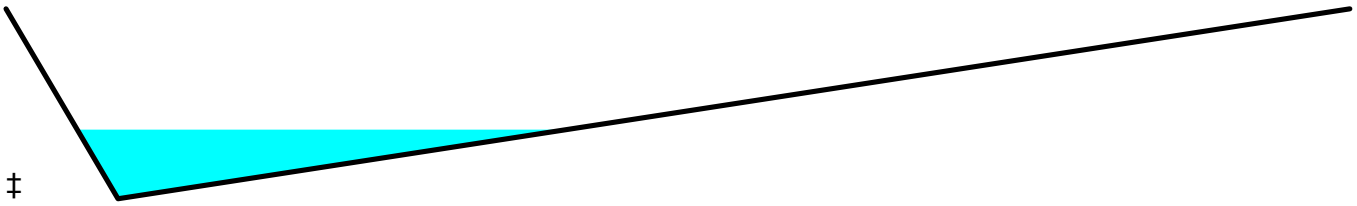
[62] Hint: Exceeded Reach 41R OUTLET depth by 0.39' @ 12.36 hrs

Inflow Area = 324,304 sf, 6.25% Impervious, Inflow Depth = 2.19" for 100-year_current event
Inflow = 8.24 cfs @ 12.29 hrs, Volume= 59,258 cf
Outflow = 5.57 cfs @ 12.84 hrs, Volume= 59,258 cf, Atten= 32%, Lag= 32.6 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.59 fps, Min. Travel Time= 18.5 min
Avg. Velocity = 0.18 fps, Avg. Travel Time= 60.2 min

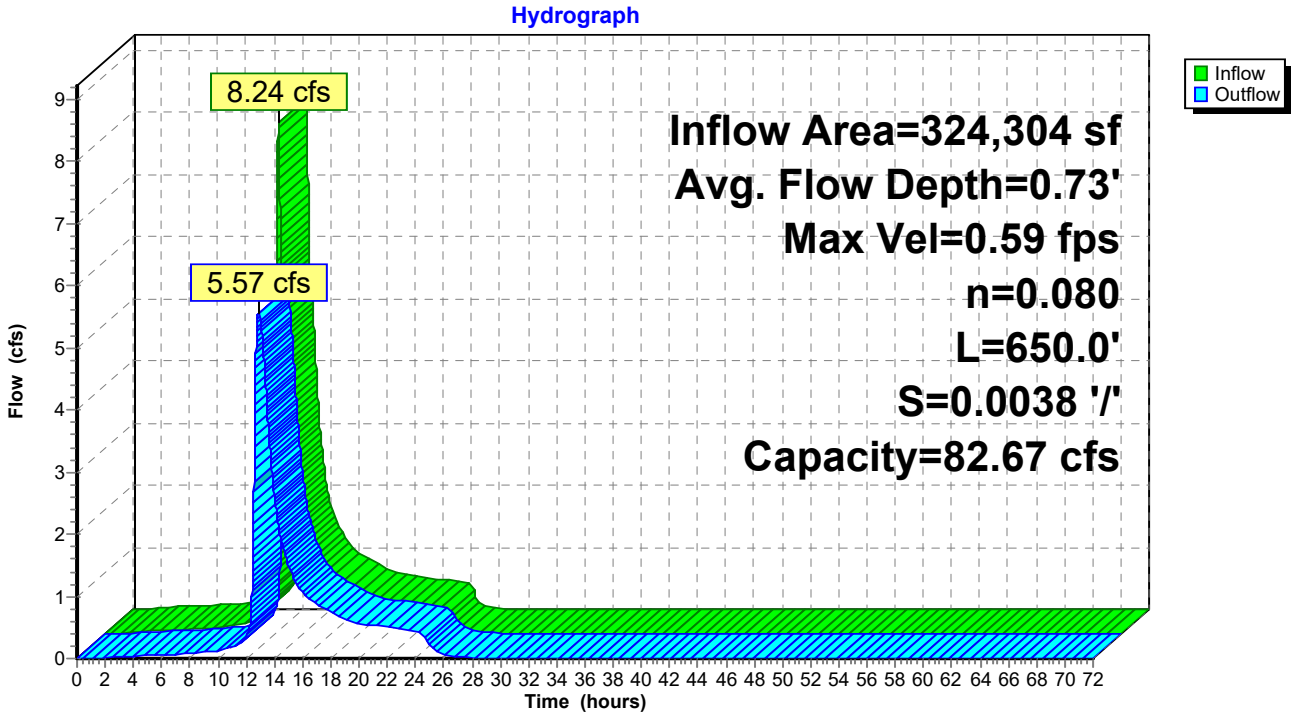
Peak Storage= 6,189 cf @ 12.53 hrs
Average Depth at Peak Storage= 0.73' , Surface Width= 26.18'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 82.67 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 650.0' Slope= 0.0038 '/'
Inlet Invert= 162.50', Outlet Invert= 160.00'



‡

Reach 30R: DA1A West Swale



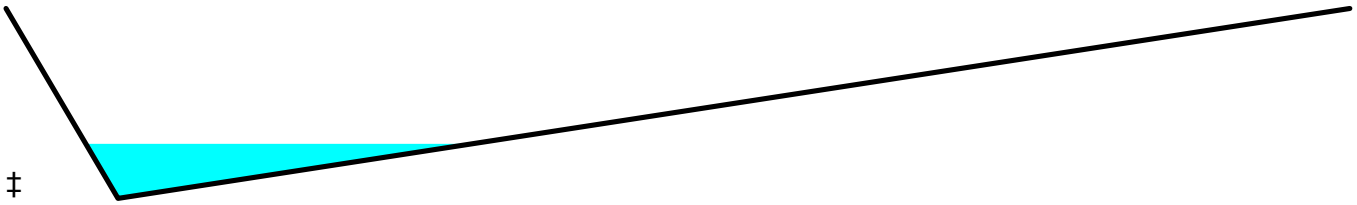
Summary for Reach 31R: DA2B East Swale

Inflow Area = 195,980 sf, 6.17% Impervious, Inflow Depth = 2.19" for 100-year_current event
Inflow = 6.40 cfs @ 12.29 hrs, Volume= 35,715 cf
Outflow = 4.36 cfs @ 12.74 hrs, Volume= 35,715 cf, Atten= 32%, Lag= 27.5 min
Routed to Pond 65P : Basin 2B Forebay

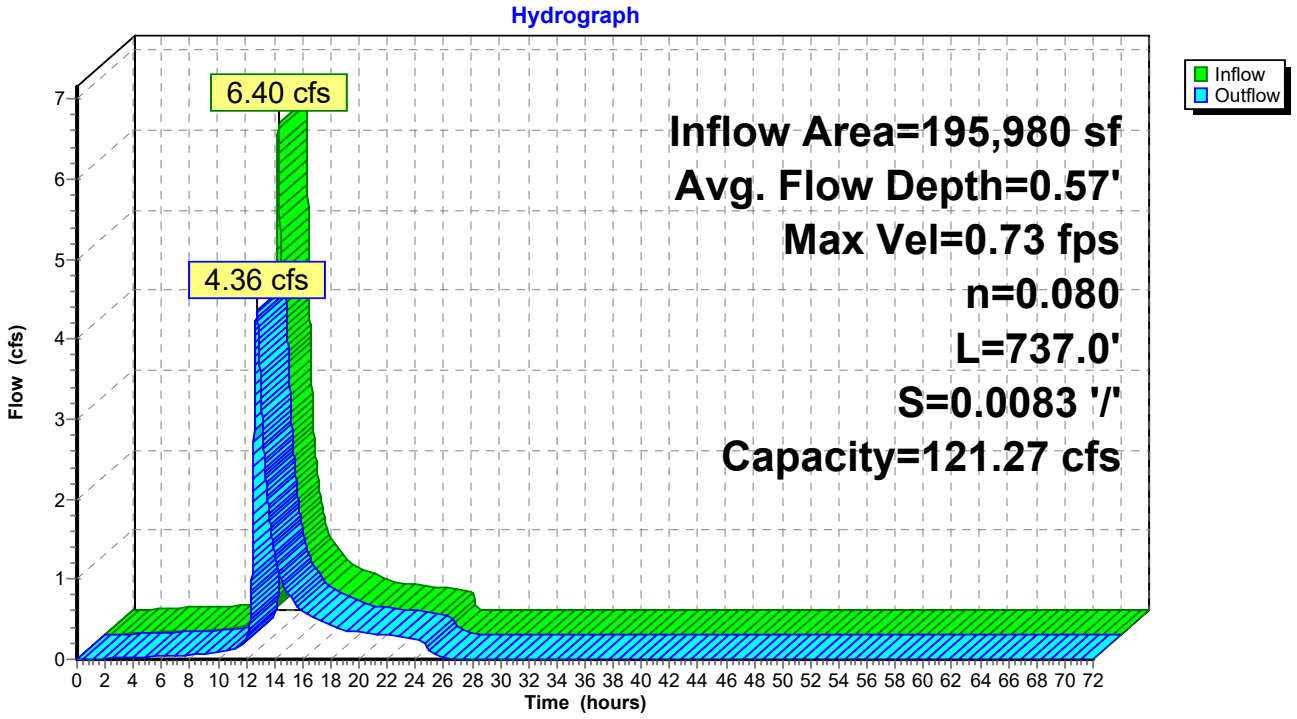
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.73 fps, Min. Travel Time= 16.7 min
Avg. Velocity = 0.24 fps, Avg. Travel Time= 50.9 min

Peak Storage= 4,379 cf @ 12.46 hrs
Average Depth at Peak Storage= 0.57' , Surface Width= 20.68'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 121.27 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 737.0' Slope= 0.0083 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡



Summary for Reach 33R: DA2B West Swale

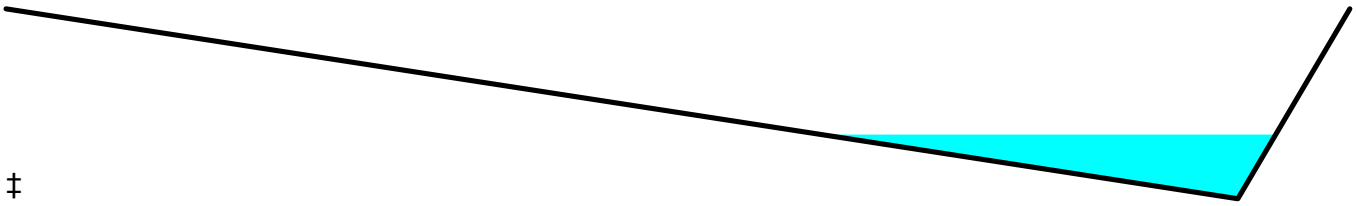
[61] Hint: Exceeded Reach 45R outlet invert by 0.68' @ 12.42 hrs

Inflow Area = 182,604 sf, 6.25% Impervious, Inflow Depth = 2.19" for 100-year_current event
Inflow = 5.91 cfs @ 12.29 hrs, Volume= 33,371 cf
Outflow = 4.61 cfs @ 12.61 hrs, Volume= 33,371 cf, Atten= 22%, Lag= 19.6 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.56 fps, Min. Travel Time= 11.4 min
Avg. Velocity = 0.19 fps, Avg. Travel Time= 33.9 min

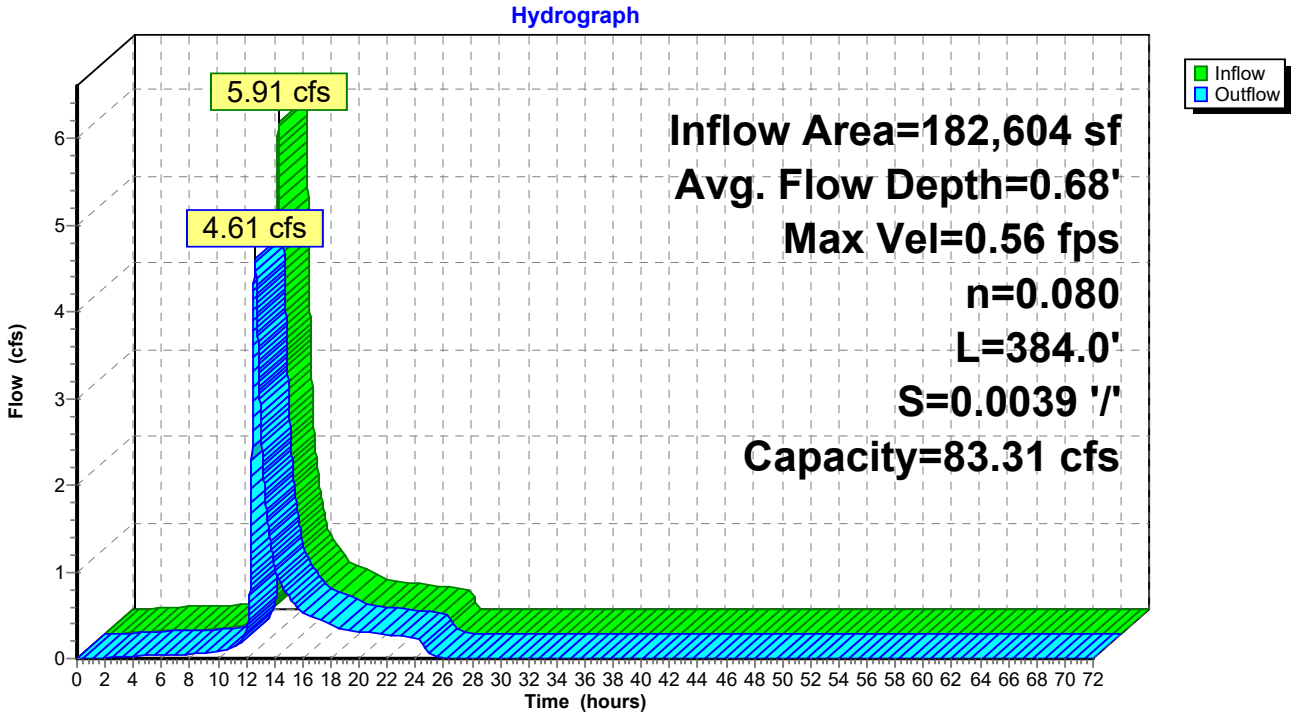
Peak Storage= 3,153 cf @ 12.42 hrs
Average Depth at Peak Storage= 0.68' , Surface Width= 24.31'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 83.31 cfs

0.00' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 384.0' Slope= 0.0039 '/'
Inlet Invert= 162.50', Outlet Invert= 161.00'



‡

Reach 33R: DA2B West Swale



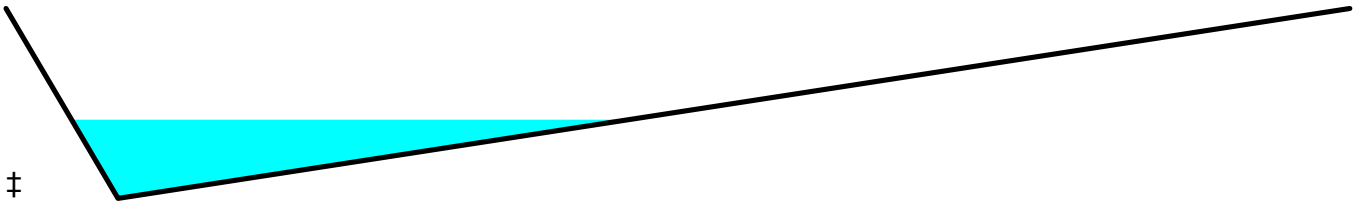
Summary for Reach 34R: DA4 West Swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 6.54" for 100-year_current event
Inflow = 11.46 cfs @ 12.10 hrs, Volume= 38,085 cf
Outflow = 8.23 cfs @ 12.27 hrs, Volume= 38,085 cf, Atten= 28%, Lag= 10.6 min
Routed to Reach 43R : DA4 Roadside swale

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.67 fps, Min. Travel Time= 8.9 min
Avg. Velocity = 0.22 fps, Avg. Travel Time= 27.6 min

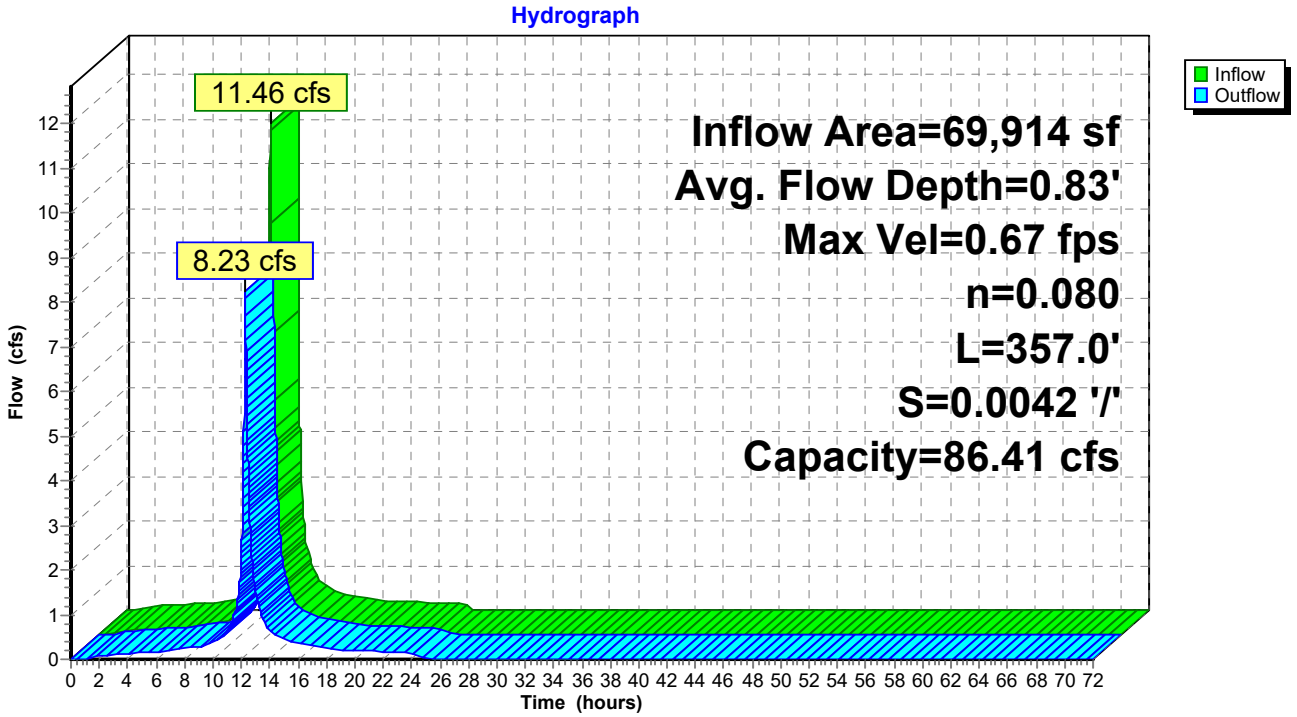
Peak Storage= 4,409 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.83' , Surface Width= 29.82'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 86.41 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 357.0' Slope= 0.0042 '/'
Inlet Invert= 163.50', Outlet Invert= 162.00'



‡

Reach 34R: DA4 West Swale



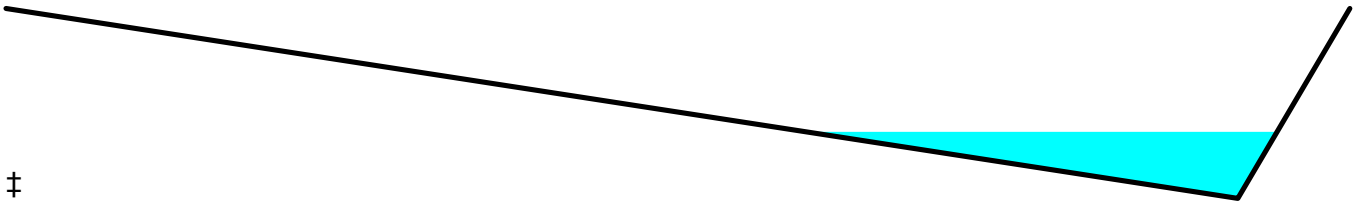
Summary for Reach 35R: DA2A West Swale

Inflow Area = 55,016 sf, 69.91% Impervious, Inflow Depth = 6.84" for 100-year_current event
Inflow = 9.38 cfs @ 12.10 hrs, Volume= 31,370 cf
Outflow = 6.12 cfs @ 12.33 hrs, Volume= 31,370 cf, Atten= 35%, Lag= 13.6 min
Routed to Pond 26P : Basin 2A Forebay

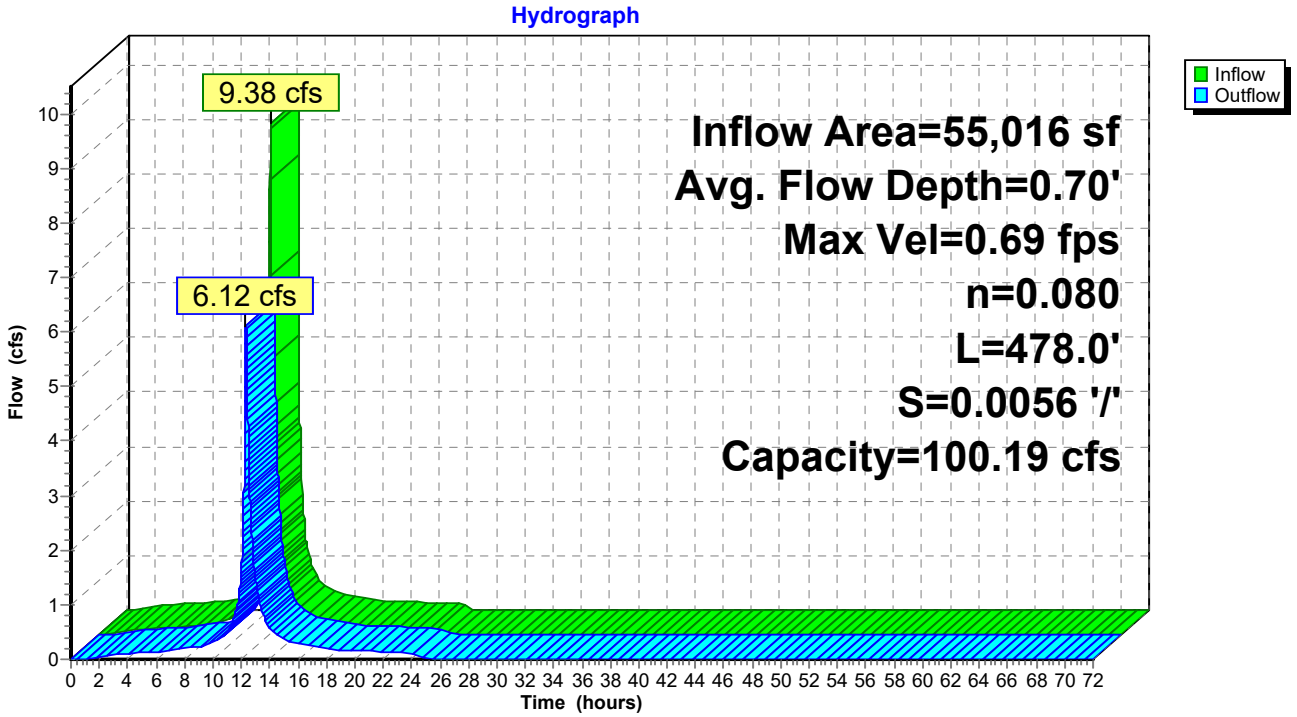
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.69 fps, Min. Travel Time= 11.5 min
Avg. Velocity = 0.22 fps, Avg. Travel Time= 35.5 min

Peak Storage= 4,234 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.70' , Surface Width= 25.25'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 100.19 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 478.0' Slope= 0.0056 '/'
Inlet Invert= 162.20', Outlet Invert= 159.50'



‡



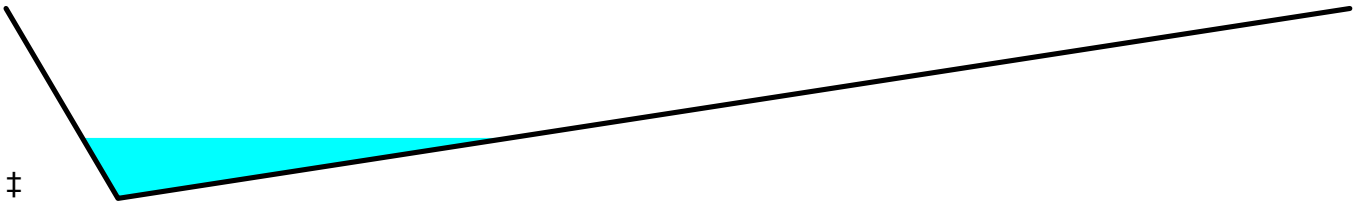
Summary for Reach 36R: DA2A East Swale

Inflow Area = 51,183 sf, 71.06% Impervious, Inflow Depth = 6.93" for 100-year_current event
Inflow = 8.66 cfs @ 12.11 hrs, Volume= 29,542 cf
Outflow = 8.22 cfs @ 12.16 hrs, Volume= 29,542 cf, Atten= 5%, Lag= 3.1 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.13 fps, Min. Travel Time= 2.2 min
Avg. Velocity = 0.43 fps, Avg. Travel Time= 5.7 min

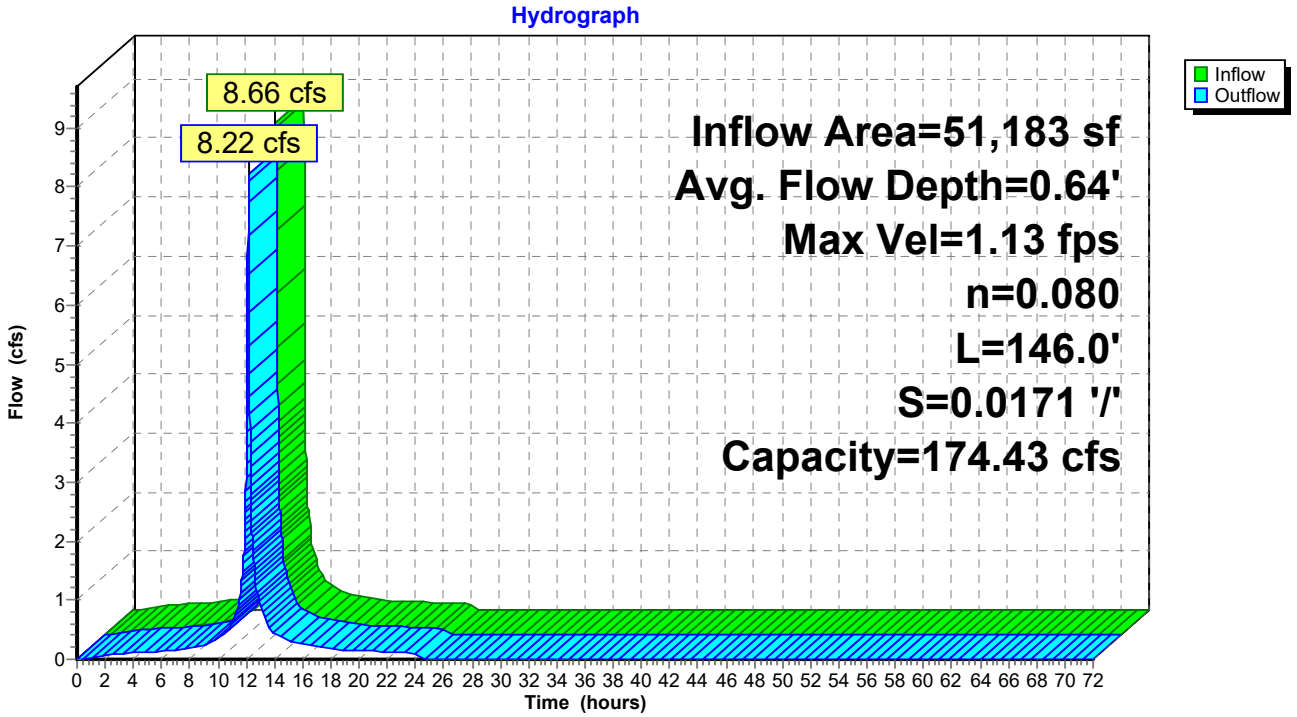
Peak Storage= 1,065 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.64' , Surface Width= 22.91'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 174.43 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 146.0' Slope= 0.0171 '/'
Inlet Invert= 162.00', Outlet Invert= 159.50'



‡

Reach 36R: DA2A East Swale



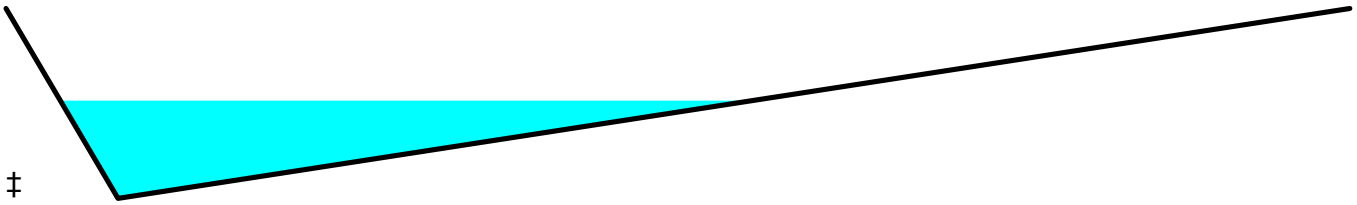
Summary for Reach 37R: DA1B Swale

Inflow Area = 104,152 sf, 91.22% Impervious, Inflow Depth = 8.40" for 100-year_current event
Inflow = 21.47 cfs @ 12.11 hrs, Volume= 72,890 cf
Outflow = 16.39 cfs @ 12.26 hrs, Volume= 72,890 cf, Atten= 24%, Lag= 9.4 min
Routed to Pond 18P : Basin 1B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.86 fps, Min. Travel Time= 7.4 min
Avg. Velocity = 0.27 fps, Avg. Travel Time= 23.4 min

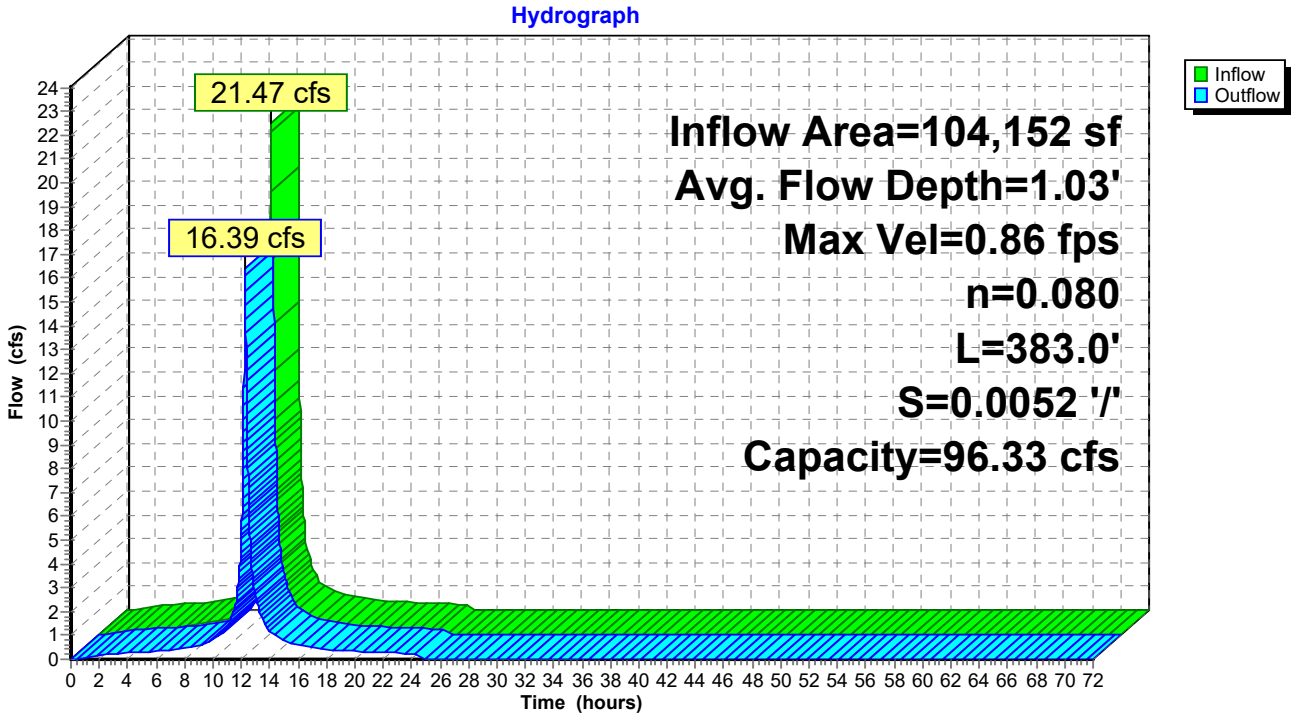
Peak Storage= 7,316 cf @ 12.14 hrs
Average Depth at Peak Storage= 1.03' , Surface Width= 37.08'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 96.33 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 383.0' Slope= 0.0052 '/'
Inlet Invert= 162.00', Outlet Invert= 160.00'



‡

Reach 37R: DA1B Swale



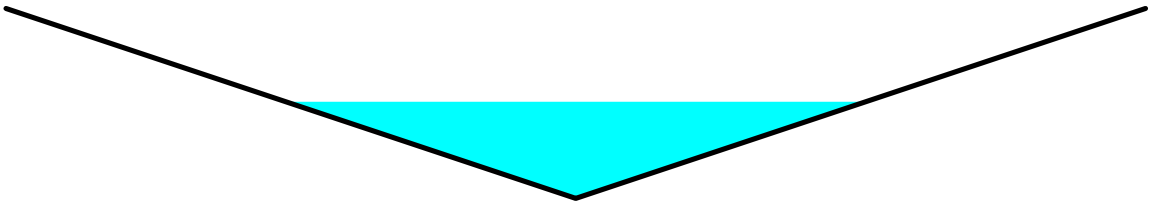
Summary for Reach 38R: DA3 Swale

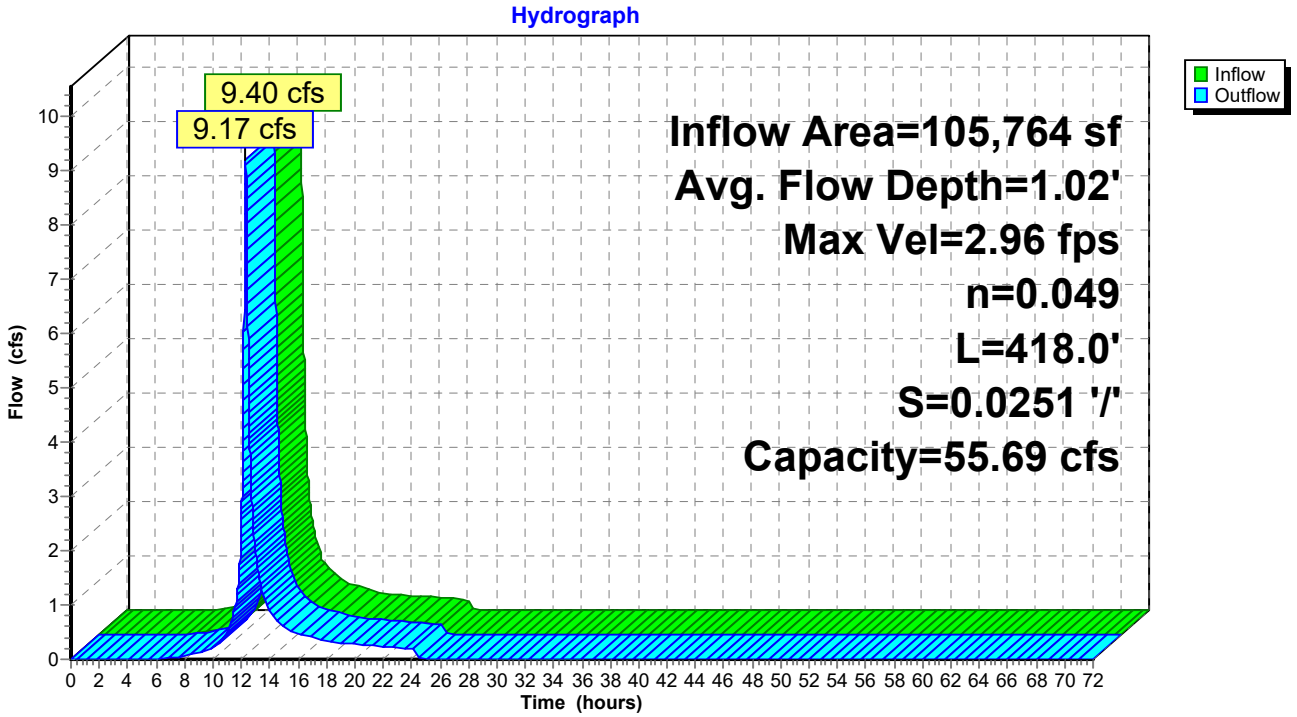
Inflow Area = 105,764 sf, 0.00% Impervious, Inflow Depth = 4.62" for 100-year_current event
Inflow = 9.40 cfs @ 12.23 hrs, Volume= 40,709 cf
Outflow = 9.17 cfs @ 12.30 hrs, Volume= 40,709 cf, Atten= 2%, Lag= 4.3 min
Routed to Pond 38P : Basin 3 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.96 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 1.18 fps, Avg. Travel Time= 5.9 min

Peak Storage= 1,297 cf @ 12.26 hrs
Average Depth at Peak Storage= 1.02' , Surface Width= 6.10'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 55.69 cfs

0.00' x 2.00' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 418.0' Slope= 0.0251 '/'
Inlet Invert= 158.50', Outlet Invert= 148.00'





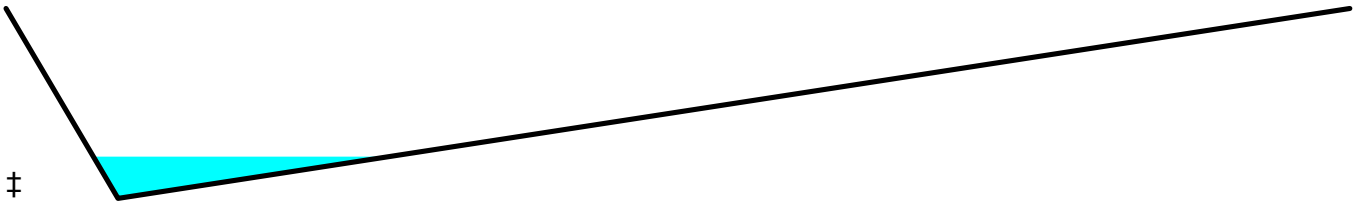
Summary for Reach 39R: DA 1A Central Swale A

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 2.19" for 100-year_current event
Inflow = 2.61 cfs @ 12.25 hrs, Volume= 13,501 cf
Outflow = 1.67 cfs @ 12.71 hrs, Volume= 13,501 cf, Atten= 36%, Lag= 28.1 min
Routed to Reach 41R : DA 1A Central Swale B

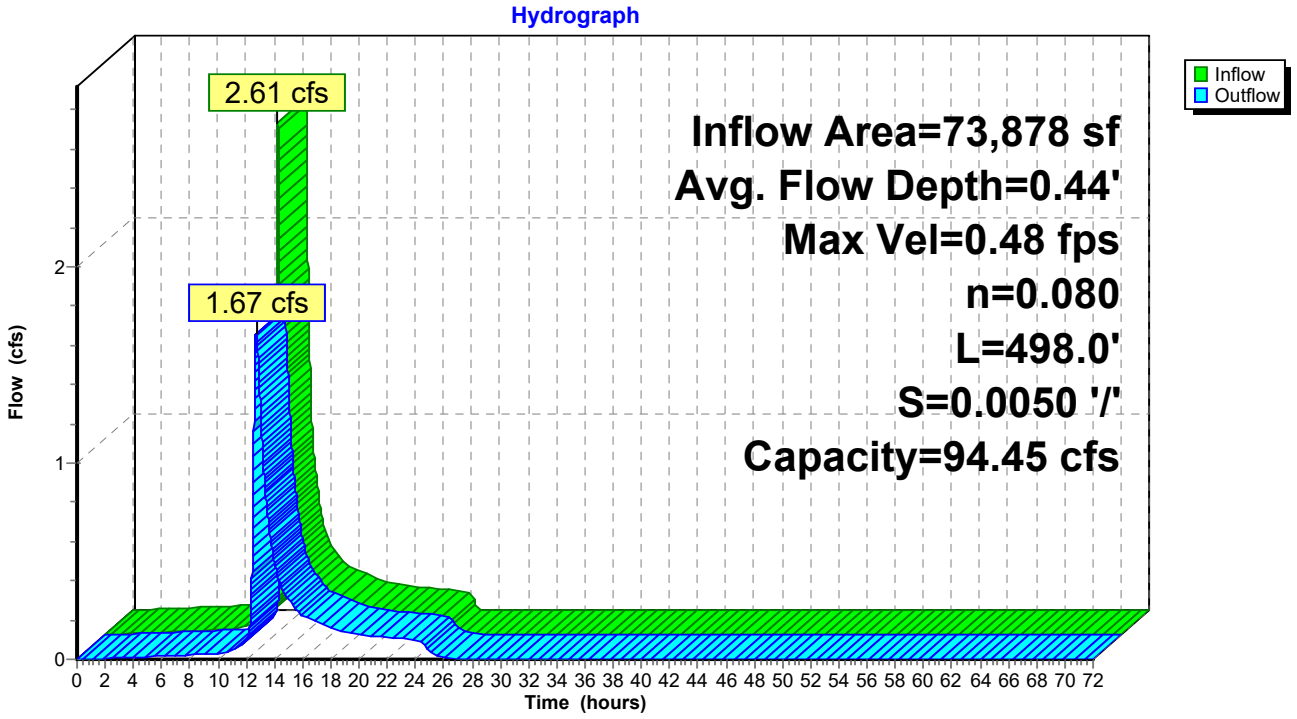
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.48 fps, Min. Travel Time= 17.4 min
Avg. Velocity = 0.17 fps, Avg. Travel Time= 49.7 min

Peak Storage= 1,737 cf @ 12.43 hrs
Average Depth at Peak Storage= 0.44' , Surface Width= 15.85'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 94.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 498.0' Slope= 0.0050 '/'
Inlet Invert= 171.00', Outlet Invert= 168.50'



‡



Summary for Reach 41R: DA 1A Central Swale B

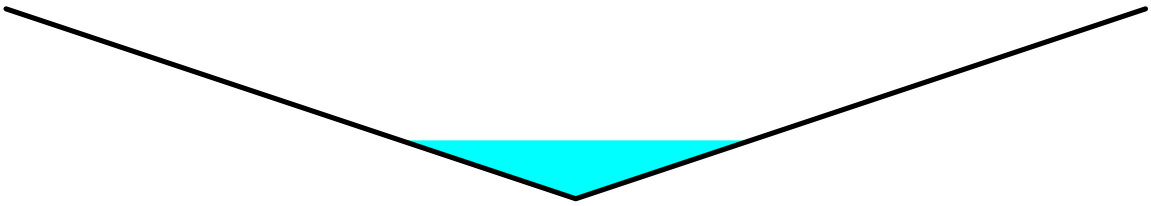
[62] Hint: Exceeded Reach 39R OUTLET depth by 0.23' @ 12.84 hrs

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 2.19" for 100-year_current event
Inflow = 1.67 cfs @ 12.71 hrs, Volume= 13,501 cf
Outflow = 1.66 cfs @ 12.78 hrs, Volume= 13,501 cf, Atten= 1%, Lag= 4.0 min
Routed to Reach 30R : DA1A West Swale

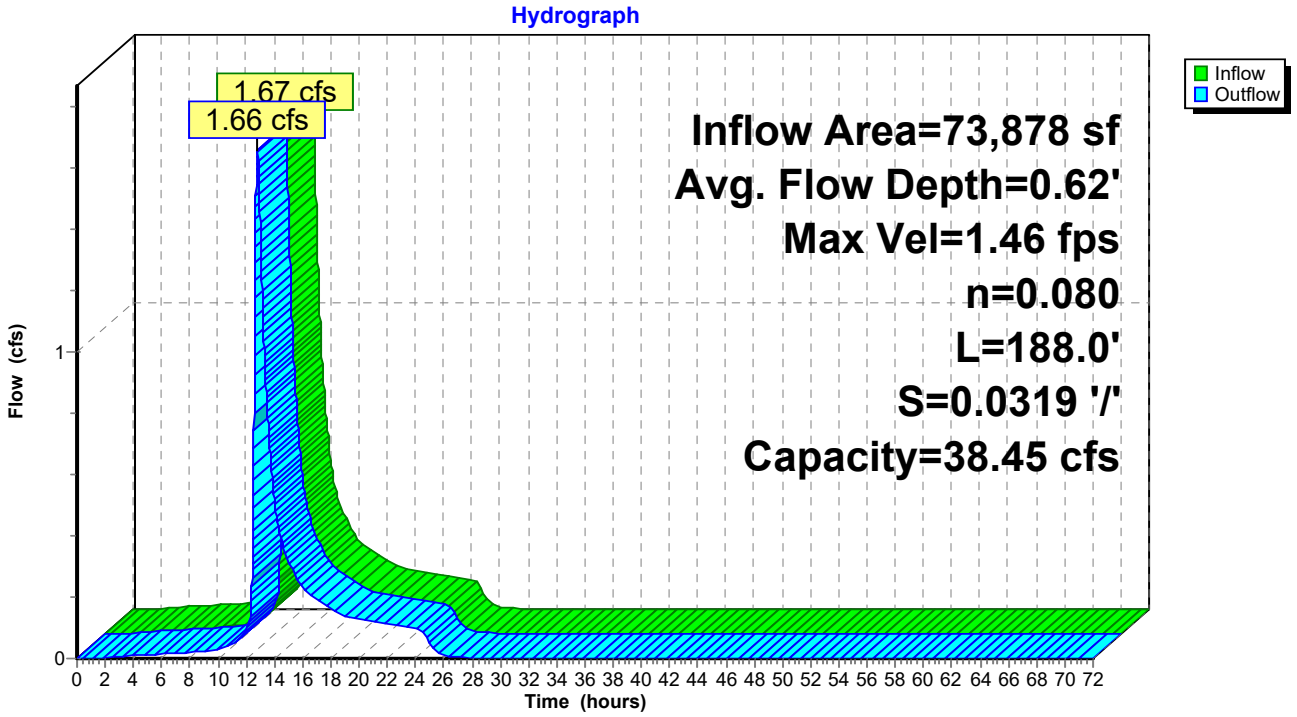
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.46 fps, Min. Travel Time= 2.1 min
Avg. Velocity = 0.52 fps, Avg. Travel Time= 6.0 min

Peak Storage= 213 cf @ 12.75 hrs
Average Depth at Peak Storage= 0.62' , Surface Width= 3.69'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 38.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 188.0' Slope= 0.0319 '/'
Inlet Invert= 168.50', Outlet Invert= 162.50'



Reach 41R: DA 1A Central Swale B



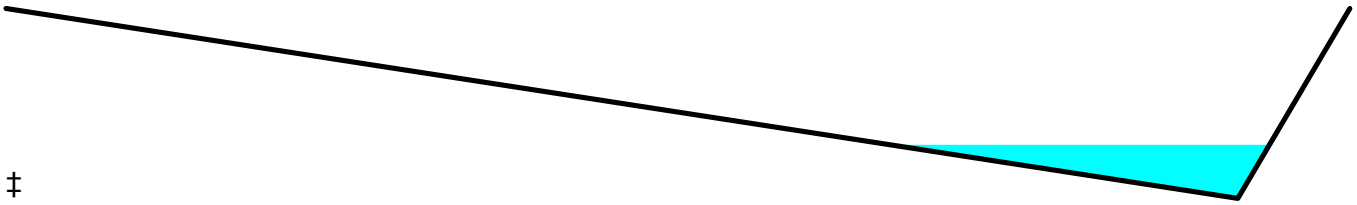
Summary for Reach 42R: DA4 East Swale

Inflow Area = 37,810 sf, 57.37% Impervious, Inflow Depth = 5.93" for 100-year_current event
Inflow = 5.52 cfs @ 12.11 hrs, Volume= 18,673 cf
Outflow = 5.24 cfs @ 12.16 hrs, Volume= 18,673 cf, Atten= 5%, Lag= 3.0 min
Routed to Pond 39P : Basin 4 Forebay

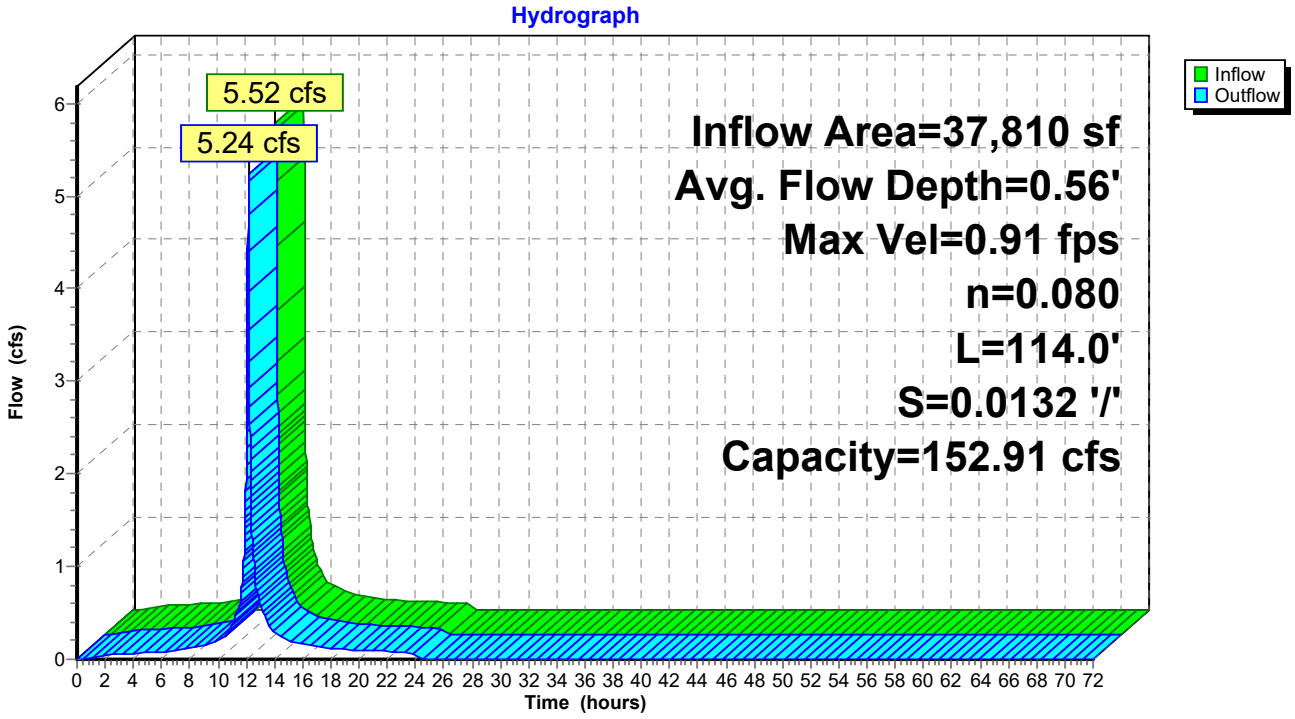
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.91 fps, Min. Travel Time= 2.1 min
Avg. Velocity = 0.35 fps, Avg. Travel Time= 5.5 min

Peak Storage= 655 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.56' , Surface Width= 20.34'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 152.91 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 114.0' Slope= 0.0132 '/'
Inlet Invert= 159.50', Outlet Invert= 158.00'



‡



Summary for Reach 43R: DA4 Roadside swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 6.54" for 100-year_current event
Inflow = 8.23 cfs @ 12.27 hrs, Volume= 38,085 cf
Outflow = 8.17 cfs @ 12.29 hrs, Volume= 38,085 cf, Atten= 1%, Lag= 1.1 min
Routed to Reach 44R : DA4 Culvert

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.71 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 0.77 fps, Avg. Travel Time= 2.2 min

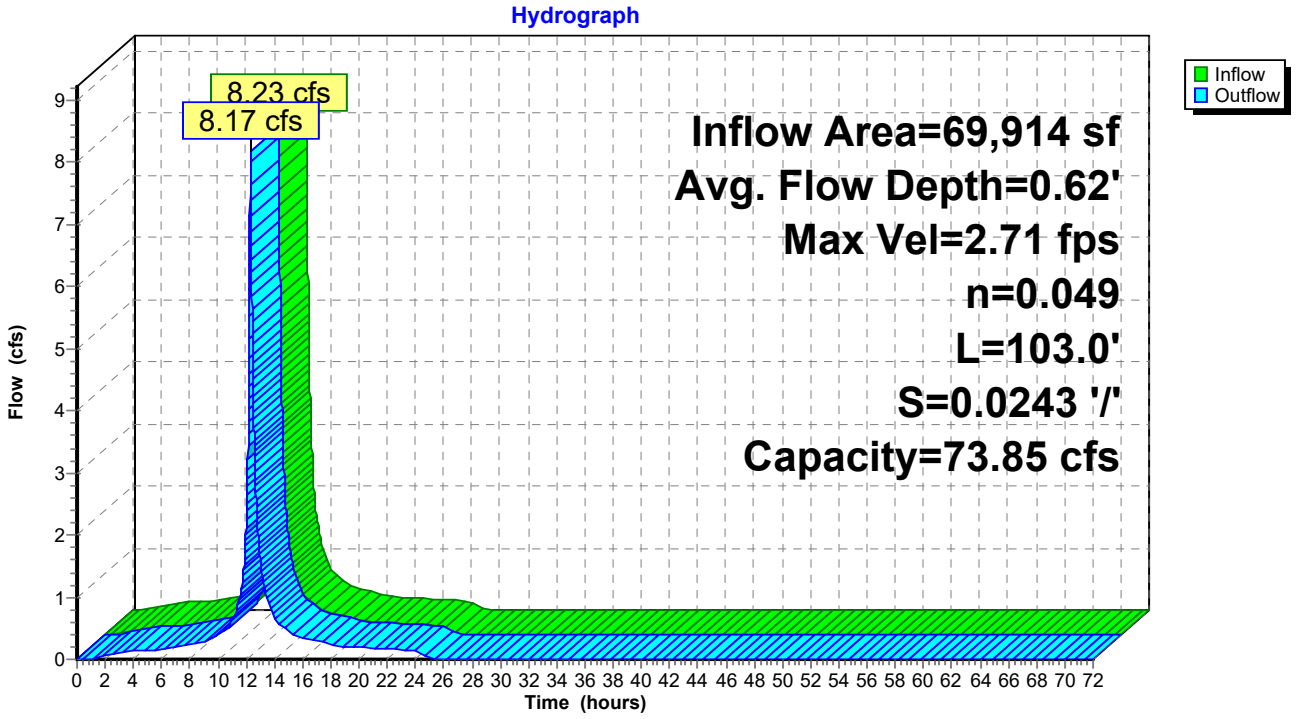
Peak Storage= 310 cf @ 12.28 hrs
Average Depth at Peak Storage= 0.62' , Surface Width= 6.72'
Bank-Full Depth= 1.80' Flow Area= 15.1 sf, Capacity= 73.85 cfs

3.00' x 1.80' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 13.80'
Length= 103.0' Slope= 0.0243 '/'
Inlet Invert= 160.20', Outlet Invert= 157.70'



‡

Reach 43R: DA4 Roadside swale



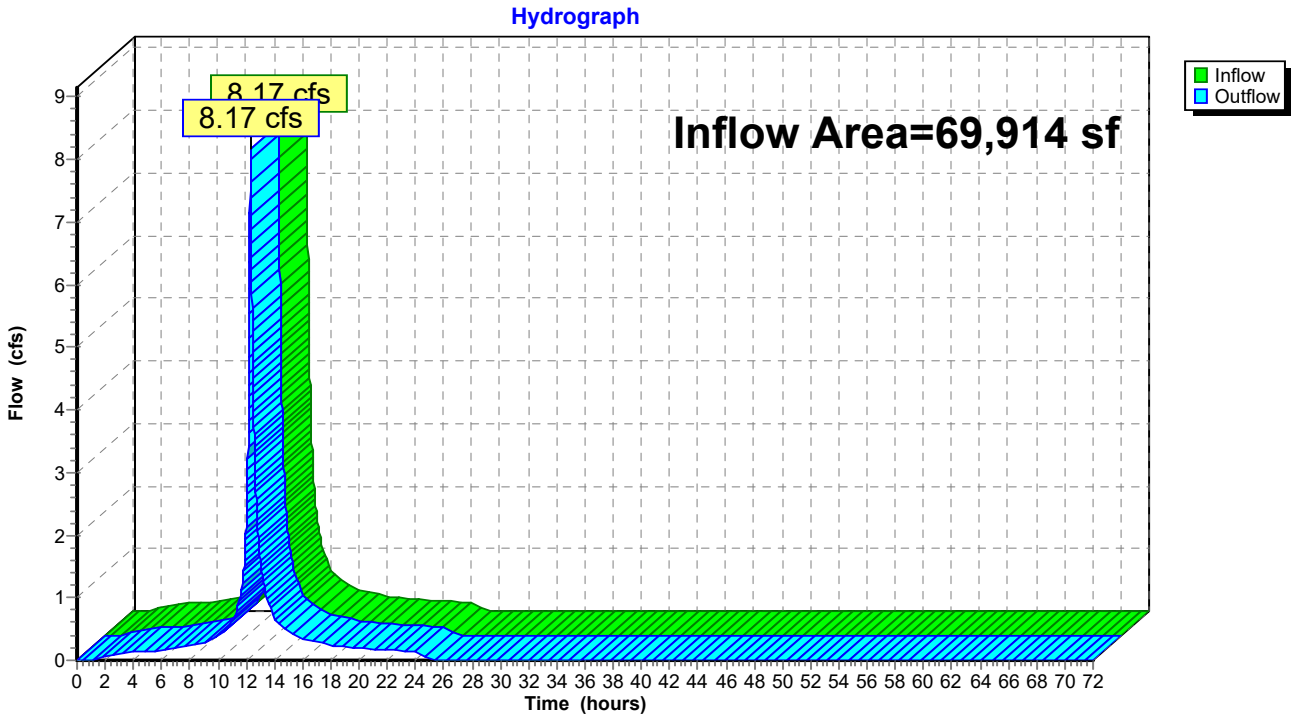
Summary for Reach 44R: DA4 Culvert

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 6.54" for 100-year_current event
Inflow = 8.17 cfs @ 12.29 hrs, Volume= 38,085 cf
Outflow = 8.17 cfs @ 12.29 hrs, Volume= 38,085 cf, Atten= 0%, Lag= 0.0 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach 44R: DA4 Culvert

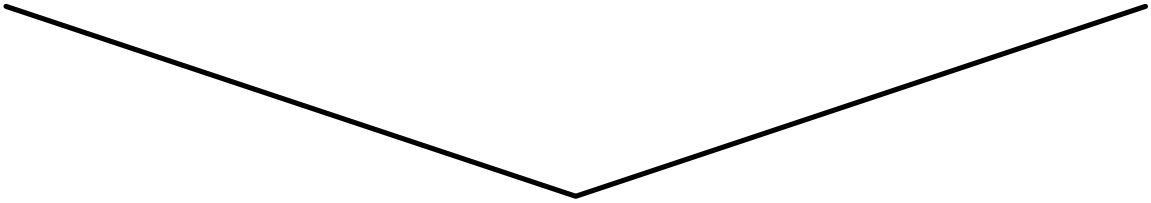


Summary for Reach 45R: DA2B Road Swale

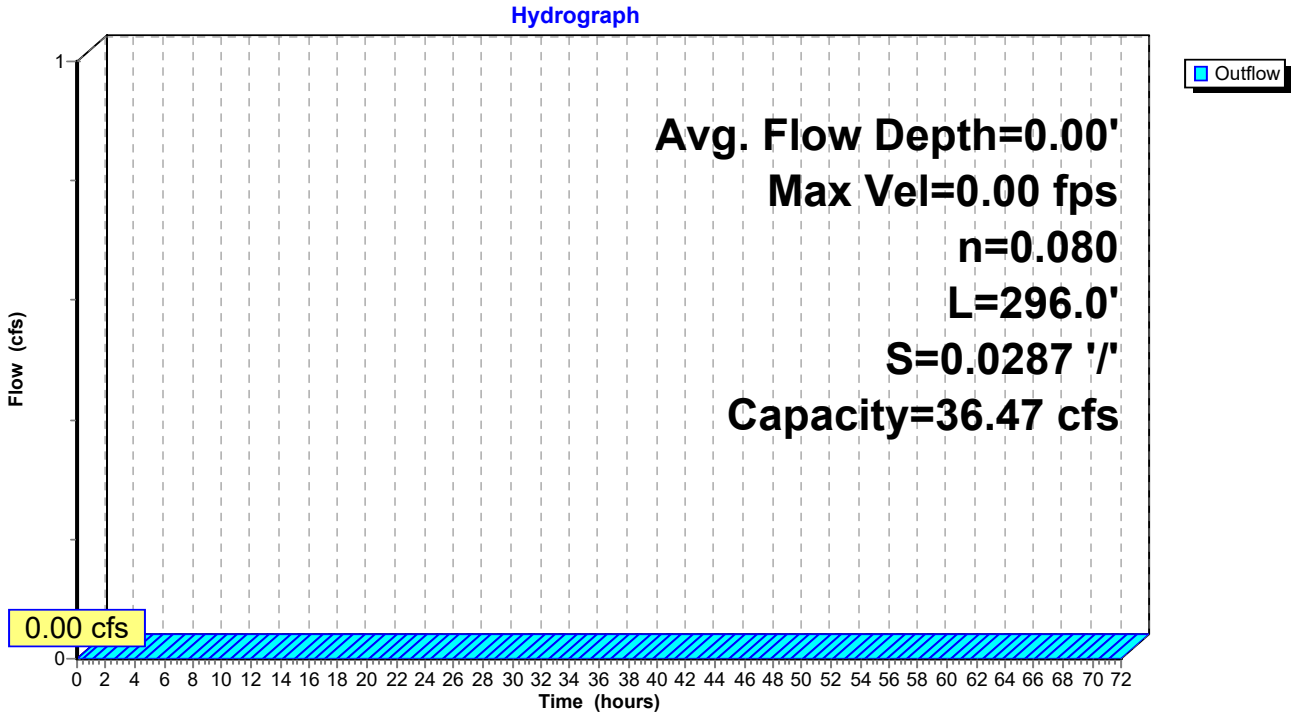
[43] Hint: Has no inflow (Outflow=Zero)

Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 36.47 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 296.0' Slope= 0.0287 '/'
Inlet Invert= 171.00', Outlet Invert= 162.50'



Reach 45R: DA2B Road Swale



Summary for Pond 15P: Basin 1A Forebay

Inflow Area = 510,150 sf, 6.82% Impervious, Inflow Depth = 2.23" for 100-year_current event
Inflow = 9.41 cfs @ 12.83 hrs, Volume= 94,992 cf
Outflow = 9.41 cfs @ 12.84 hrs, Volume= 91,755 cf, Atten= 0%, Lag= 0.5 min
Primary = 9.41 cfs @ 12.84 hrs, Volume= 91,755 cf
Routed to Pond 48P : Basin 1A Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 159.14' @ 12.84 hrs Surf.Area= 1,881 sf Storage= 3,848 cf

Plug-Flow detention time= 40.6 min calculated for 91,755 cf (97% of inflow)
Center-of-Mass det. time= 20.3 min (948.0 - 927.8)

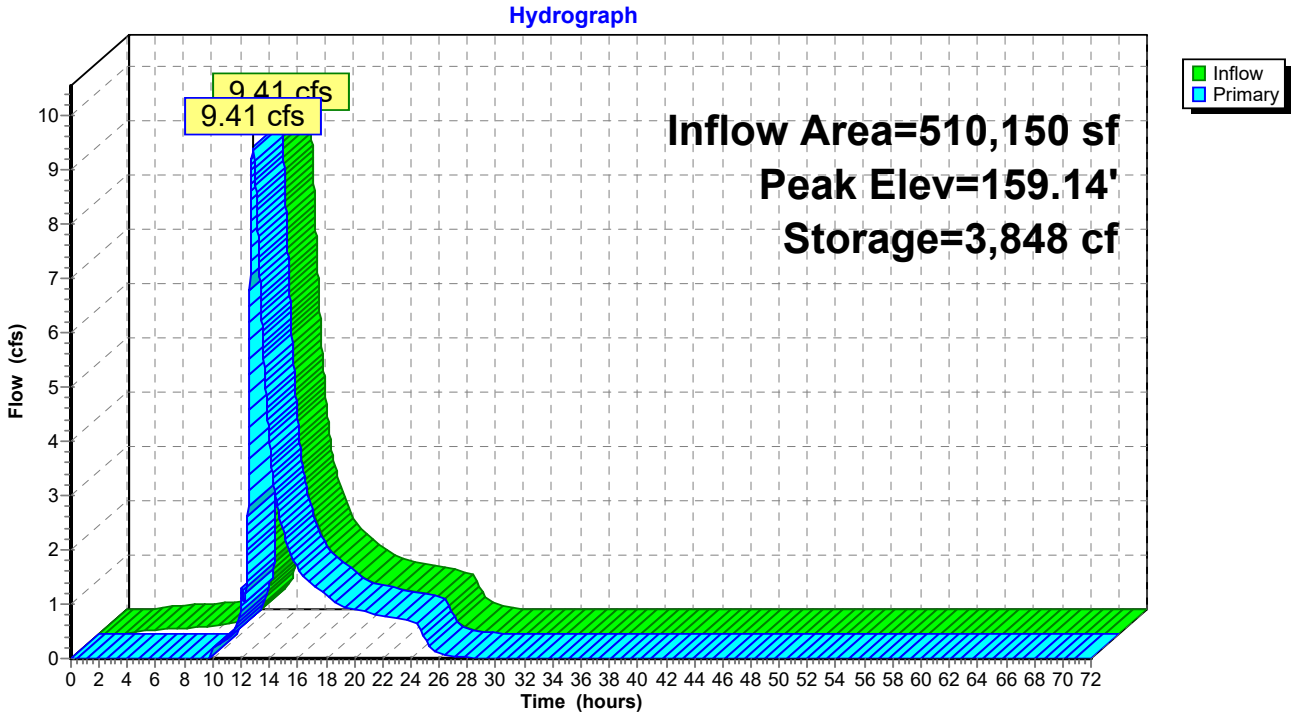
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	3,964 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	662	0	0
156.20	723	138	138
156.70	885	402	540
157.20	1,062	487	1,027
157.70	1,253	579	1,606
158.20	1,458	678	2,284
158.70	1,677	784	3,067
159.20	1,910	897	3,964

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.80'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Primary	159.00'	**25.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=9.40 cfs @ 12.84 hrs HW=159.14' (Free Discharge)
- **2=Culvert** (Passes 6.08 cfs of 17.46 cfs potential flow)
  - **1=Orifice/Grate** (Weir Controls 6.08 cfs @ 1.90 fps)
- **3=Broad-Crested Rectangular Weir** (Weir Controls 3.33 cfs @ 0.94 fps)

Pond 15P: Basin 1A Forebay



Summary for Pond 18P: Basin 1B Forebay

Inflow Area = 114,201 sf, 89.03% Impervious, Inflow Depth = 8.30" for 100-year_current event
Inflow = 16.87 cfs @ 12.26 hrs, Volume= 78,951 cf
Outflow = 11.07 cfs @ 12.38 hrs, Volume= 68,942 cf, Atten= 34%, Lag= 7.1 min
Primary = 11.07 cfs @ 12.38 hrs, Volume= 68,942 cf
Routed to Pond 43P : Basin 1B Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 159.47' @ 12.38 hrs Surf.Area= 5,695 sf Storage= 15,122 cf

Plug-Flow detention time= 130.4 min calculated for 68,942 cf (87% of inflow)
Center-of-Mass det. time= 64.8 min (825.9 - 761.1)

Volume	Invert	Avail.Storage	Storage Description
#1	155.98'	18,291 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

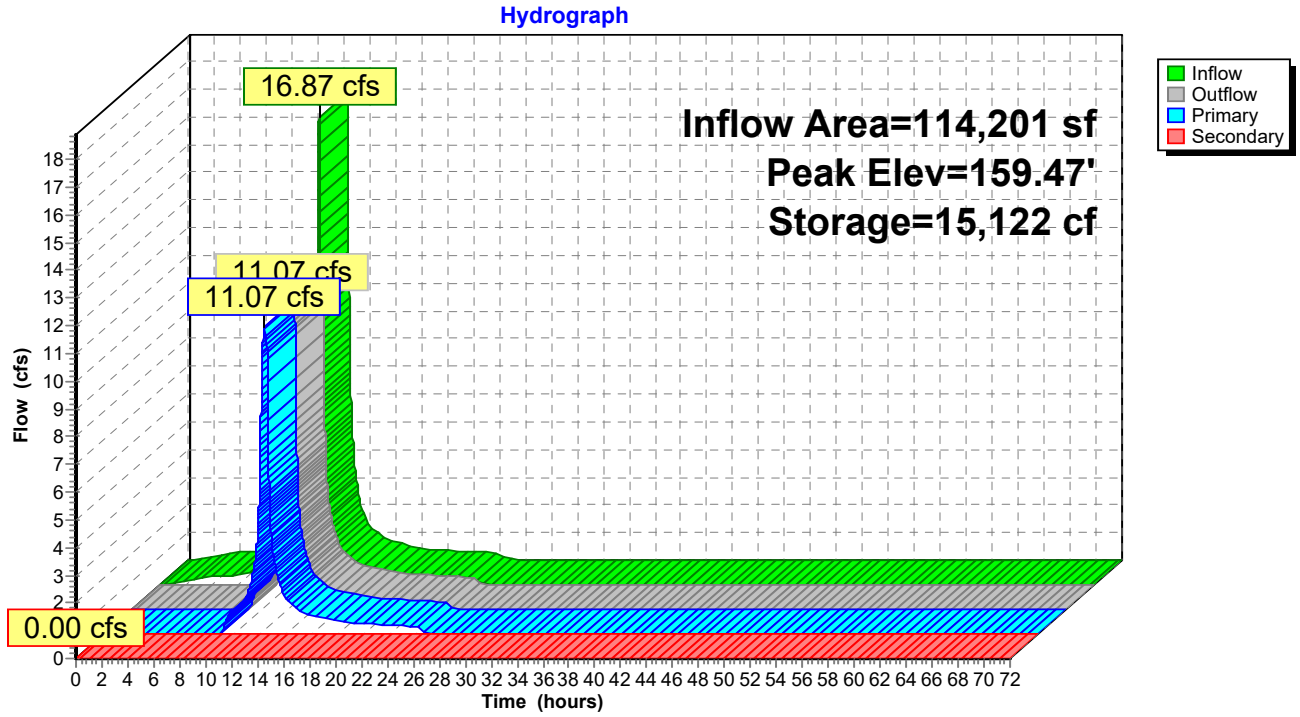
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.98	3,096	0	0
156.00	3,108	62	62
156.50	3,440	1,637	1,699
157.00	3,785	1,806	3,505
157.50	4,145	1,983	5,488
158.00	4,518	2,166	7,654
158.50	4,906	2,356	10,010
159.00	5,308	2,554	12,563
159.50	5,724	2,758	15,321
160.00	6,154	2,970	18,291

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	159.50'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=11.07 cfs @ 12.38 hrs HW=159.47' (Free Discharge)
└**2=Culvert** (Inlet Controls 11.07 cfs @ 6.26 fps)
└**1=Orifice/Grate** (Passes 11.07 cfs of 29.22 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 18P: Basin 1B Forebay



Summary for Pond 26P: Basin 2A Forebay

Inflow Area = 114,388 sf, 72.58% Impervious, Inflow Depth = 7.04" for 100-year_current event
Inflow = 11.66 cfs @ 12.17 hrs, Volume= 67,081 cf
Outflow = 9.03 cfs @ 12.34 hrs, Volume= 59,835 cf, Atten= 23%, Lag= 10.2 min
Primary = 8.49 cfs @ 12.34 hrs, Volume= 59,553 cf
Routed to Pond 44P : Basin 2A Bioretention
Secondary = 0.54 cfs @ 12.34 hrs, Volume= 281 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.35' @ 12.34 hrs Surf.Area= 5,440 sf Storage= 10,598 cf

Plug-Flow detention time= 118.0 min calculated for 59,826 cf (89% of inflow)
Center-of-Mass det. time= 59.2 min (825.5 - 766.3)

Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	11,435 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

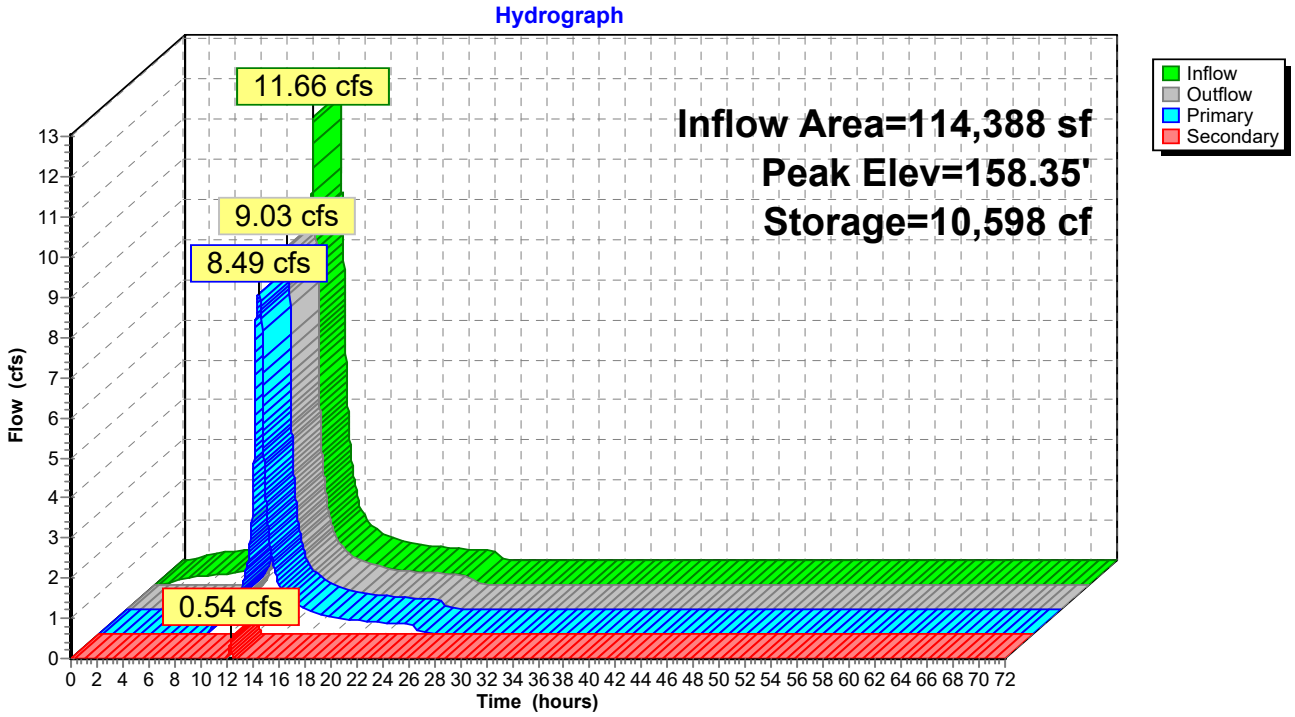
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	3,639	0	0
156.50	3,996	1,909	1,909
157.00	4,367	2,091	4,000
157.50	4,753	2,280	6,280
158.00	5,152	2,476	8,756
158.50	5,566	2,680	11,435

Device	Routing	Invert	Outlet Devices
#1	Secondary	158.30'	**20.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32
#2	Device 3	157.70'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Primary	156.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.00' S= 0.0417 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=8.49 cfs @ 12.34 hrs HW=158.35' (Free Discharge)
└**3=Culvert** (Inlet Controls 8.49 cfs @ 4.80 fps)
└**2=Orifice/Grate** (Passes 8.49 cfs of 16.06 cfs potential flow)

Secondary OutFlow Max=0.53 cfs @ 12.34 hrs HW=158.35' (Free Discharge)
└**1=Broad-Crested Rectangular Weir** (Weir Controls 0.53 cfs @ 0.55 fps)

Pond 26P: Basin 2A Forebay



Summary for Pond 38P: Basin 3 Forebay

Inflow Area = 106,766 sf, 0.94% Impervious, Inflow Depth = 4.66" for 100-year_current event
Inflow = 9.22 cfs @ 12.30 hrs, Volume= 41,463 cf
Outflow = 7.60 cfs @ 12.40 hrs, Volume= 36,005 cf, Atten= 18%, Lag= 5.9 min
Primary = 7.60 cfs @ 12.40 hrs, Volume= 36,005 cf
Routed to Pond 60P : Basin 3 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 146.03' @ 12.40 hrs Surf.Area= 4,590 sf Storage= 7,787 cf

Plug-Flow detention time= 101.7 min calculated for 36,000 cf (87% of inflow)
Center-of-Mass det. time= 37.7 min (882.9 - 845.2)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	18,417 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

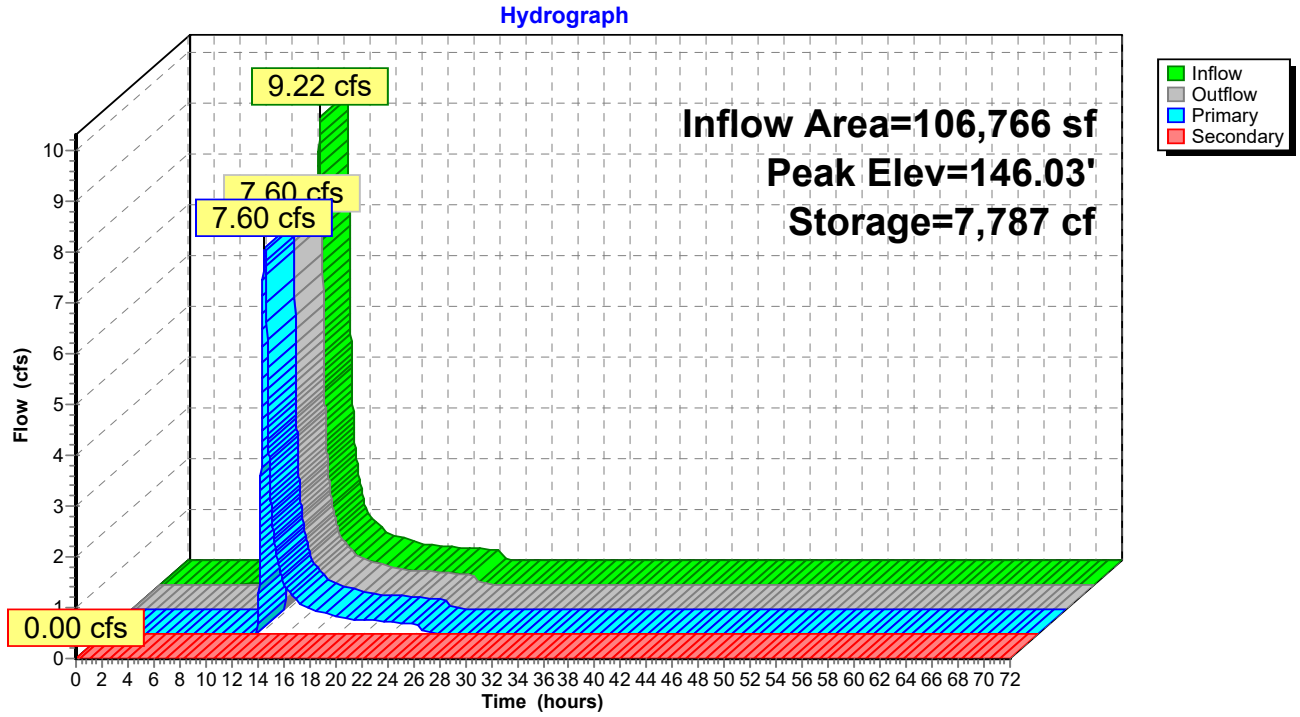
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.00	3,115	0	0
144.50	3,456	1,643	1,643
145.00	3,812	1,817	3,460
145.50	4,182	1,999	5,458
146.00	4,565	2,187	7,645
146.50	4,963	2,382	10,027
147.00	5,375	2,585	12,612
147.50	5,802	2,794	15,406
148.00	6,242	3,011	18,417

Device	Routing	Invert	Outlet Devices
#1	Device 2	145.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	144.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 144.00' / 143.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=7.60 cfs @ 12.40 hrs HW=146.03' (Free Discharge)
↑**2=Culvert** (Inlet Controls 7.60 cfs @ 4.30 fps)
↑**1=Orifice/Grate** (Passes 7.60 cfs of 11.92 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
↑**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 38P: Basin 3 Forebay



Summary for Pond 39P: Basin 4 Forebay

[62] Hint: Exceeded Reach 42R OUTLET depth by 0.11' @ 12.32 hrs

Inflow Area = 112,908 sf, 64.51% Impervious, Inflow Depth = 6.45" for 100-year_current event
Inflow = 10.51 cfs @ 12.28 hrs, Volume= 60,663 cf
Outflow = 10.14 cfs @ 12.30 hrs, Volume= 51,453 cf, Atten= 4%, Lag= 1.2 min
Primary = 10.14 cfs @ 12.30 hrs, Volume= 51,453 cf
Routed to Pond 51P : Basin 4 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.48' @ 12.30 hrs Surf.Area= 4,460 sf Storage= 11,250 cf

Plug-Flow detention time= 146.1 min calculated for 51,453 cf (85% of inflow)
Center-of-Mass det. time= 70.5 min (842.4 - 771.9)

Volume	Invert	Avail.Storage	Storage Description
#1	155.00'	15,703 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

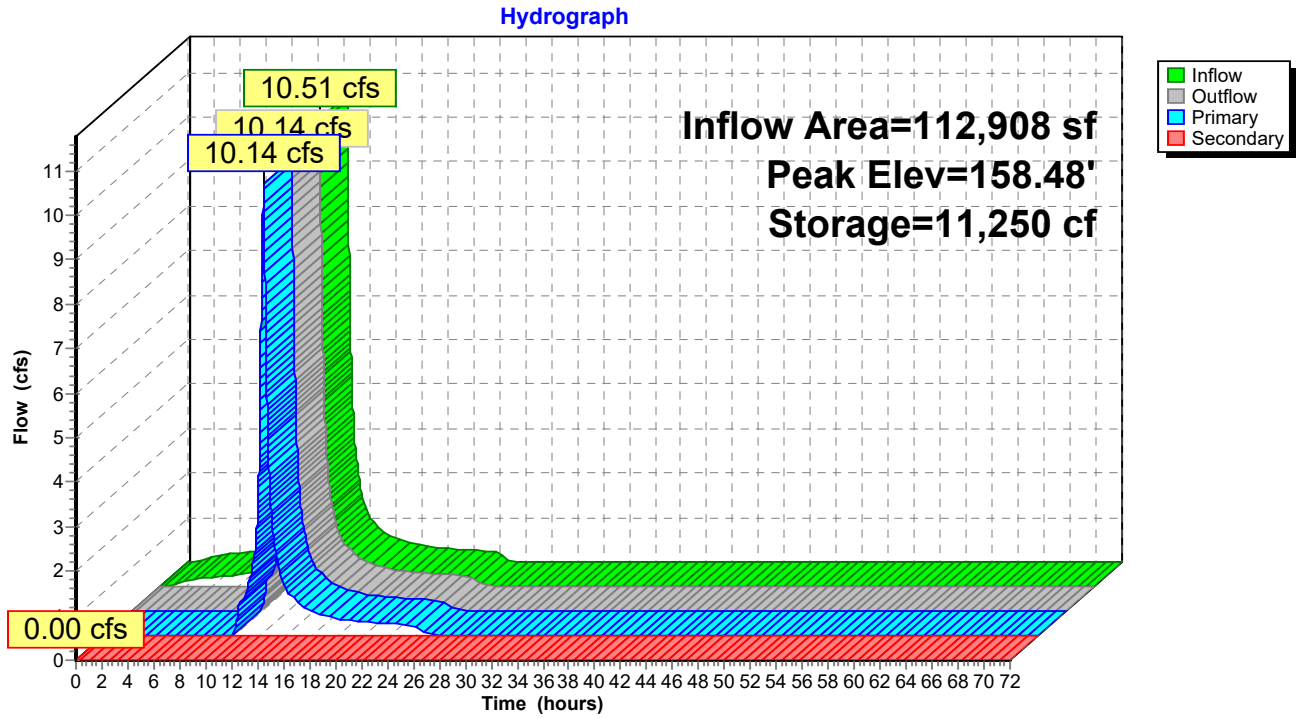
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.00	2,116	0	0
155.40	2,360	895	895
155.90	2,665	1,256	2,151
156.40	2,983	1,412	3,563
156.90	3,316	1,575	5,138
157.40	3,663	1,745	6,883
157.50	3,734	370	7,253
157.90	4,024	1,552	8,804
158.40	4,400	2,106	10,910
158.90	4,789	2,297	13,208
159.40	5,192	2,495	15,703

Device	Routing	Invert	Outlet Devices
#1	Primary	155.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 155.00' / 154.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	158.00'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	158.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=10.13 cfs @ 12.30 hrs HW=158.48' (Free Discharge)
└**1=Culvert** (Passes 10.13 cfs of 11.09 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 10.13 cfs @ 2.26 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 39P: Basin 4 Forebay



Summary for Pond 43P: Basin 1B Bioretention

[79] Warning: Submerged Pond 18P Primary device # 2 INLET by 2.01'

Inflow Area = 126,097 sf, 87.23% Impervious, Inflow Depth = 7.26" for 100-year_current event
Inflow = 11.49 cfs @ 12.38 hrs, Volume= 76,309 cf
Outflow = 11.31 cfs @ 12.46 hrs, Volume= 56,323 cf, Atten= 2%, Lag= 4.9 min
Primary = 11.31 cfs @ 12.46 hrs, Volume= 56,323 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.01' @ 12.46 hrs Surf.Area= 7,778 sf Storage= 23,846 cf

Plug-Flow detention time= 161.7 min calculated for 56,323 cf (74% of inflow)
Center-of-Mass det. time= 67.0 min (885.8 - 818.9)

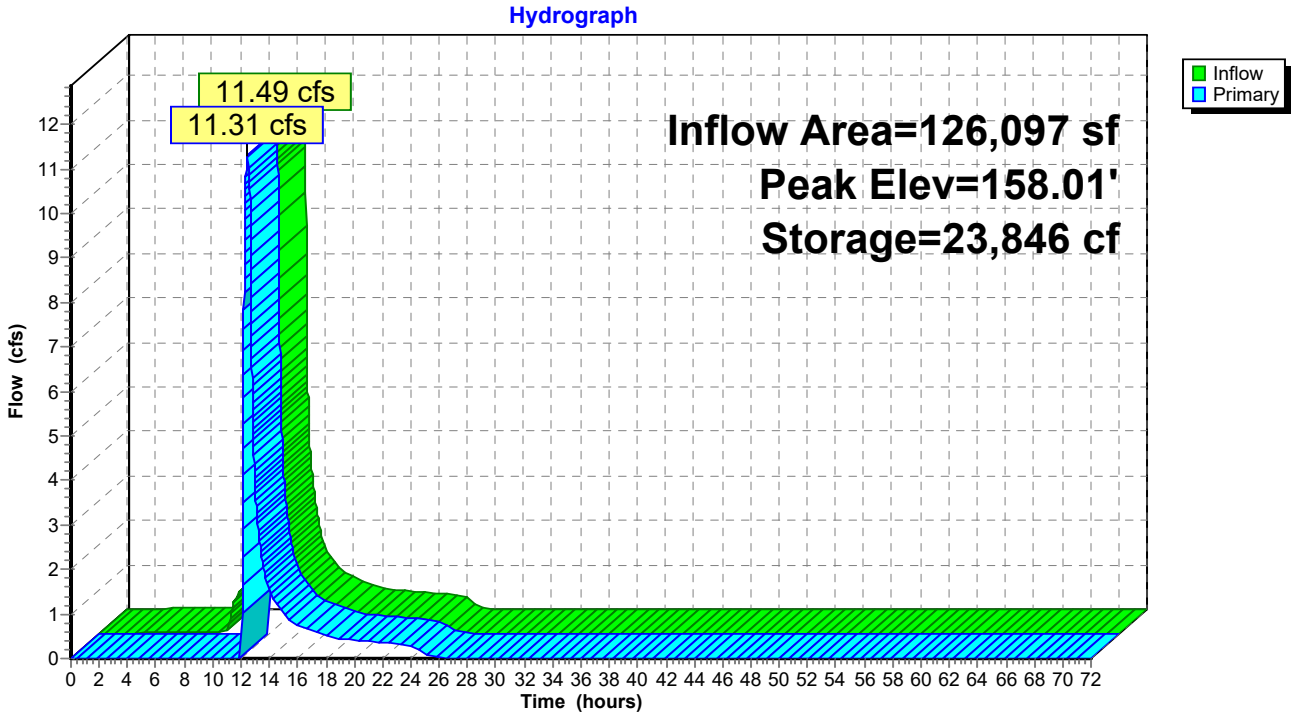
Volume	Invert	Avail.Storage	Storage Description
#1	153.98'	24,528 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.98	4,198	0	0
154.00	4,213	84	84
154.50	4,608	2,205	2,289
155.00	5,017	2,406	4,696
155.50	5,440	2,614	7,310
156.00	5,877	2,829	10,139
156.50	6,328	3,051	13,190
157.00	6,793	3,280	16,471
157.50	7,272	3,516	19,987
158.00	7,768	3,760	23,747
158.10	7,850	781	24,528

Device	Routing	Invert	Outlet Devices
#1	Device 2	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	154.00'	**24.0" Round Culvert** L= 32.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 152.00' S= 0.0625 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=11.31 cfs @ 12.46 hrs HW=158.01' (Free Discharge)
↑**2=Culvert** (Passes 11.31 cfs of 20.73 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 11.31 cfs @ 2.34 fps)

Pond 43P: Basin 1B Bioretention



Summary for Pond 44P: Basin 2A Bioretention

[79] Warning: Submerged Pond 26P Primary device # 3 INLET by 1.93'

Inflow Area = 127,935 sf, 75.49% Impervious, Inflow Depth = 6.54" for 100-year_current event
Inflow = 10.92 cfs @ 12.09 hrs, Volume= 69,758 cf
Outflow = 8.73 cfs @ 12.48 hrs, Volume= 47,074 cf, Atten= 20%, Lag= 23.9 min
Primary = 8.73 cfs @ 12.48 hrs, Volume= 47,074 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.93' @ 12.48 hrs Surf.Area= 8,875 sf Storage= 26,402 cf

Plug-Flow detention time= 197.1 min calculated for 47,074 cf (67% of inflow)
Center-of-Mass det. time= 89.4 min (902.0 - 812.6)

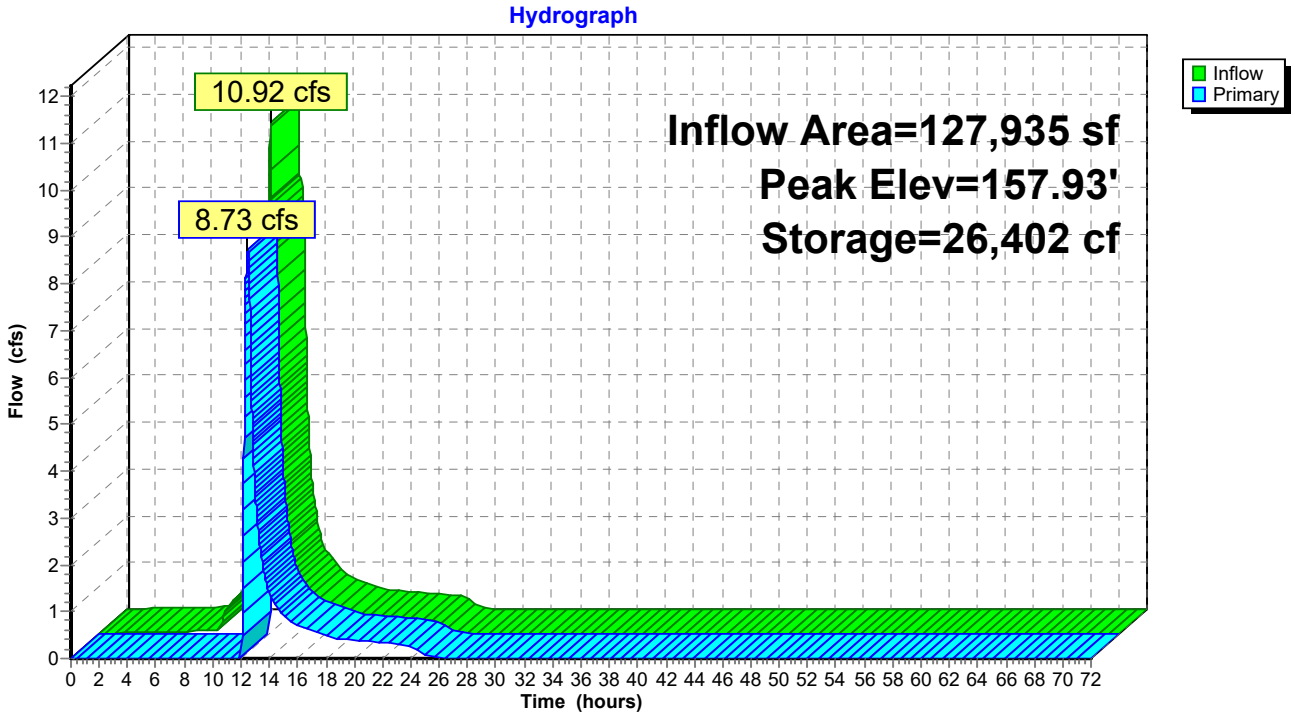
Volume	Invert	Avail.Storage	Storage Description
#1	154.00'	27,017 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
154.00	4,692	0	0
154.50	5,178	2,468	2,468
155.00	5,678	2,714	5,182
155.50	6,192	2,968	8,149
156.00	6,718	3,228	11,377
156.50	7,258	3,494	14,871
157.00	7,810	3,767	18,638
157.50	8,376	4,047	22,684
158.00	8,955	4,333	27,017

Device	Routing	Invert	Outlet Devices
#1	Primary	154.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 153.00' S= 0.0417 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=8.72 cfs @ 12.48 hrs HW=157.93' (Free Discharge)
↑**1=Culvert** (Passes 8.72 cfs of 11.98 cfs potential flow)
↑**2=Orifice/Grate** (Weir Controls 8.72 cfs @ 2.15 fps)

Pond 44P: Basin 2A Bioretention



Summary for Pond 45P: Basin 2A Infiltration

[79] Warning: Submerged Pond 44P Primary device # 1 INLET by 0.07'

Inflow Area = 177,071 sf, 82.29% Impervious, Inflow Depth = 5.72" for 100-year_current event
Inflow = 11.00 cfs @ 12.09 hrs, Volume= 84,369 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.07' @ 71.97 hrs Surf.Area= 27,834 sf Storage= 84,368 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

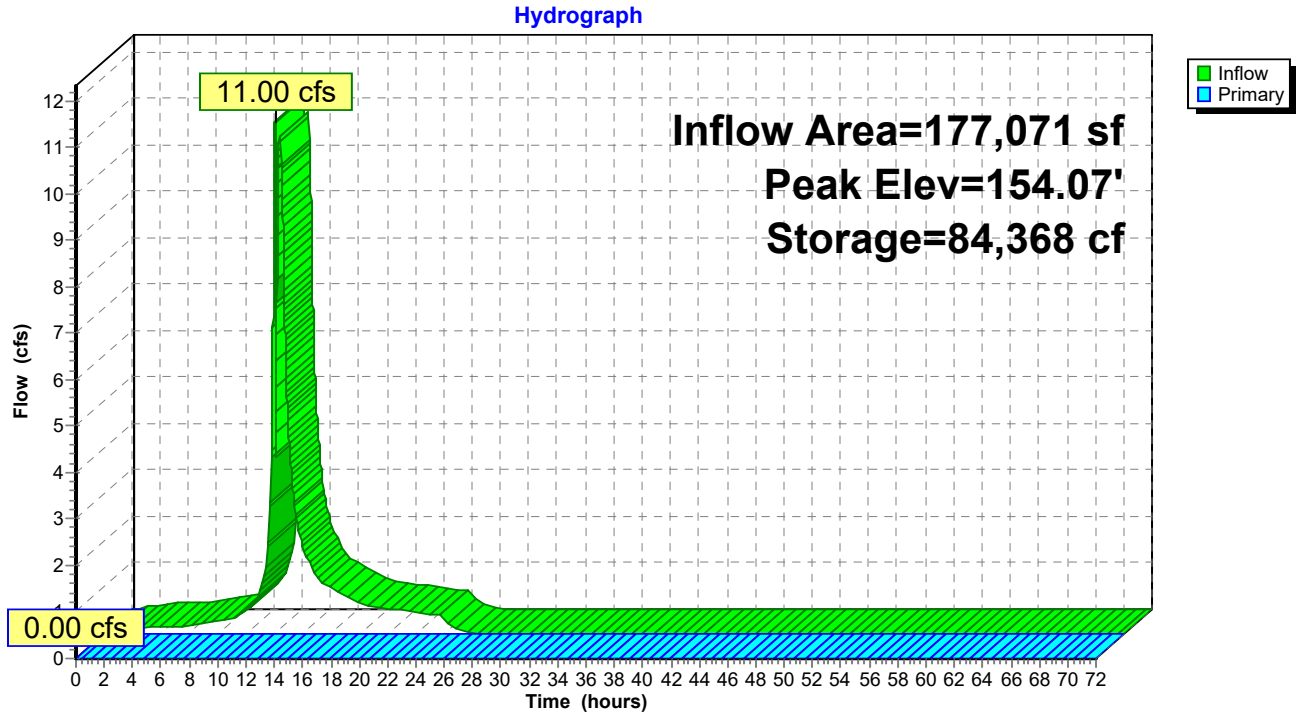
Volume	Invert	Avail.Storage	Storage Description
#1	150.50'	211,473 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.50	13,884	0	0
151.00	21,491	8,844	8,844
151.50	22,475	10,992	19,835
152.00	23,686	11,540	31,376
152.50	24,504	12,048	43,423
153.00	25,550	12,514	55,937
153.50	26,612	13,041	68,977
154.00	27,691	13,576	82,553
154.50	28,785	14,119	96,672
155.00	29,903	14,672	111,344
155.50	31,034	15,234	126,578
156.00	32,184	15,805	142,383
156.50	33,348	16,383	158,766
157.00	34,530	16,970	175,735
157.50	35,731	17,565	193,300
158.00	36,958	18,172	211,473

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.50' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 45P: Basin 2A Infiltration



Summary for Pond 46P: Basin 1B Infiltration

[79] Warning: Submerged Pond 43P Primary device # 2 OUTLET by 0.13'

Inflow Area = 156,153 sf, 89.68% Impervious, Inflow Depth = 6.07" for 100-year_current event
Inflow = 12.48 cfs @ 12.46 hrs, Volume= 78,964 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 152.13' @ 65.37 hrs Surf.Area= 22,591 sf Storage= 78,963 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

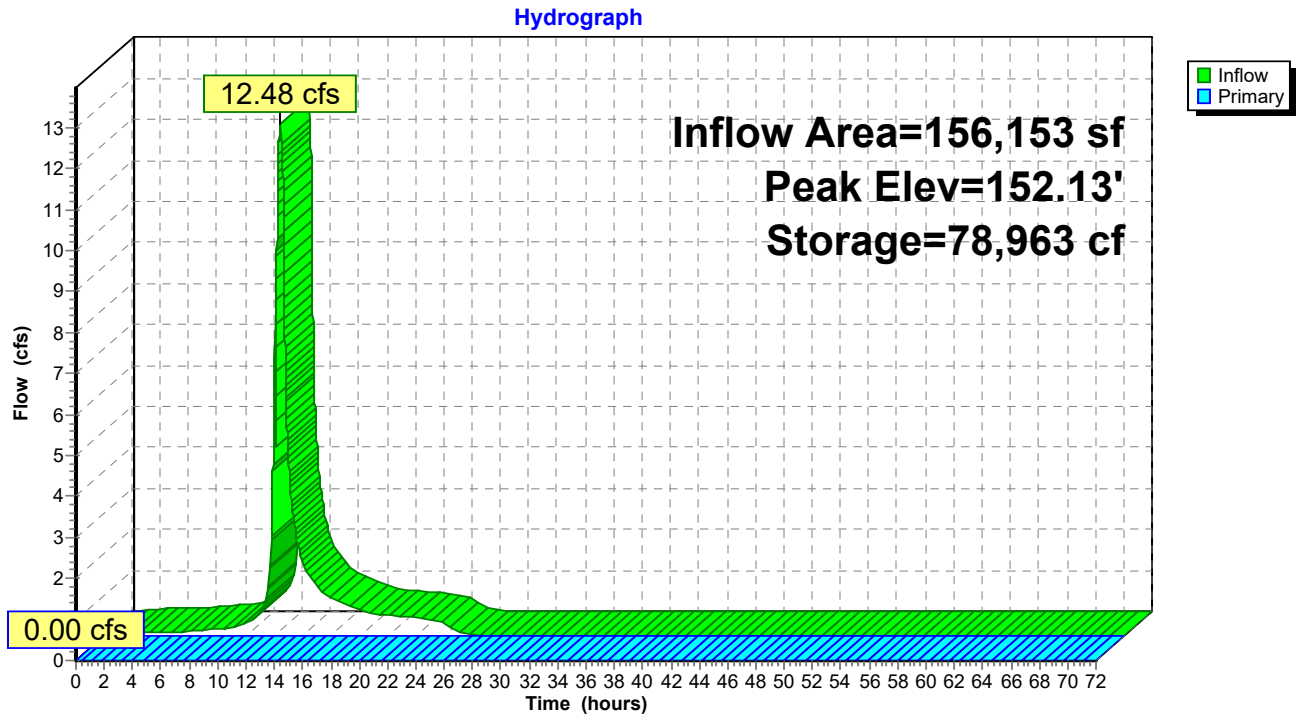
Volume	Invert	Avail.Storage	Storage Description
#1	147.98'	135,038 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.98	15,656	0	0
148.40	16,310	6,713	6,713
148.90	17,103	8,353	15,066
149.40	17,911	8,754	23,820
149.90	18,735	9,162	32,981
150.40	19,574	9,577	42,558
150.90	20,428	10,001	52,559
151.40	21,297	10,431	62,990
151.90	22,181	10,870	73,860
152.40	23,080	11,315	85,175
152.90	23,993	11,768	96,943
153.40	24,920	12,228	109,171
153.90	25,863	12,696	121,867
154.40	26,819	13,171	135,038

Device	Routing	Invert	Outlet Devices
#1	Primary	153.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.98' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 46P: Basin 1B Infiltration



Summary for Pond 48P: Basin 1A Infiltration Basin

Inflow Area = 562,771 sf, 15.53% Impervious, Inflow Depth = 2.80" for 100-year_current event
Inflow = 13.12 cfs @ 12.09 hrs, Volume= 131,393 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.83' @ 72.00 hrs Surf.Area= 32,850 sf Storage= 131,391 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

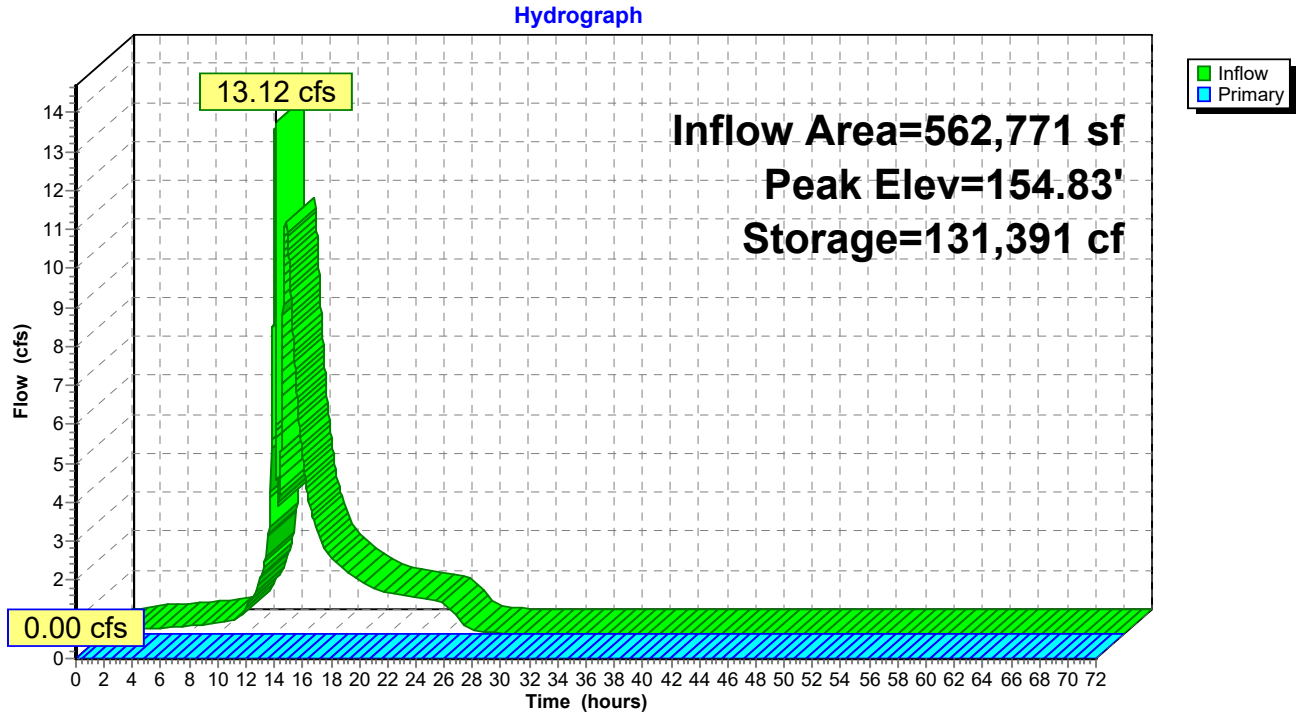
Volume	Invert	Avail.Storage	Storage Description
#1	150.00'	298,930 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.00	21,799	0	0
150.20	22,236	4,403	4,403
150.70	23,295	11,383	15,786
151.20	24,380	11,919	27,705
151.70	25,491	12,468	40,173
152.20	26,624	13,029	53,201
152.70	27,774	13,600	66,801
153.20	28,940	14,179	80,979
153.70	30,120	14,765	95,744
154.20	31,316	15,359	111,103
154.70	32,526	15,961	127,064
155.20	33,749	16,569	143,633
155.70	34,987	17,184	160,817
156.20	36,240	17,807	178,623
156.70	37,506	18,437	197,060
157.20	38,786	19,073	216,133
157.70	40,081	19,717	235,850
158.20	41,390	20,368	256,217
158.70	42,718	21,027	277,244
159.20	44,026	21,686	298,930

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**30.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' (Free Discharge)
↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 48P: Basin 1A Infiltration Basin



Summary for Pond 51P: Basin 4 Bioretention

[79] Warning: Submerged Pond 39P Primary device # 1 INLET by 1.99'

Inflow Area = 148,627 sf, 52.11% Impervious, Inflow Depth = 5.21" for 100-year_current event
Inflow = 11.18 cfs @ 12.30 hrs, Volume= 64,500 cf
Outflow = 10.44 cfs @ 12.36 hrs, Volume= 49,977 cf, Atten= 7%, Lag= 3.6 min
Primary = 10.44 cfs @ 12.36 hrs, Volume= 49,977 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 156.99' @ 12.36 hrs Surf.Area= 6,388 sf Storage= 17,569 cf

Plug-Flow detention time= 147.4 min calculated for 49,970 cf (77% of inflow)
Center-of-Mass det. time= 56.1 min (900.2 - 844.2)

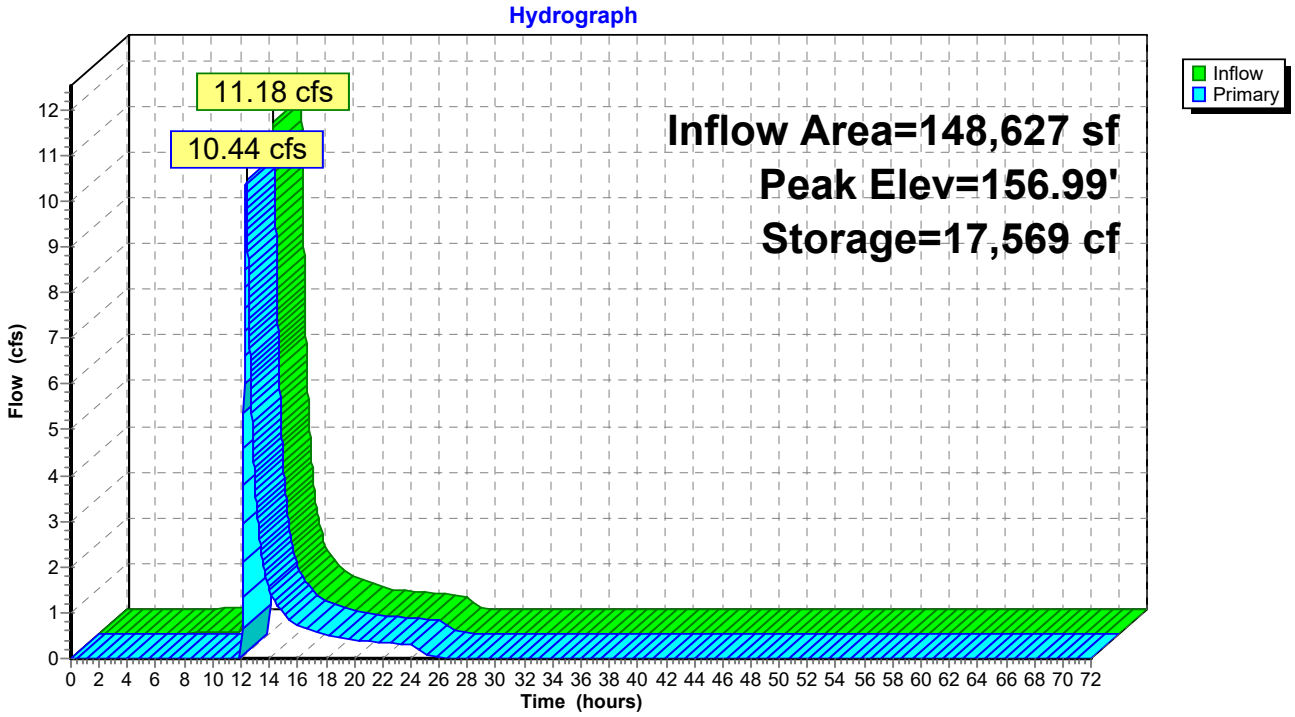
Volume	Invert	Avail.Storage	Storage Description
#1	153.00'	36,070 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.00	2,922	0	0
153.90	3,287	2,794	2,794
154.40	3,735	1,756	4,550
154.90	4,199	1,984	6,533
155.40	4,678	2,219	8,752
155.90	5,172	2,463	11,215
156.40	5,682	2,714	13,928
156.50	6,207	594	14,523
156.90	6,314	2,504	17,027
157.40	6,748	3,266	20,292
157.90	7,305	3,513	23,806
158.40	7,877	3,796	27,601
158.90	8,465	4,086	31,687
159.40	9,068	4,383	36,070

Device	Routing	Invert	Outlet Devices
#1	Device 2	156.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	153.00'	**24.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 153.00' / 152.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=10.42 cfs @ 12.36 hrs HW=156.99' (Free Discharge)
↑**2=Culvert** (Passes 10.42 cfs of 20.63 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 10.42 cfs @ 2.28 fps)

Pond 51P: Basin 4 Bioretention



Summary for Pond 52P: Basin 4 Infiltration

[81] Warning: Exceeded Pond 51P by 1.06' @ 68.78 hrs

Inflow Area = 180,774 sf, 56.17% Impervious, Inflow Depth = 4.69" for 100-year_current event
Inflow = 11.79 cfs @ 12.37 hrs, Volume= 70,602 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.56' @ 66.69 hrs Surf.Area= 19,075 sf Storage= 70,601 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

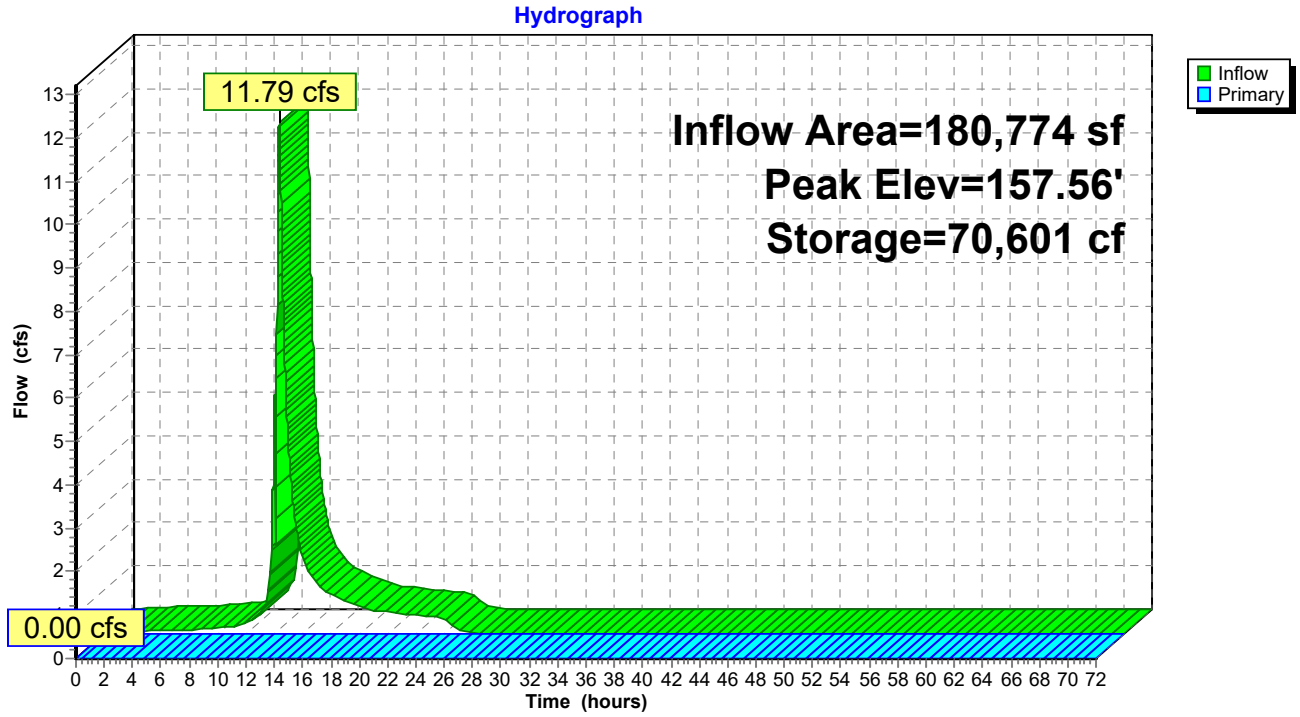
Volume	Invert	Avail.Storage	Storage Description
#1	152.40'	98,072 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
152.40	8,570	0	0
152.90	9,506	4,519	4,519
153.40	10,459	4,991	9,510
153.90	11,430	5,472	14,983
154.40	12,419	5,962	20,945
154.90	13,426	6,461	27,406
155.40	14,449	6,969	34,375
155.90	15,490	7,485	41,860
156.40	16,547	8,009	49,869
156.90	17,620	8,542	58,411
157.40	18,711	9,083	67,493
157.90	19,818	9,632	77,126
158.40	20,943	10,190	87,316
158.90	22,081	10,756	98,072

Device	Routing	Invert	Outlet Devices
#1	Primary	158.80'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.40' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 52P: Basin 4 Infiltration



Summary for Pond 60P: Basin 3 Bioretention

[81] Warning: Exceeded Pond 38P by 1.01' @ 13.31 hrs

Inflow Area = 110,642 sf, 4.41% Impervious, Inflow Depth = 4.22" for 100-year_current event
Inflow = 7.76 cfs @ 12.39 hrs, Volume= 38,926 cf
Outflow = 2.19 cfs @ 13.00 hrs, Volume= 21,946 cf, Atten= 72%, Lag= 36.6 min
Primary = 2.19 cfs @ 13.00 hrs, Volume= 21,946 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 146.67' @ 13.00 hrs Surf.Area= 6,498 sf Storage= 18,075 cf

Plug-Flow detention time= 253.4 min calculated for 21,943 cf (56% of inflow)
Center-of-Mass det. time= 122.7 min (994.5 - 871.8)

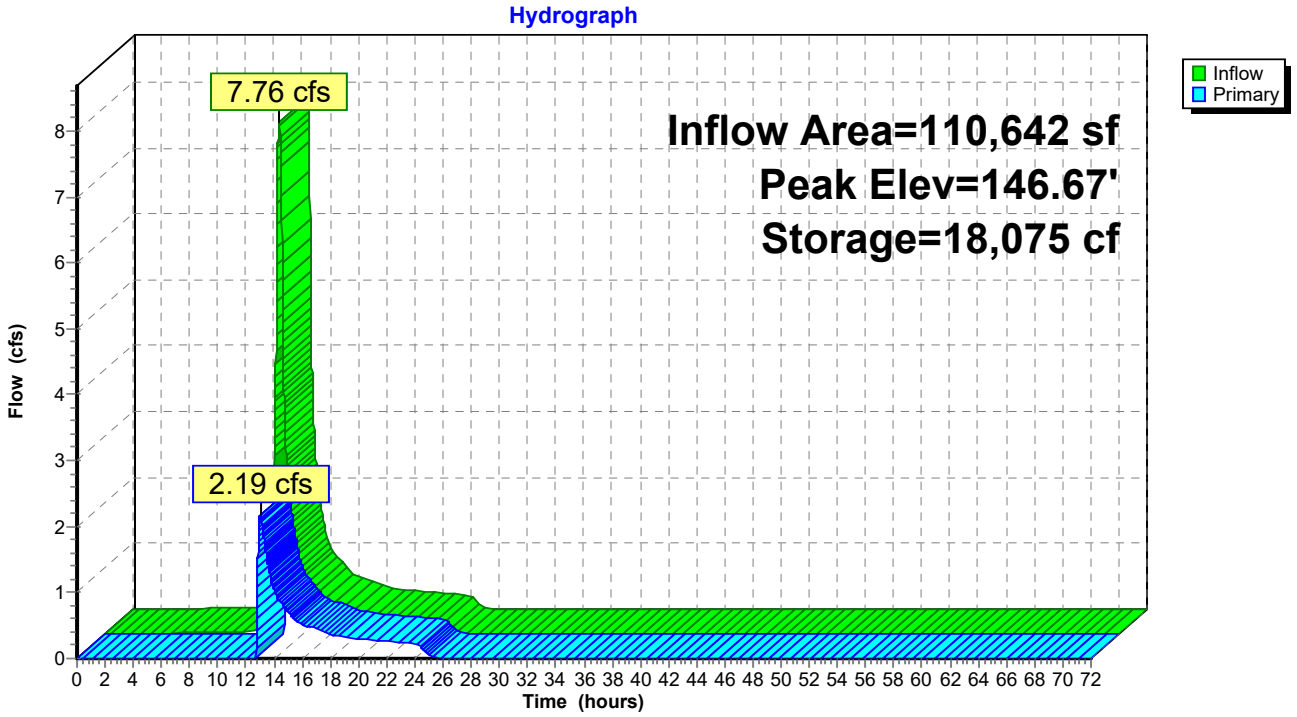
Volume	Invert	Avail.Storage	Storage Description
#1	143.00'	27,552 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.00	3,477	0	0
143.50	3,844	1,830	1,830
144.00	4,224	2,017	3,847
144.50	4,619	2,211	6,058
145.00	5,028	2,412	8,470
145.50	5,450	2,620	11,089
146.00	5,887	2,834	13,924
146.50	6,339	3,057	16,980
147.00	6,804	3,286	20,266
147.50	7,283	3,522	23,788
148.00	7,776	3,765	27,552

Device	Routing	Invert	Outlet Devices
#1	Primary	146.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Device 1	143.00'	**18.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 143.00' / 142.00' S= 0.0227 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.17 cfs @ 13.00 hrs HW=146.67' (Free Discharge)
↑**1=Orifice/Grate** (Weir Controls 2.17 cfs @ 1.35 fps)
↑**2=Culvert** (Passes 2.17 cfs of 2.77 cfs potential flow)

Pond 60P: Basin 3 Bioretention



Summary for Pond 61P: Basin 3 Infiltration

Inflow Area = 126,803 sf, 16.59% Impervious, Inflow Depth = 3.23" for 100-year_current event
Inflow = 3.62 cfs @ 12.09 hrs, Volume= 34,119 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 144.73' @ 37.39 hrs Surf.Area= 14,362 sf Storage= 34,119 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

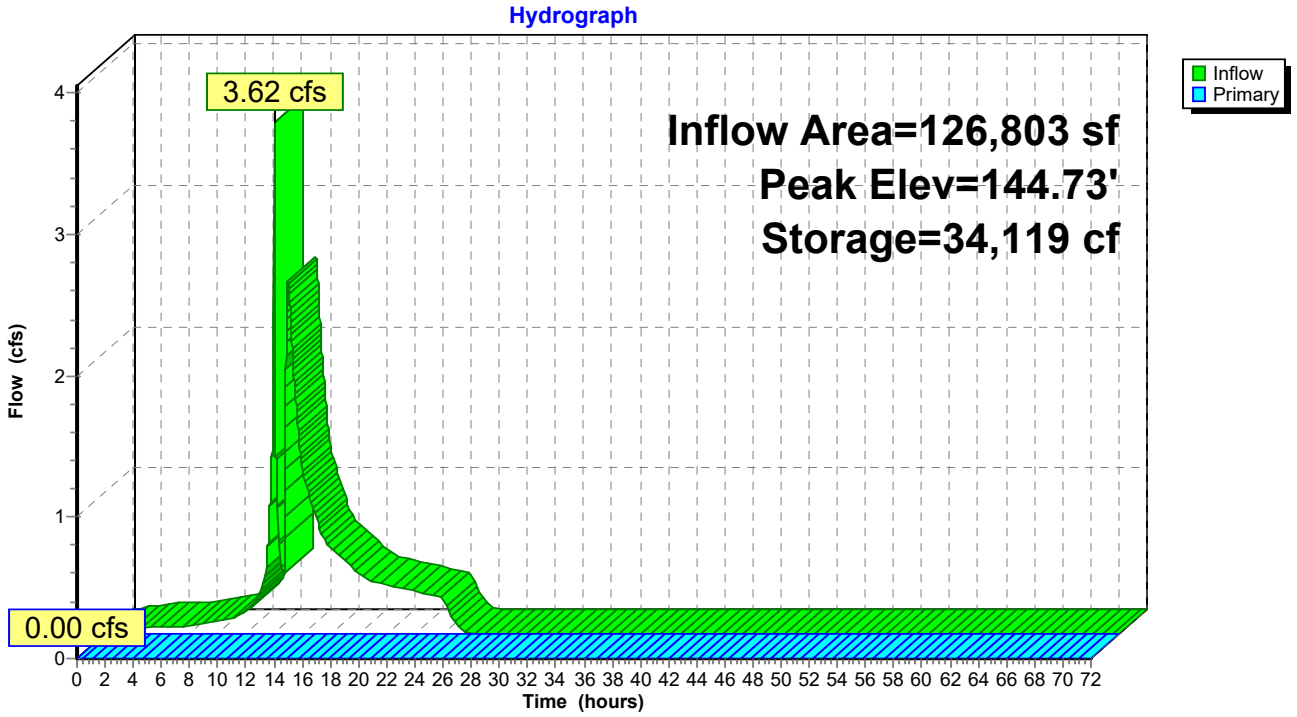
Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	66,946 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
142.00	10,684	0	0
142.30	11,069	3,263	3,263
142.80	11,719	5,697	8,960
143.30	12,382	6,025	14,985
143.80	13,060	6,361	21,346
144.30	13,752	6,703	28,049
144.80	14,458	7,053	35,101
145.30	15,177	7,409	42,510
145.80	15,912	7,772	50,282
146.30	16,660	8,143	58,425
146.80	17,422	8,521	66,946

Device	Routing	Invert	Outlet Devices
#1	Primary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 61P: Basin 3 Infiltration



Summary for Pond 65P: Basin 2B Forebay

Inflow Area = 383,157 sf, 7.33% Impervious, Inflow Depth = 2.27" for 100-year_current event
Inflow = 8.80 cfs @ 12.68 hrs, Volume= 72,531 cf
Outflow = 8.76 cfs @ 12.71 hrs, Volume= 68,468 cf, Atten= 0%, Lag= 1.5 min
Primary = 8.76 cfs @ 12.71 hrs, Volume= 68,468 cf
Routed to Pond 66P : Basin 2B Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.93' @ 12.71 hrs Surf.Area= 2,689 sf Storage= 5,161 cf

Plug-Flow detention time= 60.7 min calculated for 68,458 cf (94% of inflow)
Center-of-Mass det. time= 29.3 min (935.3 - 906.0)

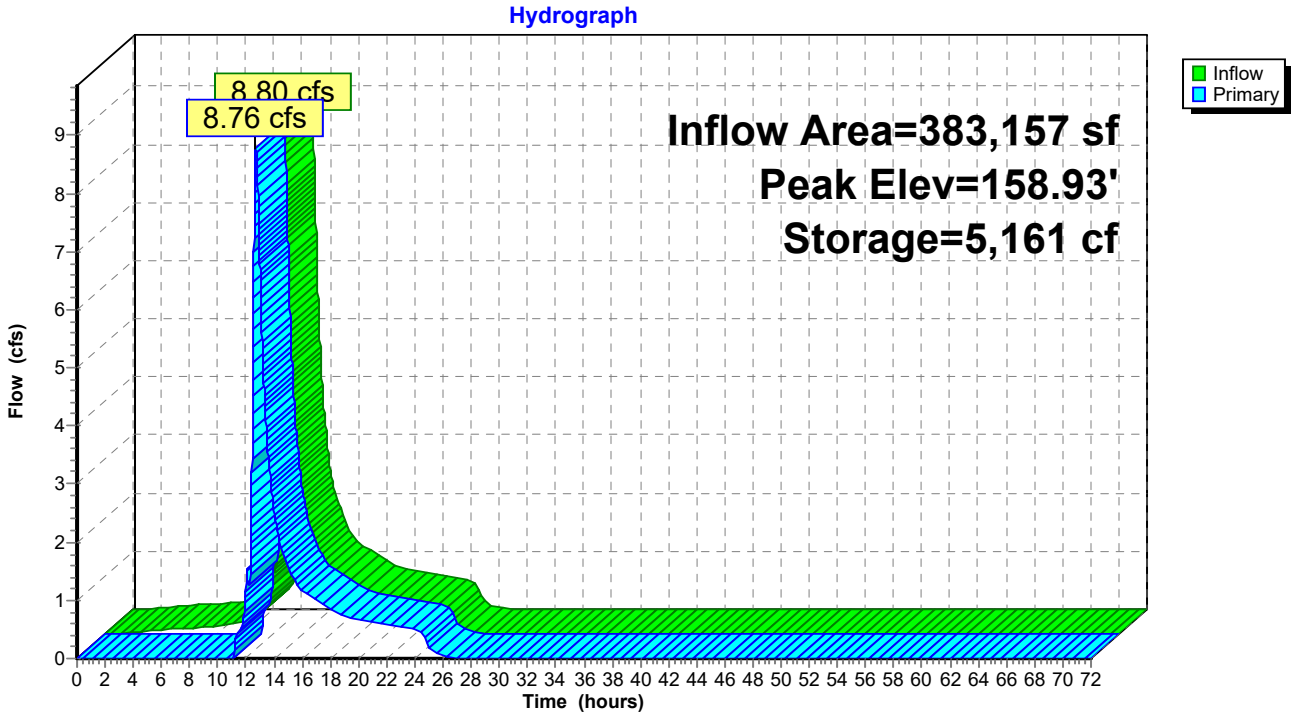
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	8,105 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	928	0	0
156.40	1,136	413	413
156.90	1,406	636	1,048
157.40	1,694	775	1,823
157.90	2,000	924	2,747
158.40	2,324	1,081	3,828
158.50	2,391	236	4,064
158.90	2,666	1,011	5,075
159.40	3,026	1,423	6,498
159.90	3,404	1,608	8,105

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf
#3	Primary	159.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=8.75 cfs @ 12.71 hrs HW=158.93' (Free Discharge)
- **2=Culvert** (Passes 8.75 cfs of 16.60 cfs potential flow)
  - **1=Orifice/Grate** (Weir Controls 8.75 cfs @ 2.15 fps)
- **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 65P: Basin 2B Forebay



Summary for Pond 66P: Basin 2B Infiltration Basin

Inflow Area = 435,255 sf, 18.42% Impervious, Inflow Depth = 2.97" for 100-year_current event
Inflow = 13.25 cfs @ 12.09 hrs, Volume= 107,712 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 153.97' @ 72.00 hrs Surf.Area= 40,294 sf Storage= 107,712 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

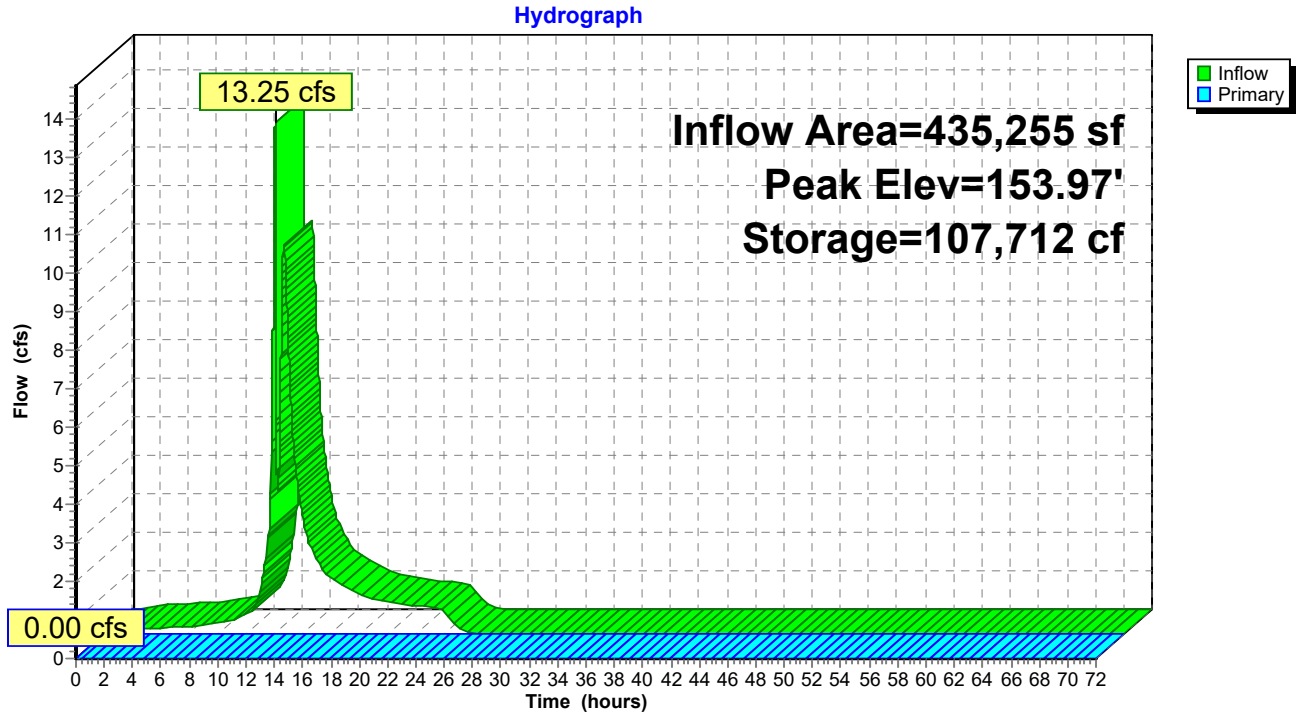
Volume	Invert	Avail.Storage	Storage Description
#1	151.00'	213,861 cf	**Basin 2B Infiltration Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
151.00	32,211	0	0
151.40	33,314	13,105	13,105
151.90	34,642	16,989	30,094
152.40	35,983	17,656	47,750
152.90	37,338	18,330	66,081
153.40	38,708	19,012	85,092
153.90	40,091	19,700	104,792
154.40	41,489	20,395	125,187
154.90	42,901	21,098	146,284
155.40	44,326	21,807	168,091
155.90	45,767	22,523	190,614
156.40	47,221	23,247	213,861

Device	Routing	Invert	Outlet Devices
#1	Primary	155.70'	**30.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=151.00' (Free Discharge)
↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 66P: Basin 2B Infiltration Basin



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 23S: Basin 1B Runoff Area=2.391 ac 91.22% Impervious Runoff Depth=0.94"
Flow Length=373' Tc=3.1 min CN=WQ Runoff=6.68 cfs 8,191 cf

Subcatchment 24S: Basin 2A West Runoff Area=1.263 ac 69.91% Impervious Runoff Depth=0.72"
Flow Length=246' Tc=2.2 min CN=WQ Runoff=2.71 cfs 3,316 cf

Subcatchment 25S: Basin 2A East Runoff Area=1.175 ac 71.06% Impervious Runoff Depth=0.74"
Flow Length=370' Tc=3.4 min CN=WQ Runoff=2.55 cfs 3,136 cf

Subcatchment 29S: Basin 2B West Runoff Area=4.192 ac 6.25% Impervious Runoff Depth=0.06"
Flow Length=525' Slope=0.0307 '/' Tc=17.5 min CN=WQ Runoff=0.54 cfs 984 cf

Subcatchment 30S: Basin 1A Central Runoff Area=5.749 ac 6.24% Impervious Runoff Depth=0.06"
Flow Length=512' Tc=17.7 min CN=WQ Runoff=0.74 cfs 1,348 cf

Subcatchment 31S: Basin 2B East Runoff Area=195,980 sf 6.17% Impervious Runoff Depth=0.06"
Flow Length=489' Slope=0.0301 '/' Tc=17.1 min CN=WQ Runoff=0.58 cfs 1,042 cf

Subcatchment 32S: undeveloped run on to Runoff Area=3,384 sf 0.00% Impervious Runoff Depth=0.00"
Tc=0.0 min CN=55 Runoff=0.00 cfs 0 cf

Subcatchment 33S: undeveloped run on to Runoff Area=3,576 sf 0.00% Impervious Runoff Depth=0.00"
Tc=0.0 min CN=55 Runoff=0.00 cfs 0 cf

Subcatchment 37S: Basin 3 Runoff Area=2.428 ac 0.00% Impervious Runoff Depth=0.04"
Flow Length=359' Tc=15.0 min CN=WQ Runoff=0.12 cfs 317 cf

Subcatchment 39S: Basin 1A East Runoff Area=182,579 sf 6.17% Impervious Runoff Depth=0.06"
Flow Length=413' Tc=16.1 min CN=WQ Runoff=0.55 cfs 971 cf

Subcatchment 40S: Basin 1A West Runoff Area=1.696 ac 6.25% Impervious Runoff Depth=0.06"
Flow Length=256' Slope=0.0267 '/' Tc=14.6 min CN=WQ Runoff=0.24 cfs 398 cf

Subcatchment 41S: Basin 4 East Runoff Area=0.868 ac 57.37% Impervious Runoff Depth=0.59"
Flow Length=329' Tc=3.2 min CN=WQ Runoff=1.52 cfs 1,870 cf

Subcatchment 42S: Basin 4 West Runoff Area=1.605 ac 65.73% Impervious Runoff Depth=0.68"
Flow Length=255' Slope=0.0284 '/' Tc=1.8 min CN=WQ Runoff=3.25 cfs 3,962 cf

Subcatchment 46S: Direct Rainfall Basin Runoff Area=0.311 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.96 cfs 1,168 cf

Subcatchment 47S: Direct Rainfall Basin Runoff Area=1.128 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=3.49 cfs 4,236 cf

Subcatchment 48S: Direct Rainfall Basin Runoff Area=0.191 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.59 cfs 717 cf

Subcatchment 49S: Direct Rainfall Basin Runoff Area=1.208 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=3.74 cfs 4,537 cf

Subcatchment 50S: Direct Rainfall Basin Runoff Area=0.690 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=2.14 cfs 2,591 cf

Subcatchment 52S: Direct Rainfall Basin Runoff Area=0.075 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.23 cfs 282 cf

Subcatchment 54S: Direct Rainfall Basin Runoff Area=8,189 sf 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.58 cfs 706 cf

Subcatchment 55S: Direct Rainfall Basin 3 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.07 cfs 86 cf

Subcatchment 56S: Direct Rainfall Basin Runoff Area=0.153 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.47 cfs 575 cf

Subcatchment 57S: Direct Rainfall Basin 4 Runoff Area=0.119 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.37 cfs 447 cf

Subcatchment 58S: Direct forest Runoff Area=0.714 ac 0.00% Impervious Runoff Depth=0.00"
Flow Length=234' Tc=40.9 min CN=55 Runoff=0.00 cfs 0 cf

Subcatchment 59S: Direct Rainfall Basin 4 Runoff Area=0.553 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=1.71 cfs 2,077 cf

Subcatchment 62S: Direct Rainfall Basin 3 Runoff Area=0.371 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=1.15 cfs 1,393 cf

Subcatchment 65S: Direct Rainfall Basin 3 Runoff Area=0.089 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.28 cfs 334 cf

Subcatchment 69S: Direct Rainfall Basin Runoff Area=0.105 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.33 cfs 394 cf

Subcatchment 70S: Direct Rainfall Basin Runoff Area=1.196 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=3.70 cfs 4,492 cf

Subcatchment 71S: Direct Rainfall to Runoff Area=0.106 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.33 cfs 398 cf

Subcatchment 74S: Direct forest runoff to Runoff Area=0.185 ac 0.00% Impervious Runoff Depth=0.00"
Flow Length=152' Tc=31.9 min CN=55 Runoff=0.00 cfs 0 cf

Reach 29R: DA1A East Swale Avg. Flow Depth=0.19' Max Vel=0.33 fps Inflow=0.55 cfs 971 cf
n=0.080 L=835.0' S=0.0073 '/' Capacity=113.94 cfs Outflow=0.21 cfs 971 cf

Reach 30R: DA1A West Swale Avg. Flow Depth=0.24' Max Vel=0.28 fps Inflow=0.74 cfs 1,746 cf
n=0.080 L=650.0' S=0.0038 '/' Capacity=82.67 cfs Outflow=0.30 cfs 1,746 cf

Reach 31R: DA2B East Swale Avg. Flow Depth=0.20' Max Vel=0.36 fps Inflow=0.58 cfs 1,042 cf
n=0.080 L=737.0' S=0.0083 '/' Capacity=121.27 cfs Outflow=0.25 cfs 1,042 cf

Reach 33R: DA2B West Swale Avg. Flow Depth=0.24' Max Vel=0.28 fps Inflow=0.54 cfs 984 cf
n=0.080 L=384.0' S=0.0039 '/' Capacity=83.31 cfs Outflow=0.30 cfs 984 cf

Reach 34R: DA4 West Swale Avg. Flow Depth=0.49' Max Vel=0.47 fps Inflow=3.25 cfs 3,962 cf
n=0.080 L=357.0' S=0.0042 '/' Capacity=86.41 cfs Outflow=2.05 cfs 3,962 cf

Reach 35R: DA2A West Swale Avg. Flow Depth=0.41' Max Vel=0.48 fps Inflow=2.71 cfs 3,316 cf
n=0.080 L=478.0' S=0.0056 '/' Capacity=100.19 cfs Outflow=1.46 cfs 3,316 cf

Reach 36R: DA2A East Swale Avg. Flow Depth=0.40' Max Vel=0.83 fps Inflow=2.55 cfs 3,136 cf
n=0.080 L=146.0' S=0.0171 '/' Capacity=174.43 cfs Outflow=2.44 cfs 3,136 cf

Reach 37R: DA1B Swale Avg. Flow Depth=0.64' Max Vel=0.63 fps Inflow=6.68 cfs 8,191 cf
n=0.080 L=383.0' S=0.0052 '/' Capacity=96.33 cfs Outflow=4.61 cfs 8,191 cf

Reach 38R: DA3 Swale Avg. Flow Depth=0.19' Max Vel=0.97 fps Inflow=0.12 cfs 317 cf
n=0.049 L=418.0' S=0.0251 '/' Capacity=55.69 cfs Outflow=0.11 cfs 317 cf

Reach 39R: DA 1A Central Swale A Avg. Flow Depth=0.15' Max Vel=0.24 fps Inflow=0.24 cfs 398 cf
n=0.080 L=498.0' S=0.0050 '/' Capacity=94.45 cfs Outflow=0.10 cfs 398 cf

Reach 41R: DA 1A Central Swale B Avg. Flow Depth=0.21' Max Vel=0.72 fps Inflow=0.10 cfs 398 cf
n=0.080 L=188.0' S=0.0319 '/' Capacity=38.45 cfs Outflow=0.09 cfs 398 cf

Reach 42R: DA4 East Swale Avg. Flow Depth=0.35' Max Vel=0.66 fps Inflow=1.52 cfs 1,870 cf
n=0.080 L=114.0' S=0.0132 '/' Capacity=152.91 cfs Outflow=1.46 cfs 1,870 cf

Reach 43R: DA4 Roadside swale Avg. Flow Depth=0.29' Max Vel=1.79 fps Inflow=2.05 cfs 3,962 cf
n=0.049 L=103.0' S=0.0243 '/' Capacity=73.85 cfs Outflow=2.02 cfs 3,962 cf

Reach 44R: DA4 Culvert Inflow=2.02 cfs 3,962 cf
Outflow=2.02 cfs 3,962 cf

Reach 45R: DA2B Road Swale Avg. Flow Depth=0.00' Max Vel=0.00 fps
n=0.080 L=296.0' S=0.0287 '/' Capacity=36.47 cfs Outflow=0.00 cfs 0 cf

Pond 15P: Basin 1A Forebay Peak Elev=158.66' Storage=2,999 cf Inflow=0.51 cfs 2,999 cf
Outflow=0.00 cfs 0 cf

Pond 18P: Basin 1B Forebay Peak Elev=158.24' Storage=8,765 cf Inflow=4.67 cfs 8,765 cf
Primary=0.00 cfs 0 cf Secondary=0.00 cfs 0 cf Outflow=0.00 cfs 0 cf

Pond 26P: Basin 2A Forebay Peak Elev=157.68' Storage=7,158 cf Inflow=2.86 cfs 7,158 cf
Primary=0.00 cfs 0 cf Secondary=0.00 cfs 0 cf Outflow=0.00 cfs 0 cf

Pond 38P: Basin 3 Forebay Peak Elev=144.13' Storage=403 cf Inflow=0.11 cfs 403 cf
Primary=0.00 cfs 0 cf Secondary=0.00 cfs 0 cf Outflow=0.00 cfs 0 cf

Pond 39P: Basin 4 Forebay Peak Elev=157.23' Storage=6,279 cf Inflow=2.46 cfs 6,279 cf
Primary=0.00 cfs 0 cf Secondary=0.00 cfs 0 cf Outflow=0.00 cfs 0 cf

Pond 43P: Basin 1B Bioretention	Peak Elev=154.15' Storage=717 cf	Inflow=0.59 cfs 717 cf Outflow=0.00 cfs 0 cf
Pond 44P: Basin 2A Bioretention	Peak Elev=154.24' Storage=1,168 cf	Inflow=0.96 cfs 1,168 cf Outflow=0.00 cfs 0 cf
Pond 45P: Basin 2A Infiltration	Peak Elev=150.77' Storage=4,226 cf	Inflow=3.49 cfs 4,236 cf Outflow=0.00 cfs 0 cf
Pond 46P: Basin 1B Infiltration	Peak Elev=148.14' Storage=2,591 cf	Inflow=2.14 cfs 2,591 cf Outflow=0.00 cfs 0 cf
Pond 48P: Basin 1A Infiltration Basin	Peak Elev=150.21' Storage=4,536 cf	Inflow=3.74 cfs 4,537 cf Outflow=0.00 cfs 0 cf
Pond 51P: Basin 4 Bioretention	Peak Elev=153.13' Storage=398 cf	Inflow=0.33 cfs 398 cf Outflow=0.00 cfs 0 cf
Pond 52P: Basin 4 Infiltration	Peak Elev=152.64' Storage=2,076 cf	Inflow=1.71 cfs 2,077 cf Outflow=0.00 cfs 0 cf
Pond 60P: Basin 3 Bioretention	Peak Elev=143.10' Storage=334 cf	Inflow=0.28 cfs 334 cf Outflow=0.00 cfs 0 cf
Pond 61P: Basin 3 Infiltration	Peak Elev=142.13' Storage=1,393 cf	Inflow=1.15 cfs 1,393 cf Outflow=0.00 cfs 0 cf
Pond 65P: Basin 2B Forebay	Peak Elev=157.73' Storage=2,420 cf	Inflow=0.52 cfs 2,420 cf Outflow=0.00 cfs 0 cf
Pond 66P: Basin 2B Infiltration Basin	Peak Elev=151.14' Storage=4,491 cf	Inflow=3.70 cfs 4,492 cf Outflow=0.00 cfs 0 cf

Total Runoff Area = 1,638,827 sf Runoff Volume = 49,968 cf Average Runoff Depth = 0.37"
64.86% Pervious = 1,062,927 sf 35.14% Impervious = 575,900 sf

Summary for Subcatchment 23S: Basin 1B

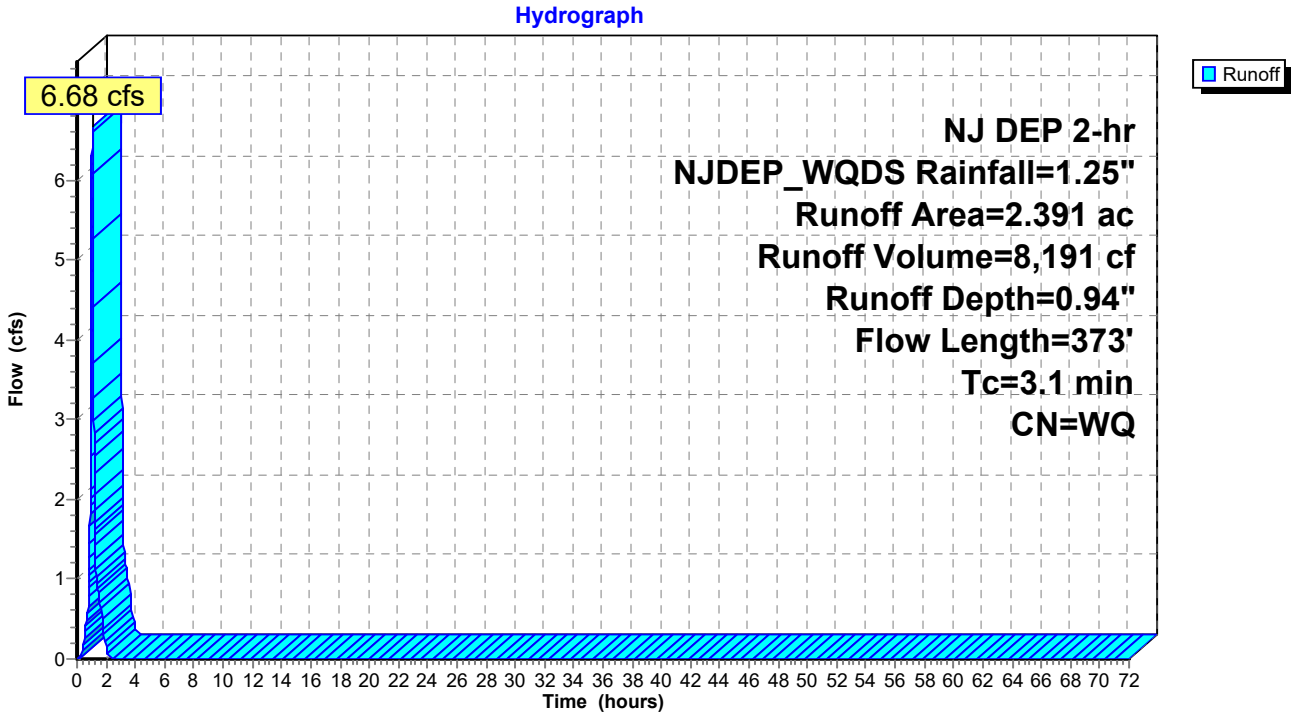
Runoff = 6.68 cfs @ 1.09 hrs, Volume= 8,191 cf, Depth= 0.94"
Routed to Reach 37R : DA1B Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
	0.210	39	>75% Grass cover, Good, HSG A
*	0.084	98	gravel road
*	2.097	98	compost/recycling area
	2.391		Weighted Average
	0.210	39	8.78% Pervious Area
	2.181	98	91.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0282	1.63		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
1.0	195	0.0282	3.41		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.1	78	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.1	373	Total			

Subcatchment 23S: Basin 1B



Summary for Subcatchment 24S: Basin 2A West

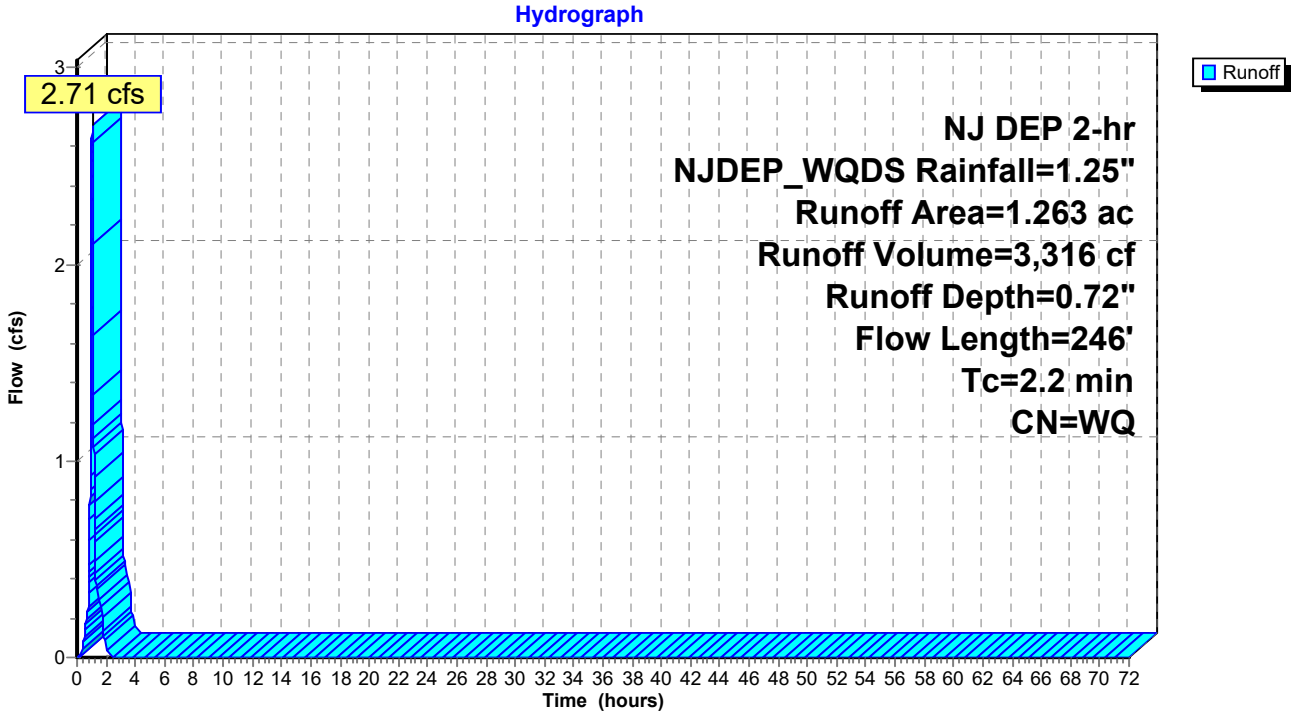
Runoff = 2.71 cfs @ 1.08 hrs, Volume= 3,316 cf, Depth= 0.72"
Routed to Reach 35R : DA2A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.380	39	grass cover
*	0.883	98	compost area
	1.263		Weighted Average
	0.380	39	30.09% Pervious Area
	0.883	98	69.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0303	1.67		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.4	85	0.0303	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.8	61	0.0309	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.2	246	Total			

Subcatchment 24S: Basin 2A West



Summary for Subcatchment 25S: Basin 2A East

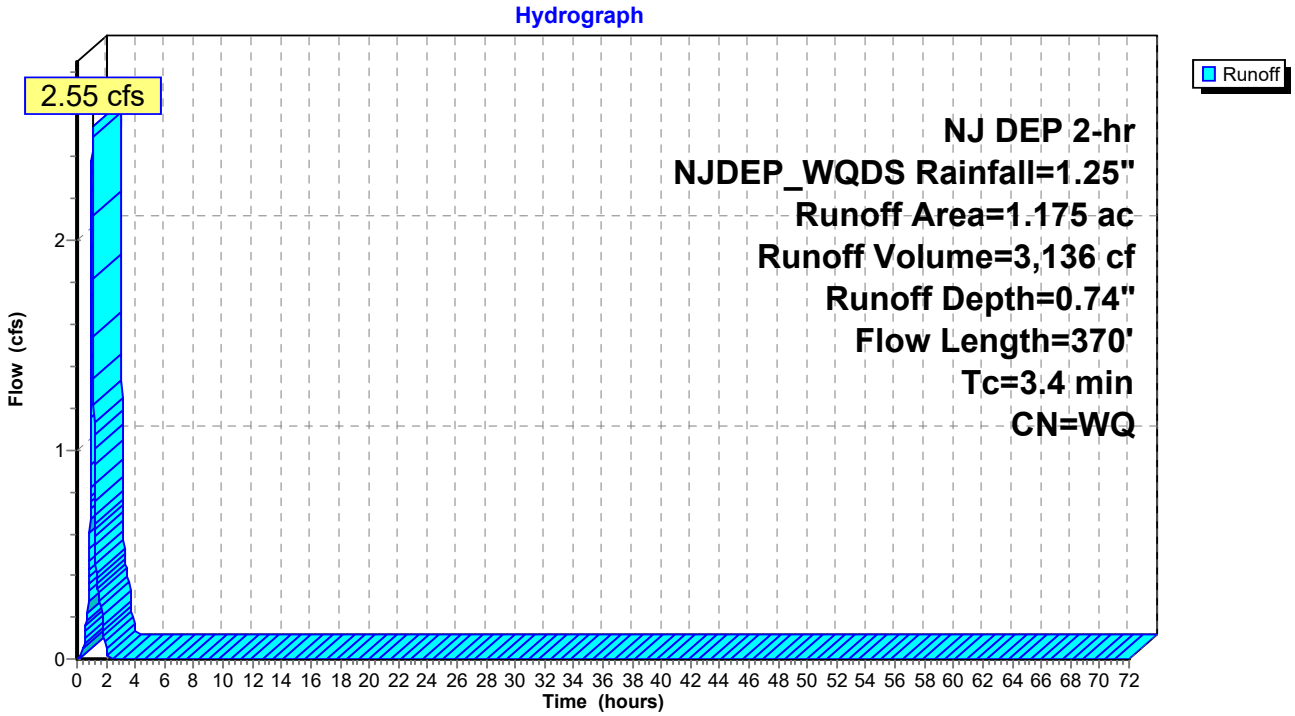
Runoff = 2.55 cfs @ 1.09 hrs, Volume= 3,136 cf, Depth= 0.74"
Routed to Reach 36R : DA2A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.223	98	gravel road
*	0.612	98	compost area
*	0.340	39	grass cover
	1.175		Weighted Average
	0.340	39	28.94% Pervious Area
	0.835	98	71.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0300	1.67		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.6	136	0.0302	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	134	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	370	Total			

Subcatchment 25S: Basin 2A East



Summary for Subcatchment 29S: Basin 2B West

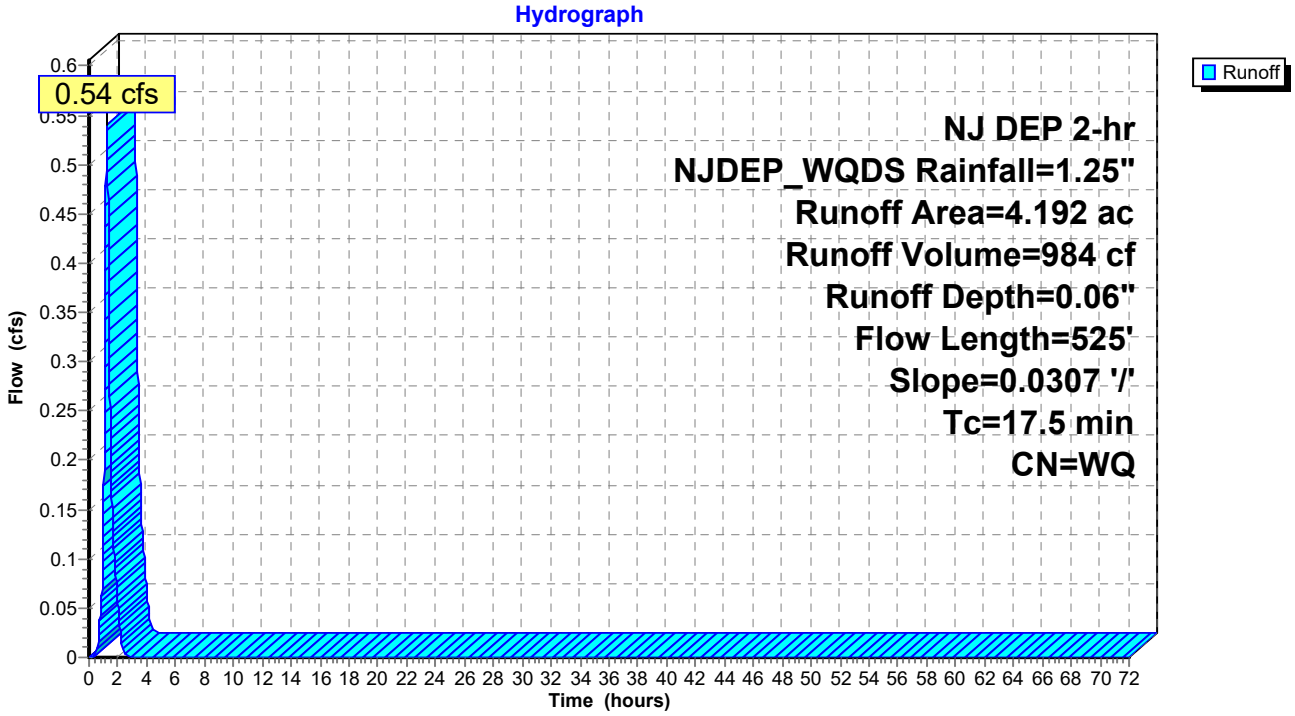
Runoff = 0.54 cfs @ 1.23 hrs, Volume= 984 cf, Depth= 0.06"
Routed to Reach 33R : DA2B West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
	3.930	39	>75% Grass cover, Good, HSG A
*	0.262	98	Solar
	4.192		Weighted Average
	3.930	39	93.75% Pervious Area
	0.262	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	100	0.0307	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.8	425	0.0307	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.5	525	Total			

Subcatchment 29S: Basin 2B West



Summary for Subcatchment 30S: Basin 1A Central

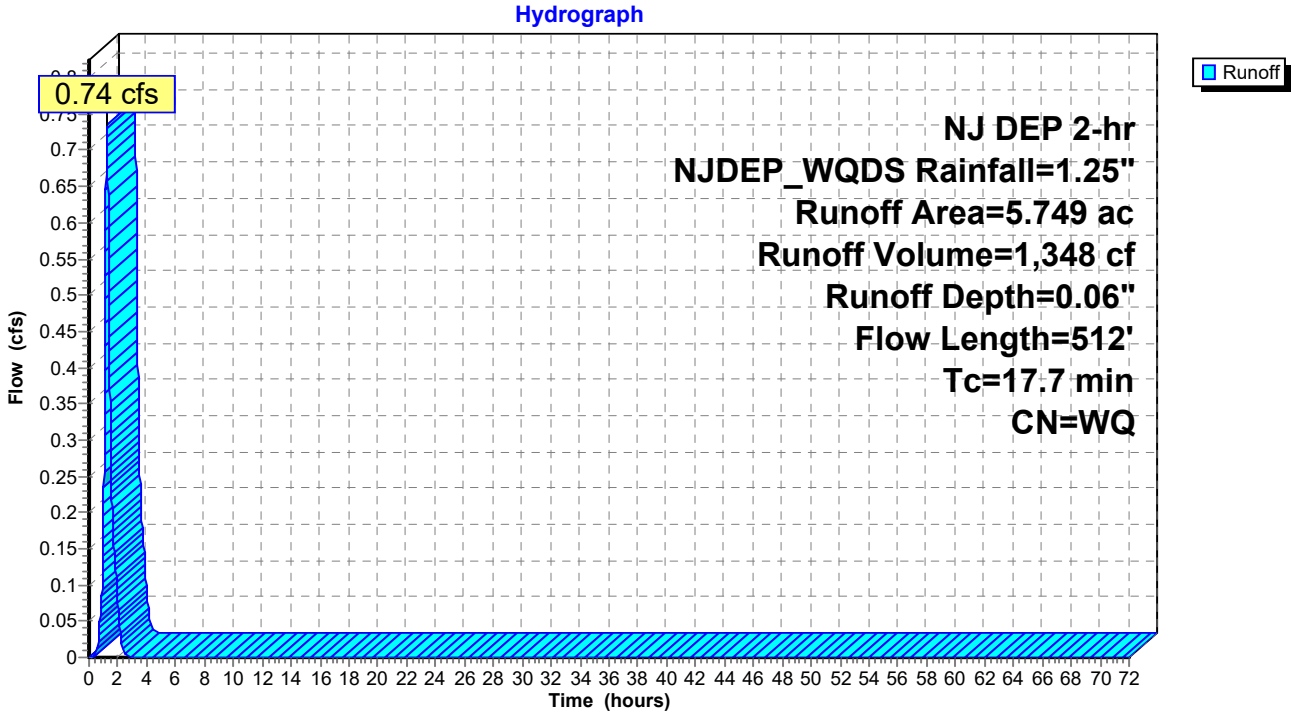
Runoff = 0.74 cfs @ 1.24 hrs, Volume= 1,348 cf, Depth= 0.06"
Routed to Reach 30R : DA1A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.359	98	solar
*	5.390	39	grass
	5.749		Weighted Average
	5.390	39	93.76% Pervious Area
	0.359	98	6.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.9	100	0.0291	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.8	412	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.7	512	Total			

Subcatchment 30S: Basin 1A Central



Summary for Subcatchment 31S: Basin 2B East

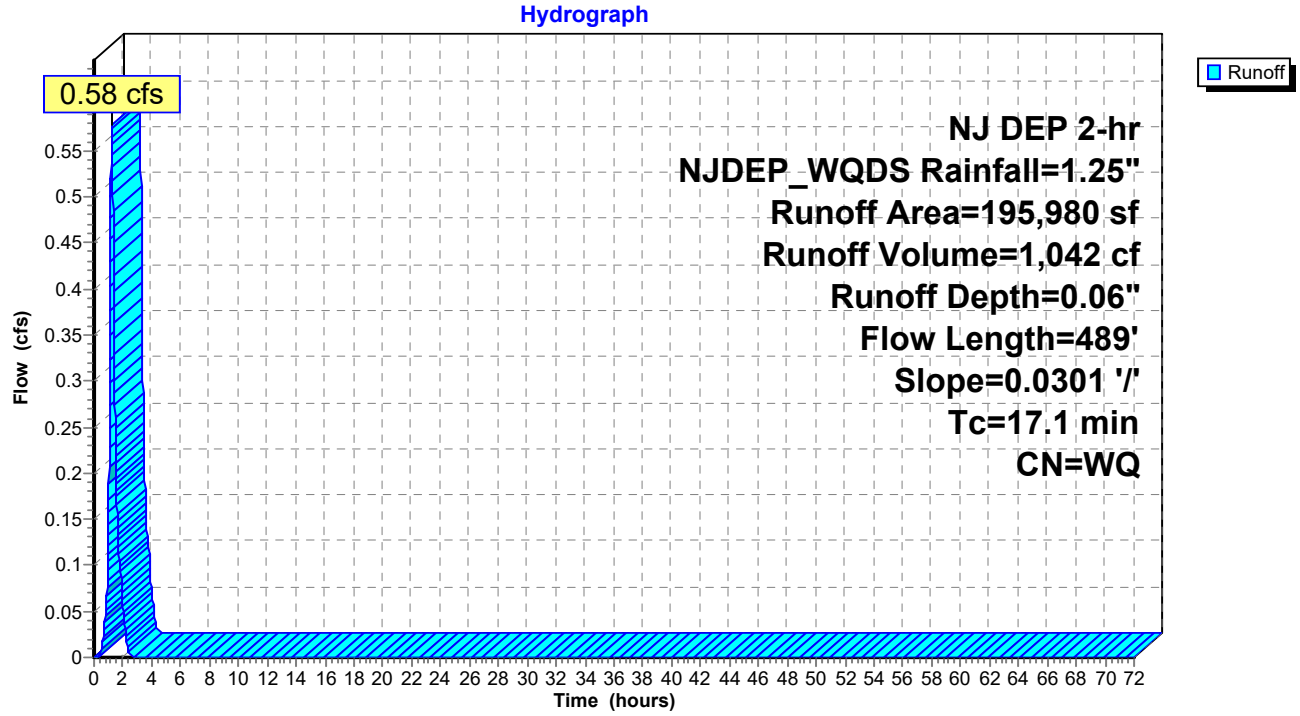
Runoff = 0.58 cfs @ 1.23 hrs, Volume= 1,042 cf, Depth= 0.06"
Routed to Reach 31R : DA2B East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
	183,896	39	>75% Grass cover, Good, HSG A
*	12,084	98	Solar
	195,980		Weighted Average
	183,896	39	93.83% Pervious Area
	12,084	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	100	0.0301	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
5.3	389	0.0301	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
17.1	489	Total			

Subcatchment 31S: Basin 2B East



Summary for Subcatchment 32S: undeveloped run on to forebay

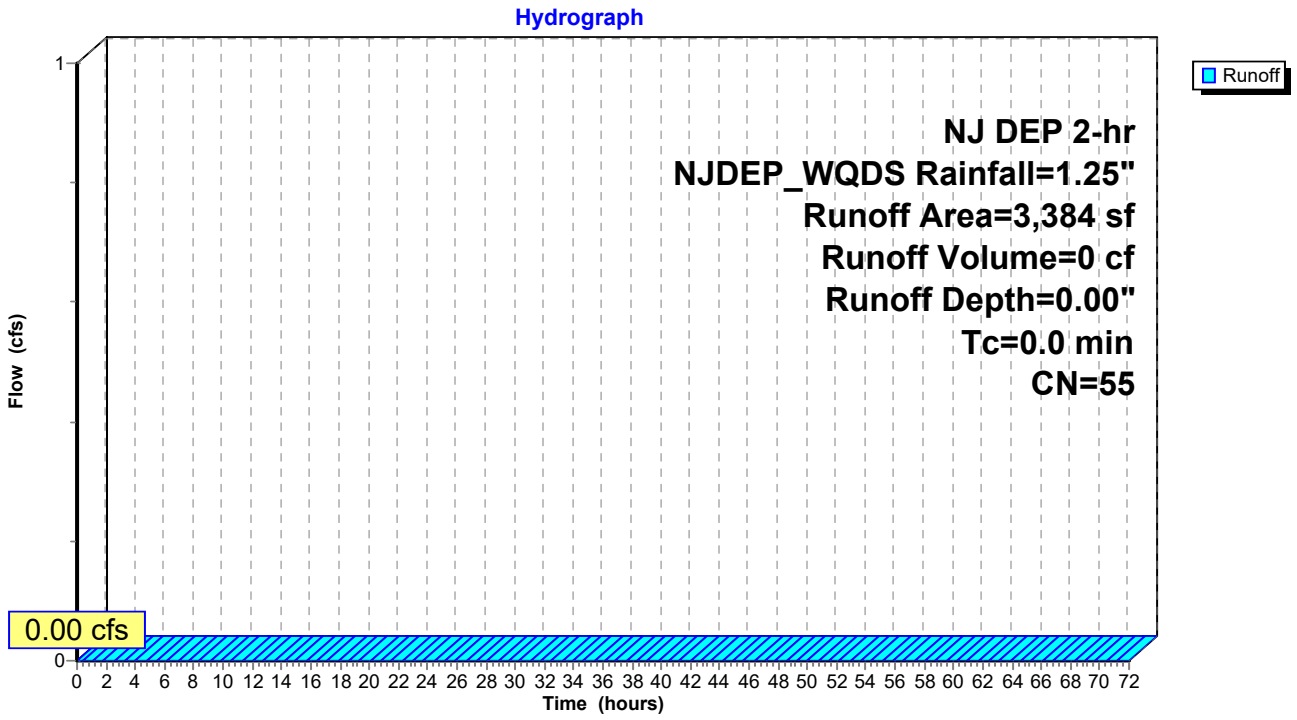
[46] Hint: Tc=0 (Instant runoff peak depends on dt)
[45] Hint: Runoff=Zero

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
*	3,384	55	
	3,384	55	100.00% Pervious Area

Subcatchment 32S: undeveloped run on to forebay



Summary for Subcatchment 33S: undeveloped run on to bioretention

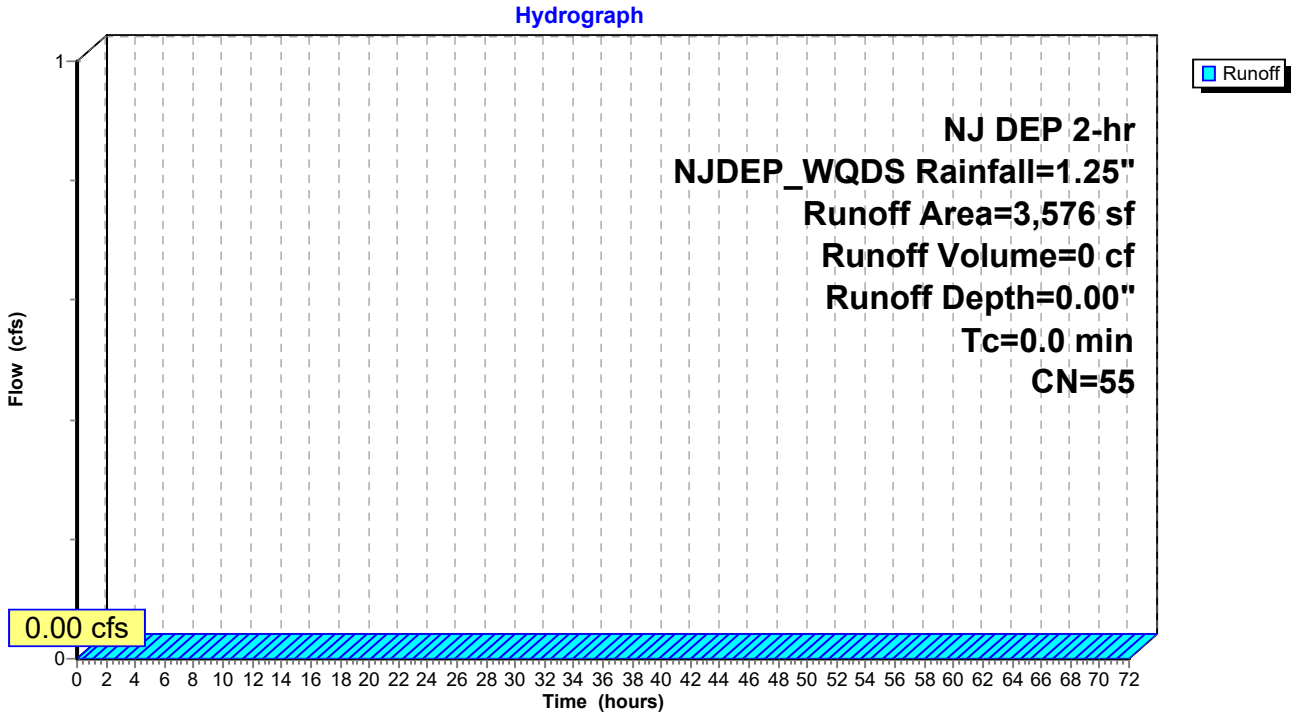
[46] Hint: Tc=0 (Instant runoff peak depends on dt)
[45] Hint: Runoff=Zero

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
*	3,576	55	
	3,576	55	100.00% Pervious Area

Subcatchment 33S: undeveloped run on to bioretention



Summary for Subcatchment 37S: Basin 3

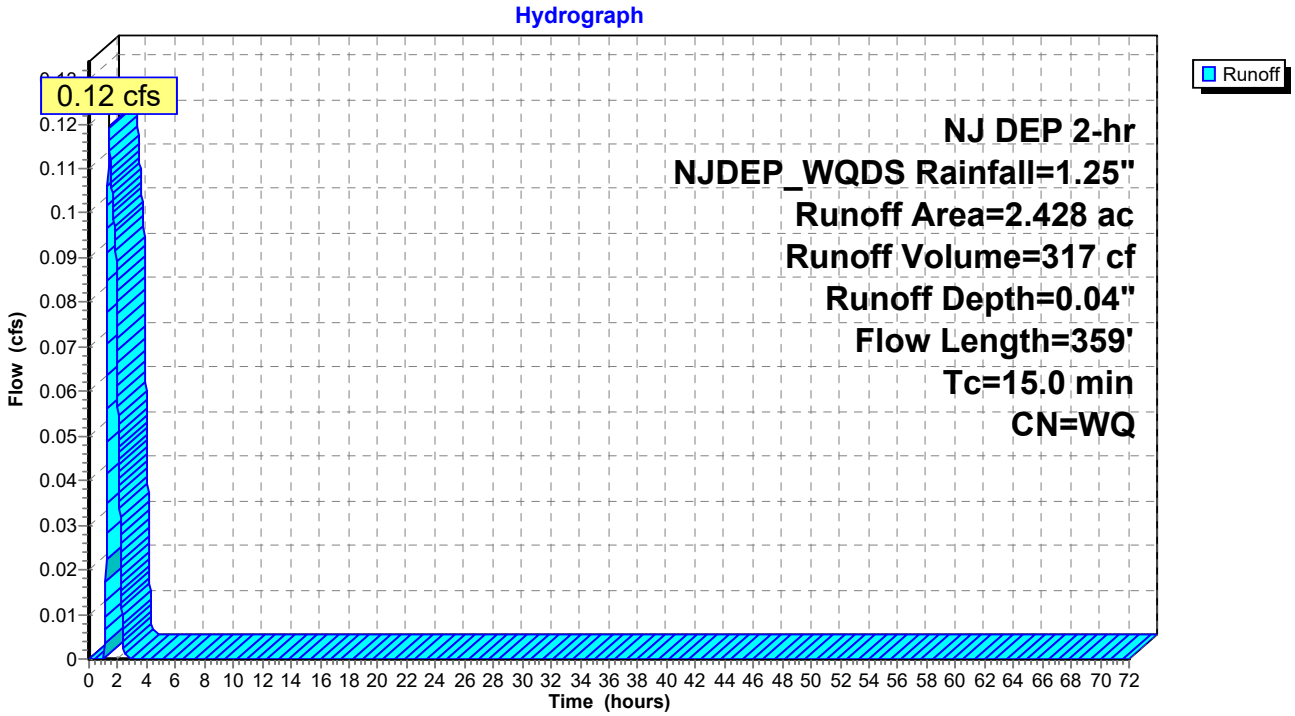
Runoff = 0.12 cfs @ 1.38 hrs, Volume= 317 cf, Depth= 0.04"
Routed to Reach 38R : DA3 Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.720	39	grass
*	1.708	72	sand
	2.428		Weighted Average
	2.428	62	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	35	0.5455	0.37		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
8.1	65	0.0321	0.13		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
3.4	107	0.0055	0.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	152	0.0066	1.31		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
15.0	359	Total			

Subcatchment 37S: Basin 3



Summary for Subcatchment 39S: Basin 1A East

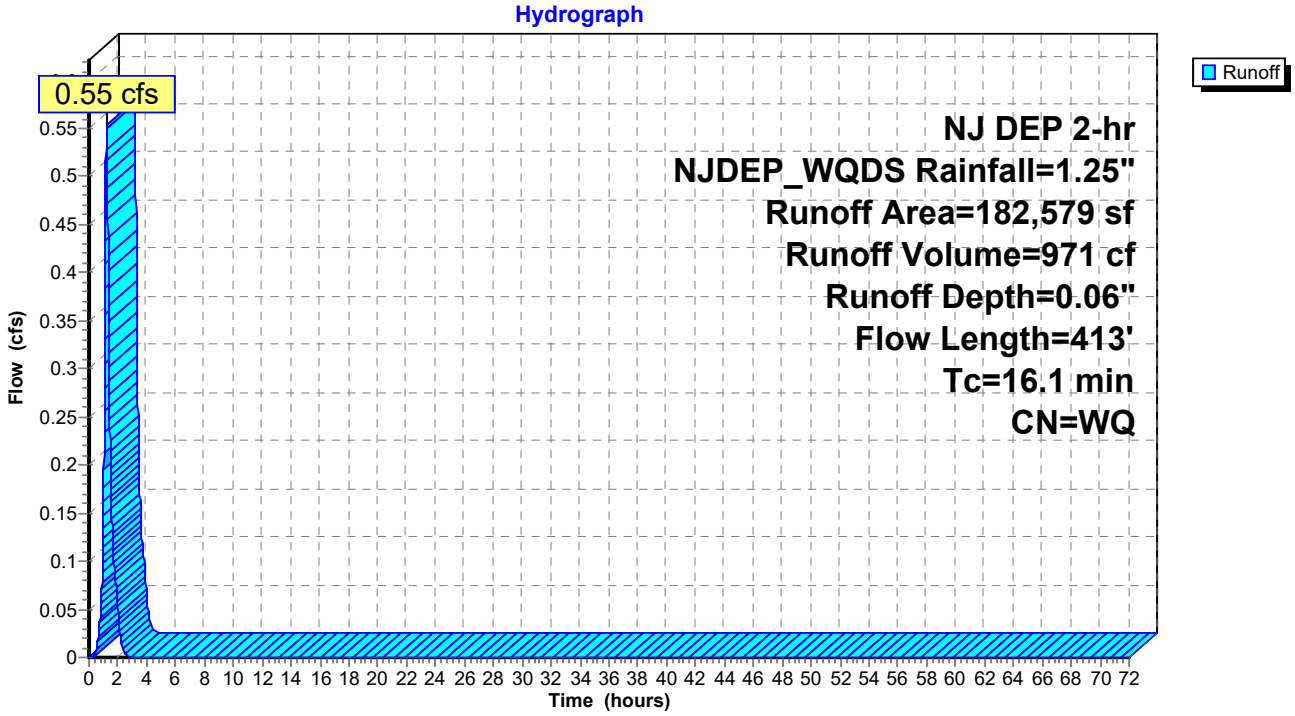
Runoff = 0.55 cfs @ 1.22 hrs, Volume= 971 cf, Depth= 0.06"
Routed to Reach 29R : DA1A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
	171,321	39	>75% Grass cover, Good, HSG A
*	11,258	98	Solar
	182,579		Weighted Average
	171,321	39	93.83% Pervious Area
	11,258	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.8	100	0.0299	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
4.3	313	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.1	413	Total			

Subcatchment 39S: Basin 1A East



Summary for Subcatchment 40S: Basin 1A West

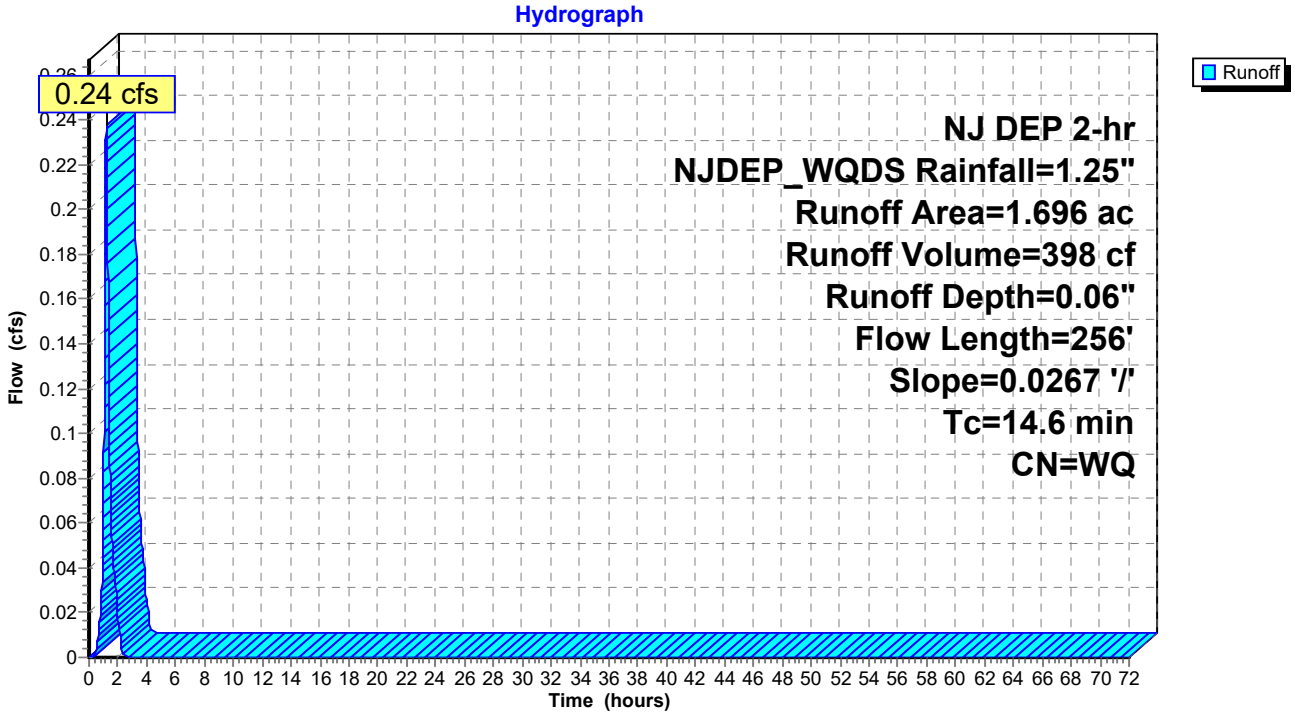
Runoff = 0.24 cfs @ 1.20 hrs, Volume= 398 cf, Depth= 0.06"
Routed to Reach 39R : DA 1A Central Swale A

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
	1.590	39	>75% Grass cover, Good, HSG A
*	0.106	98	Solar
	1.696		Weighted Average
	1.590	39	93.75% Pervious Area
	0.106	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.3	100	0.0267	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
2.3	156	0.0267	1.14		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	256	Total			

Subcatchment 40S: Basin 1A West



Summary for Subcatchment 41S: Basin 4 East

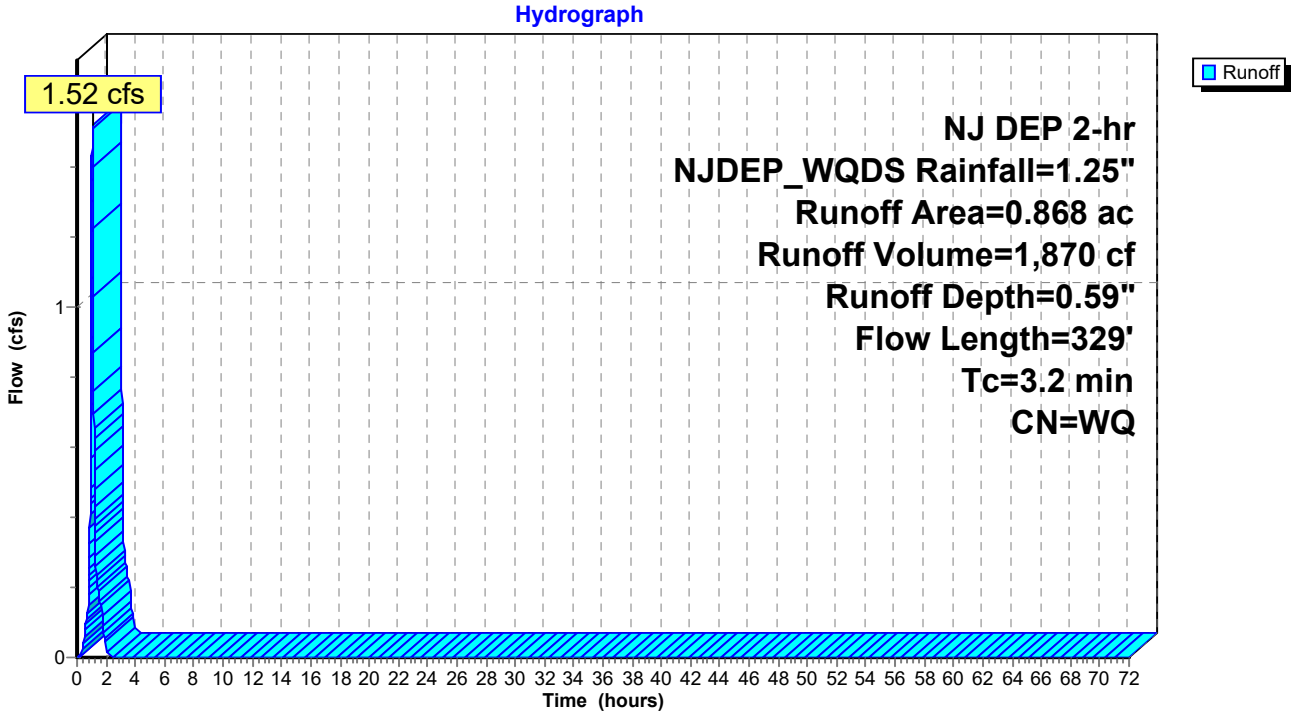
Runoff = 1.52 cfs @ 1.09 hrs, Volume= 1,870 cf, Depth= 0.59"
Routed to Reach 42R : DA4 East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.498	98	salt storage area
*	0.370	39	grass cover
	0.868		Weighted Average
	0.370	39	42.63% Pervious Area
	0.498	98	57.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0296	1.66		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.4	90	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	139	0.0325	1.26		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.2	329	Total			

Subcatchment 41S: Basin 4 East



Summary for Subcatchment 42S: Basin 4 West

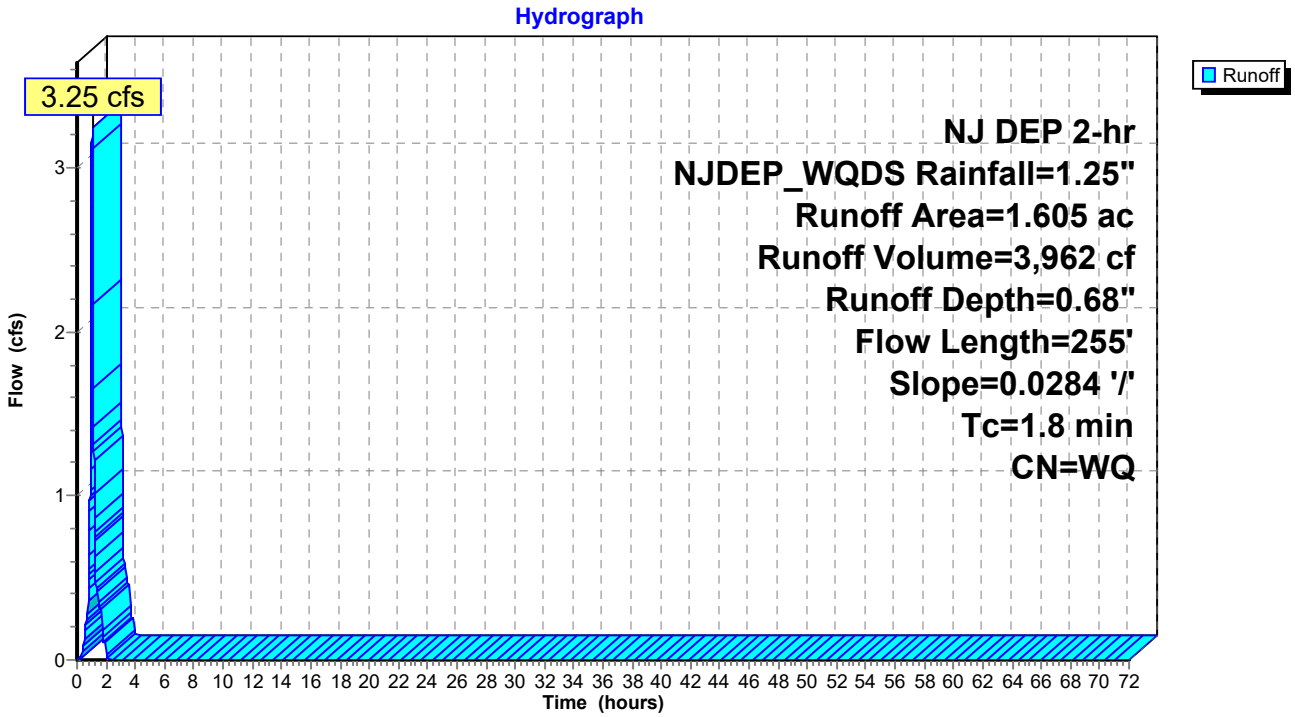
Runoff = 3.25 cfs @ 1.08 hrs, Volume= 3,962 cf, Depth= 0.68"
Routed to Reach 34R : DA4 West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.237	98	gravel road
*	0.818	98	compost/recycling area
*	0.550	39	grass cover
	1.605		Weighted Average
	0.550	39	34.27% Pervious Area
	1.055	98	65.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0284	1.63		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.8	155	0.0284	3.42		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	255	Total			

Subcatchment 42S: Basin 4 West



Summary for Subcatchment 46S: Direct Rainfall Basin 2A Bioretention

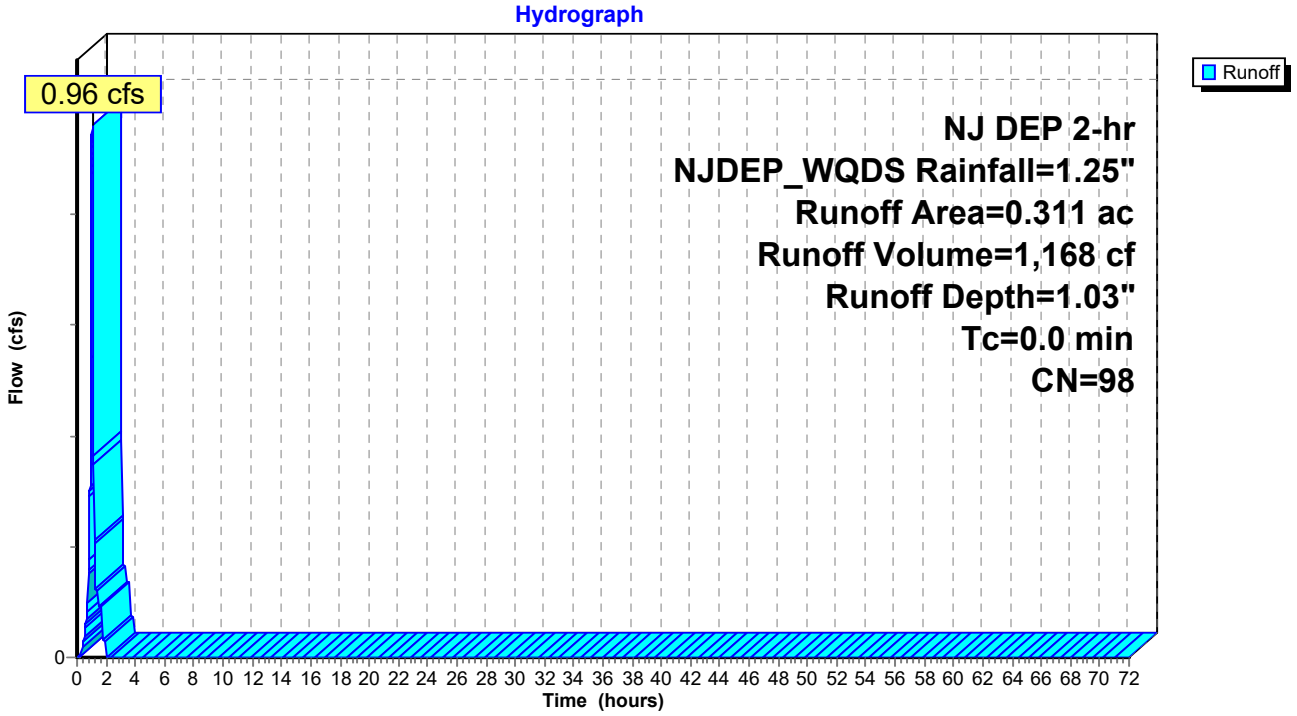
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.96 cfs @ 1.07 hrs, Volume= 1,168 cf, Depth= 1.03"
Routed to Pond 44P : Basin 2A Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.311	98	Direct Rainfall
	0.311	98	100.00% Impervious Area

Subcatchment 46S: Direct Rainfall Basin 2A Bioretention



Summary for Subcatchment 47S: Direct Rainfall Basin 2A Infiltration

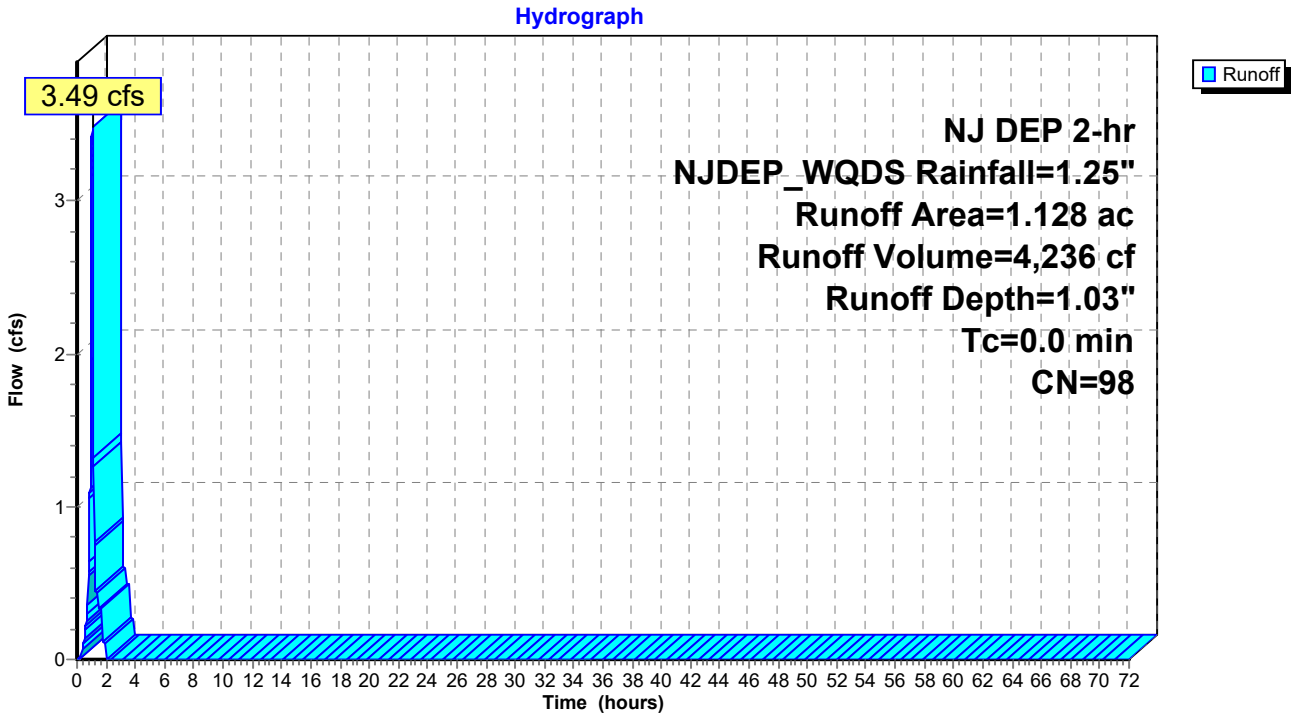
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.49 cfs @ 1.07 hrs, Volume= 4,236 cf, Depth= 1.03"
Routed to Pond 45P : Basin 2A Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	1.128	98	Direct Rainfall
	1.128	98	100.00% Impervious Area

Subcatchment 47S: Direct Rainfall Basin 2A Infiltration



Summary for Subcatchment 48S: Direct Rainfall Basin 1B Bioretention

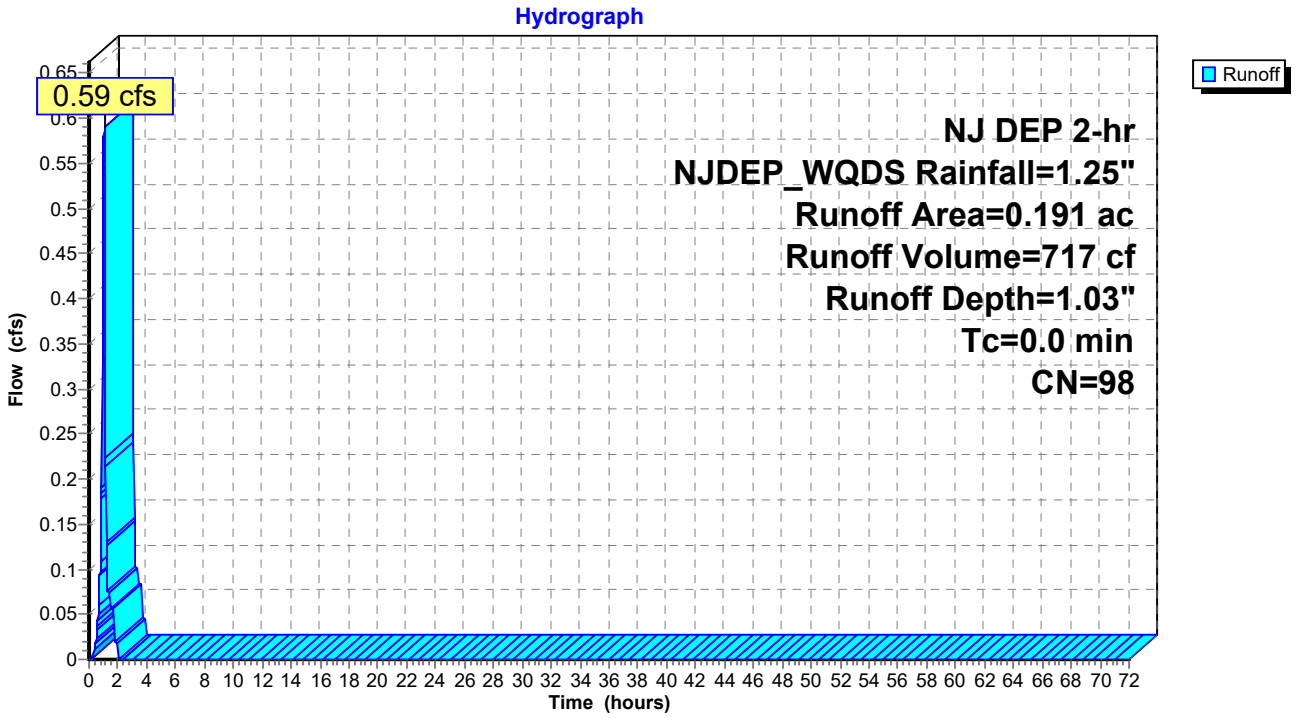
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.59 cfs @ 1.07 hrs, Volume= 717 cf, Depth= 1.03"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.191	98	direct rainfall onto bioretention
	0.191	98	100.00% Impervious Area

Subcatchment 48S: Direct Rainfall Basin 1B Bioretention



Summary for Subcatchment 49S: Direct Rainfall Basin 1A Infiltration

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

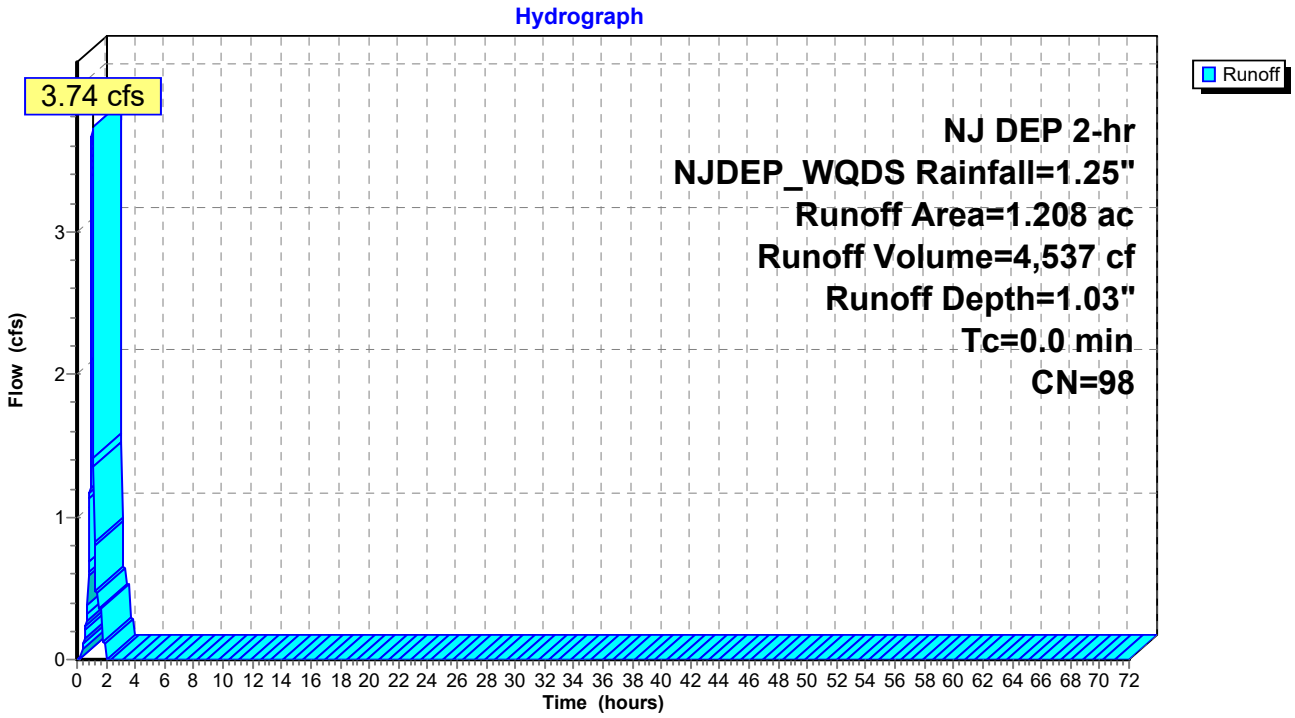
Runoff = 3.74 cfs @ 1.07 hrs, Volume= 4,537 cf, Depth= 1.03"
Routed to Pond 48P : Basin 1A Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	1.208	98	
	1.208	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					**Direct Entry,**

Subcatchment 49S: Direct Rainfall Basin 1A Infiltration



Summary for Subcatchment 50S: Direct Rainfall Basin 1B Infiltration

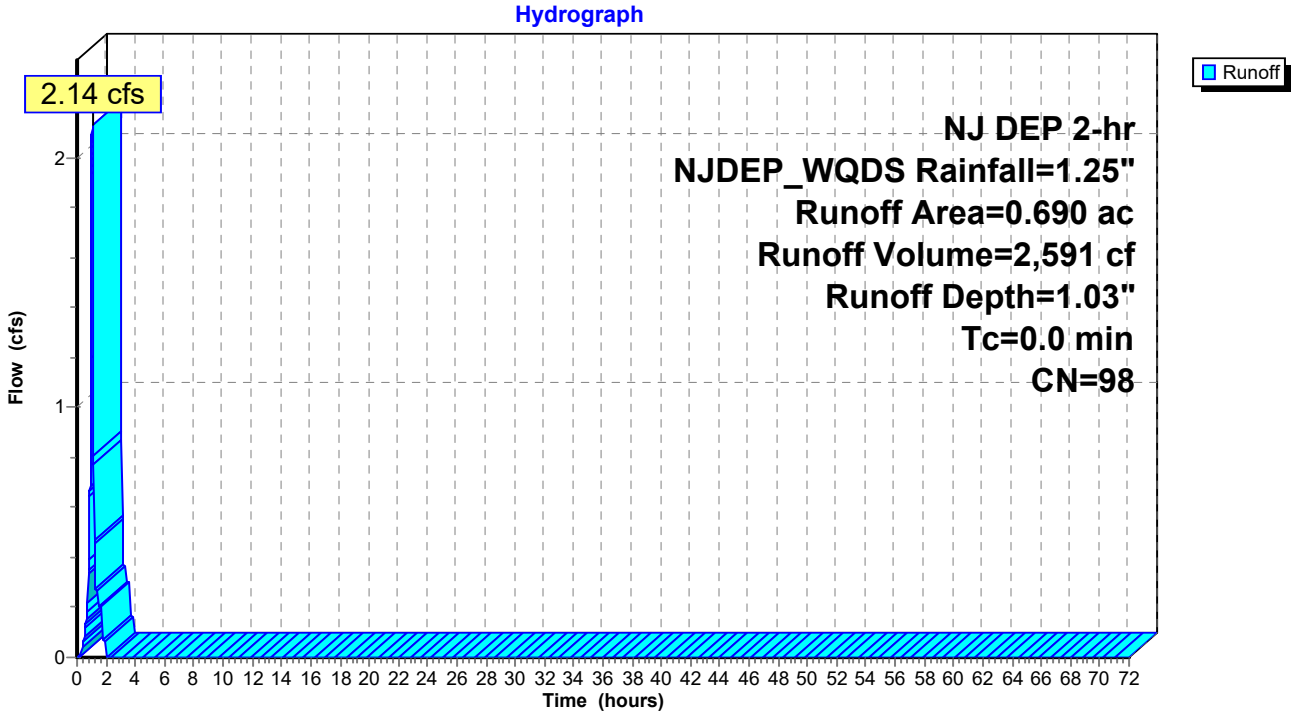
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.14 cfs @ 1.07 hrs, Volume= 2,591 cf, Depth= 1.03"
Routed to Pond 46P : Basin 1B Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.690	98	direct rainfall
	0.690	98	100.00% Impervious Area

Subcatchment 50S: Direct Rainfall Basin 1B Infiltration



Summary for Subcatchment 52S: Direct Rainfall Basin 1A Forebay

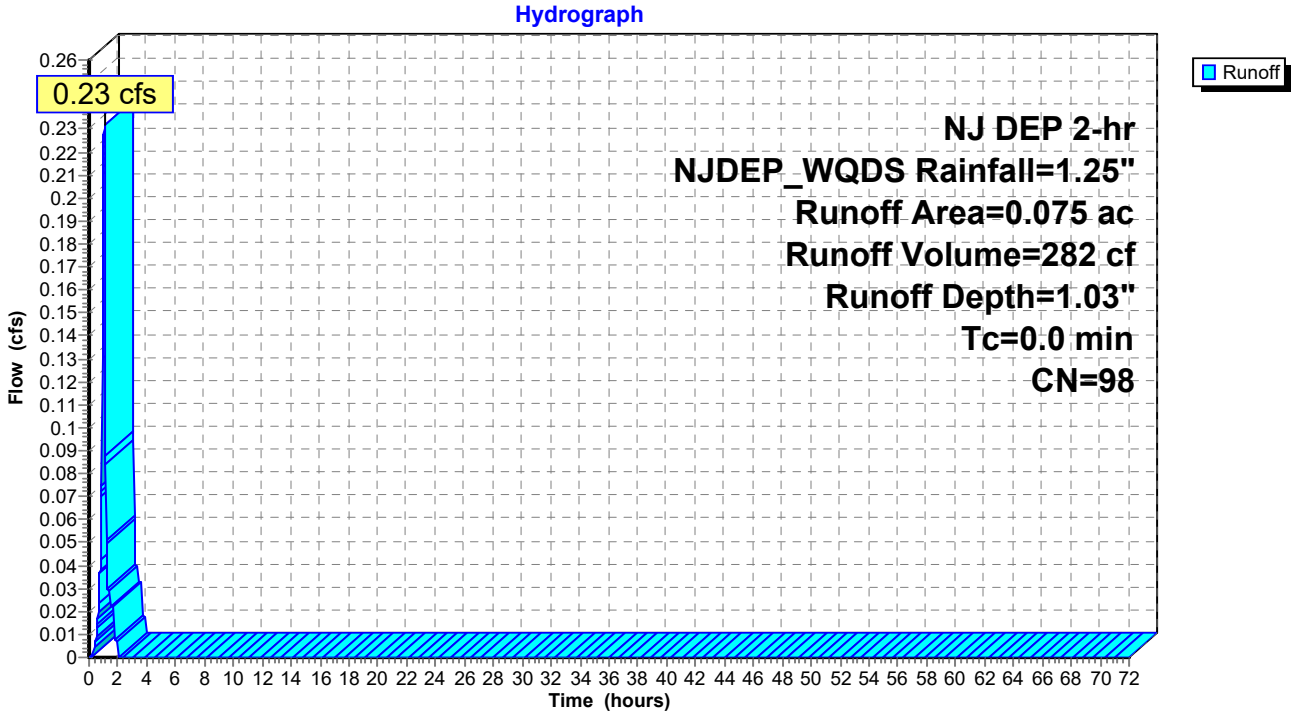
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.23 cfs @ 1.07 hrs, Volume= 282 cf, Depth= 1.03"
Routed to Pond 15P : Basin 1A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.075	98	direct rainfall
	0.075	98	100.00% Impervious Area

Subcatchment 52S: Direct Rainfall Basin 1A Forebay



Summary for Subcatchment 54S: Direct Rainfall Basin 2A forebay

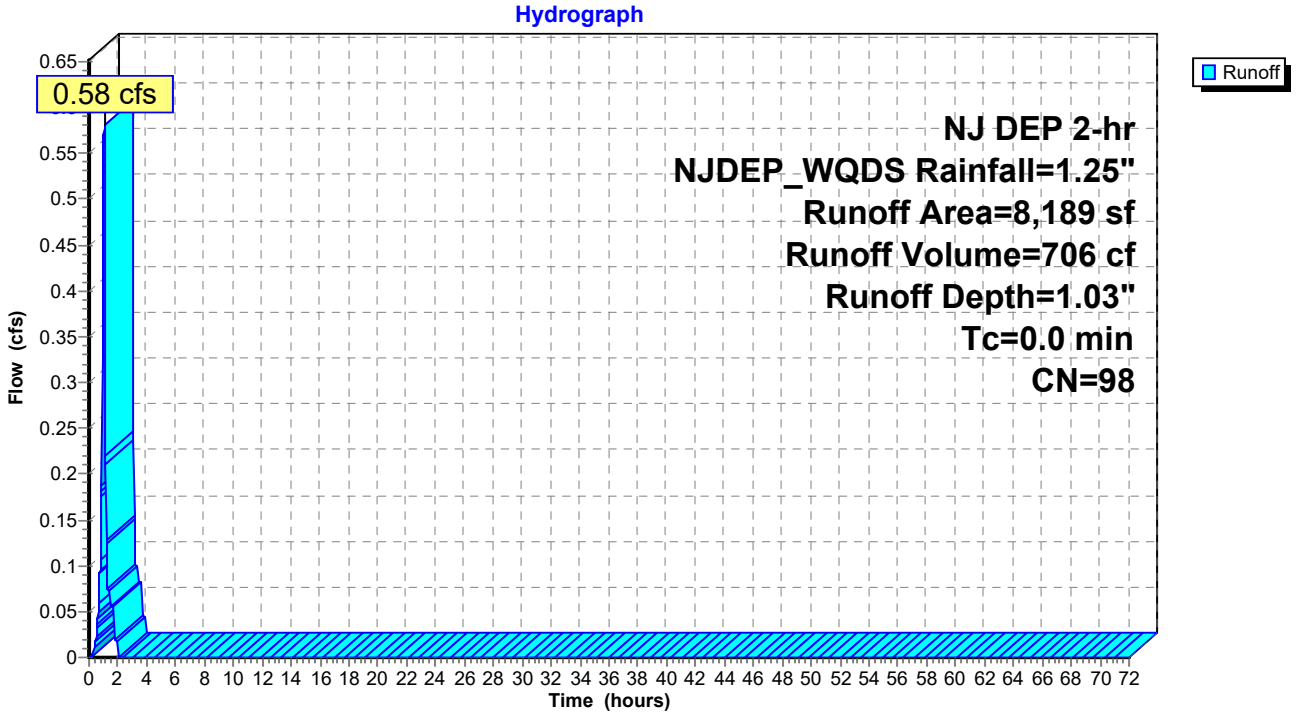
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.58 cfs @ 1.07 hrs, Volume= 706 cf, Depth= 1.03"
Routed to Pond 26P : Basin 2A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
*	8,189	98	direct rainfall to forebay
	8,189	98	100.00% Impervious Area

Subcatchment 54S: Direct Rainfall Basin 2A forebay



Summary for Subcatchment 55S: Direct Rainfall Basin 3 Forebay

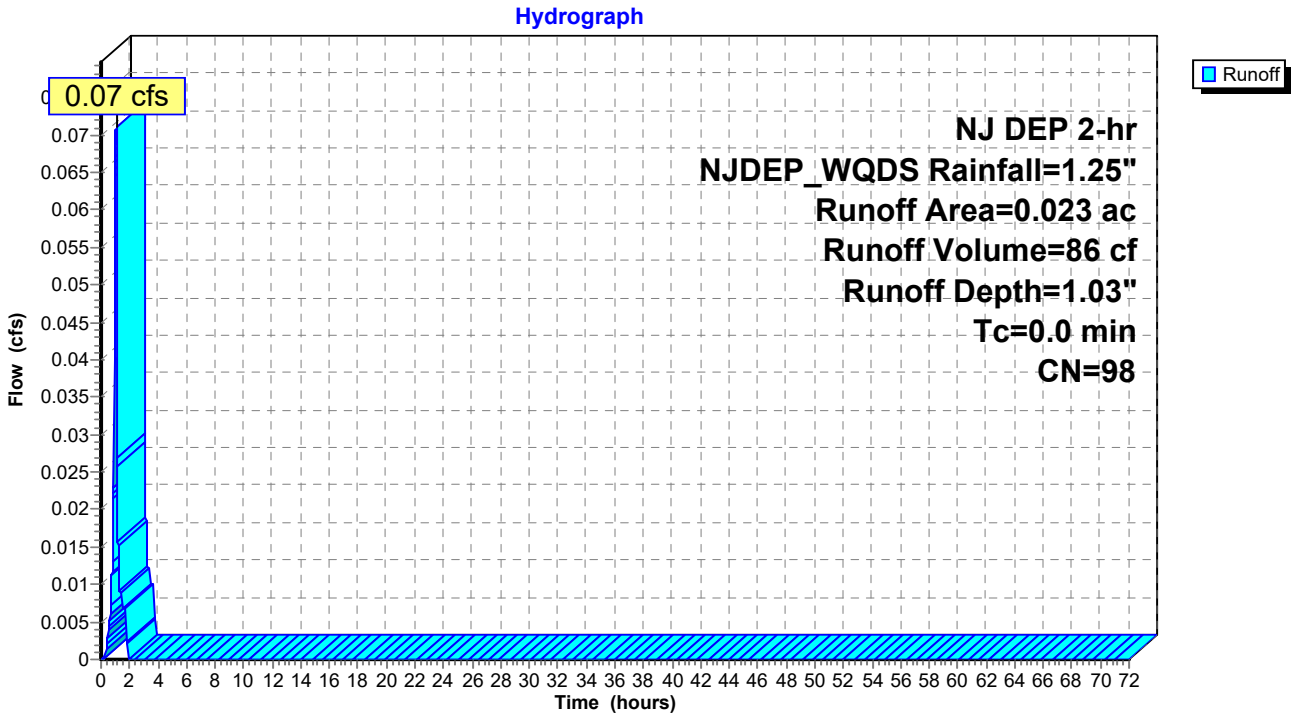
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.07 cfs @ 1.07 hrs, Volume= 86 cf, Depth= 1.03"
Routed to Pond 38P : Basin 3 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.023	98	direct rainfall
	0.023	98	100.00% Impervious Area

Subcatchment 55S: Direct Rainfall Basin 3 Forebay



Summary for Subcatchment 56S: Direct Rainfall Basin 1B Forebay

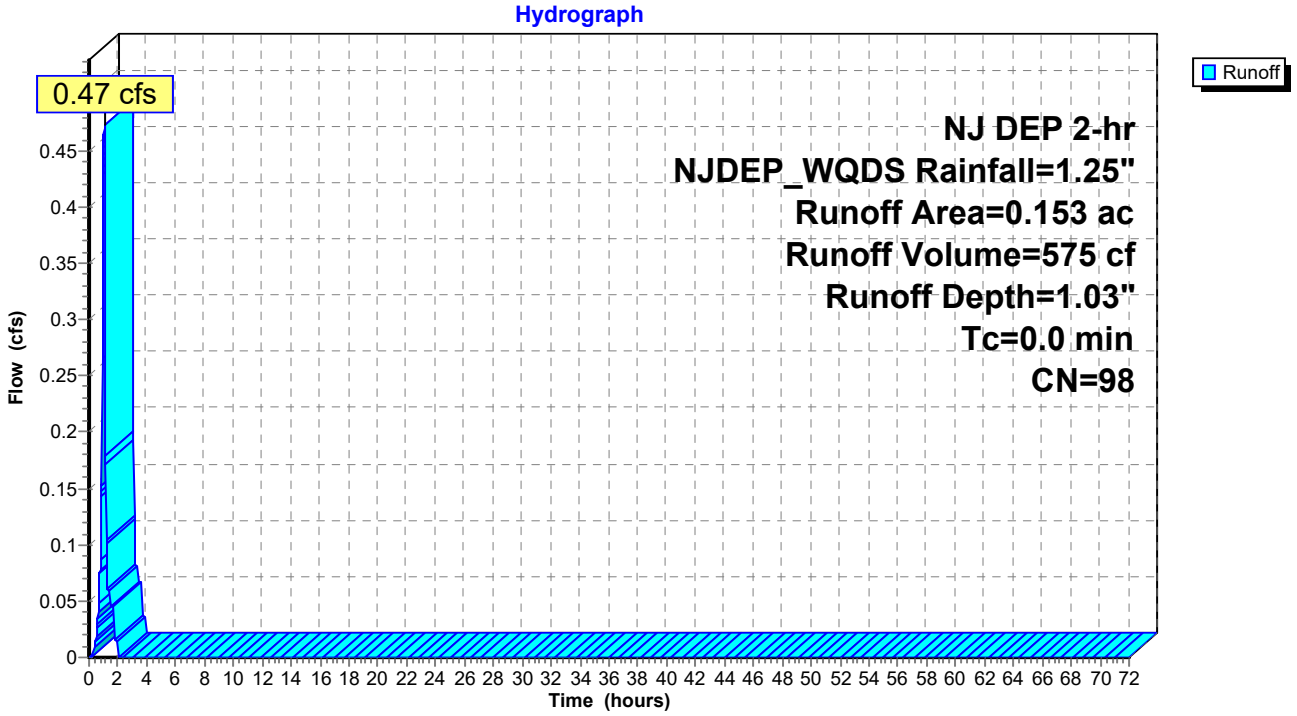
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.47 cfs @ 1.07 hrs, Volume= 575 cf, Depth= 1.03"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.153	98	direct rainfall
	0.153	98	100.00% Impervious Area

Subcatchment 56S: Direct Rainfall Basin 1B Forebay



Summary for Subcatchment 57S: Direct Rainfall Basin 4 Forebay

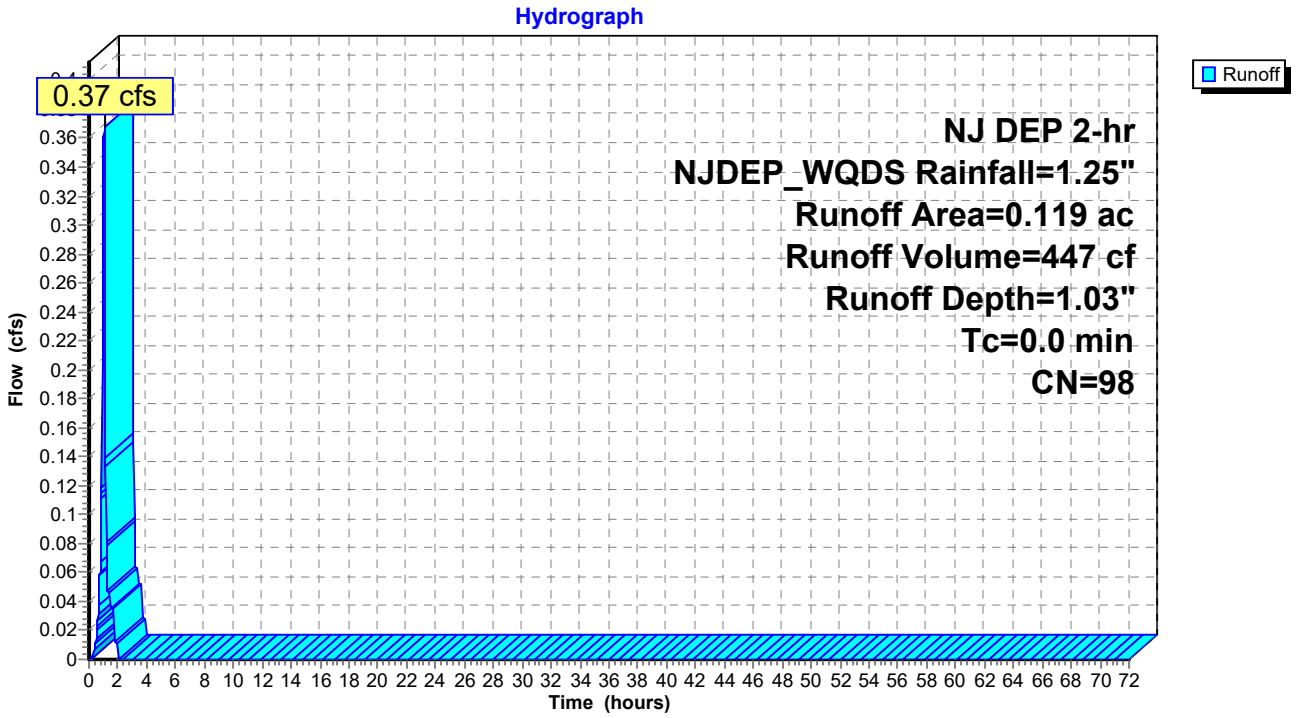
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.37 cfs @ 1.07 hrs, Volume= 447 cf, Depth= 1.03"
Routed to Pond 39P : Basin 4 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.119	98	direct rainfall
	0.119	98	100.00% Impervious Area

Subcatchment 57S: Direct Rainfall Basin 4 Forebay



Summary for Subcatchment 58S: Direct forest undeveloped runoff to basin

[45] Hint: Runoff=Zero

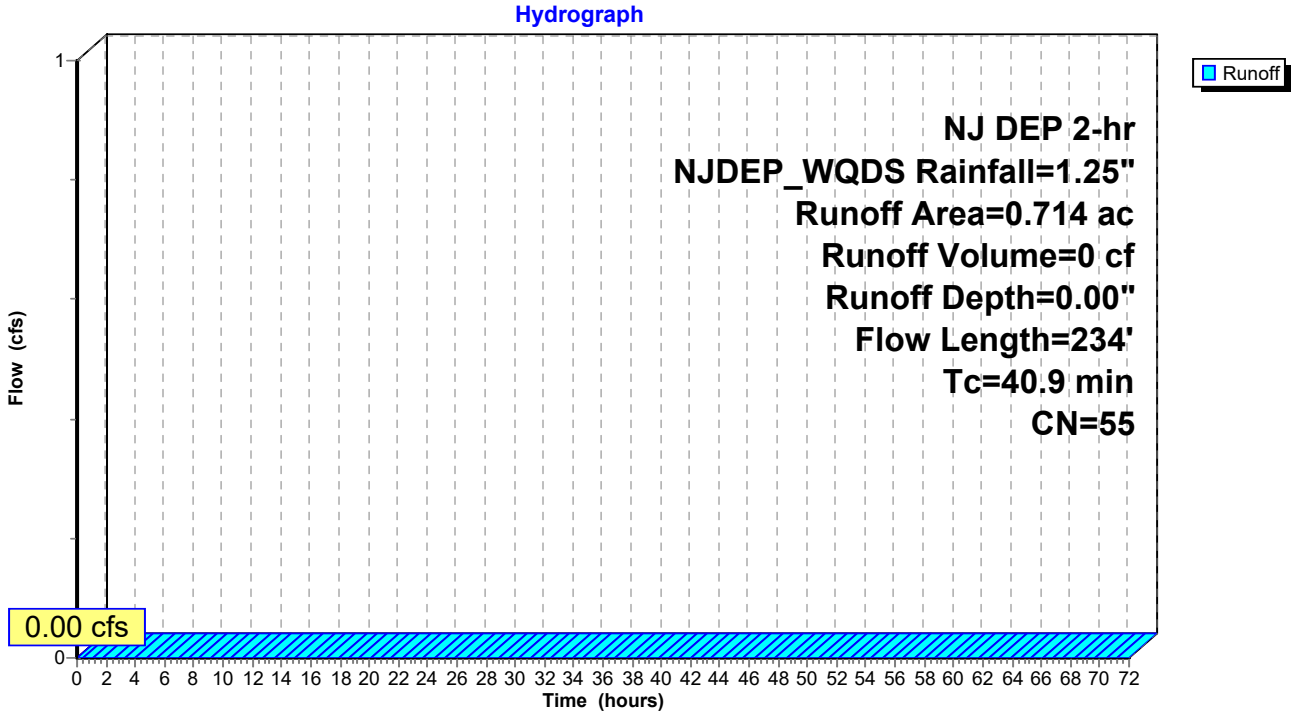
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
0.714	55	Woods, Good, HSG B
0.714	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	100	0.0200	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.40"
4.6	134	0.0370	0.48		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
40.9	234	Total			

Subcatchment 58S: Direct forest undeveloped runoff to basin



Summary for Subcatchment 59S: Direct Rainfall Basin 4 Infiltration

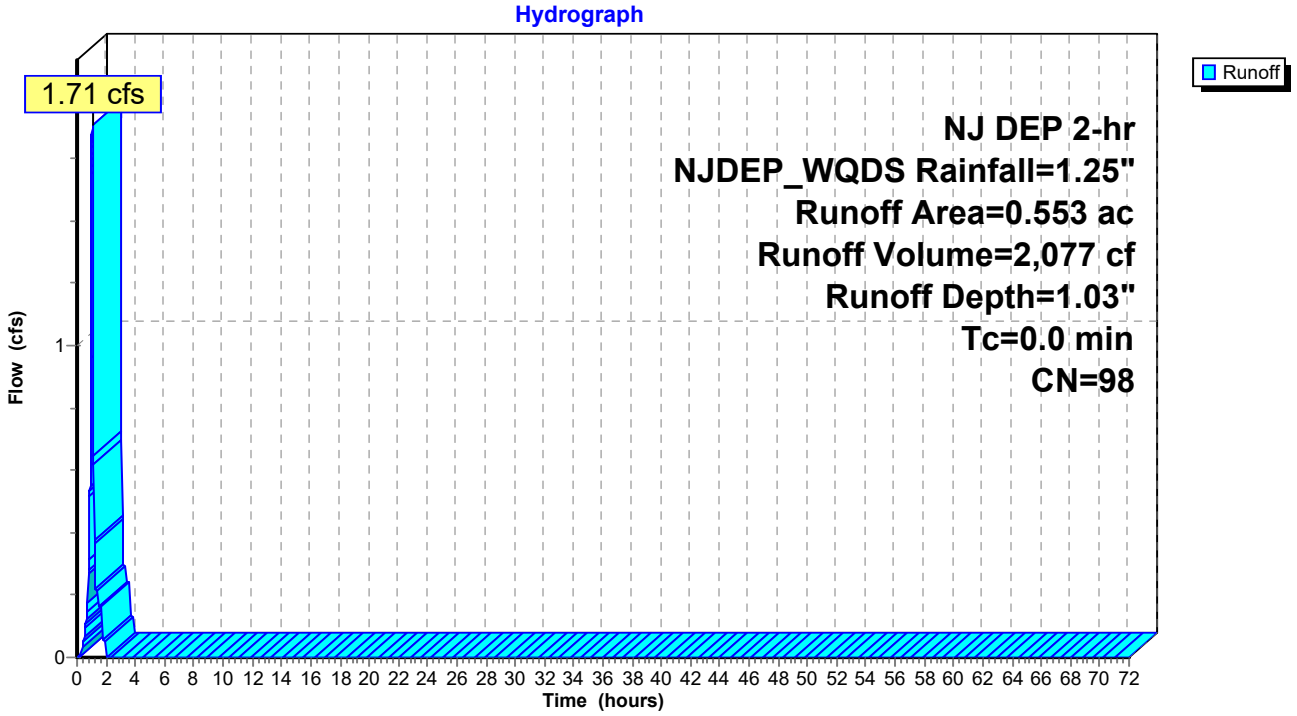
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.71 cfs @ 1.07 hrs, Volume= 2,077 cf, Depth= 1.03"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.553	98	direct rainfall
	0.553	98	100.00% Impervious Area

Subcatchment 59S: Direct Rainfall Basin 4 Infiltration



Summary for Subcatchment 62S: Direct Rainfall Basin 3 Infiltration

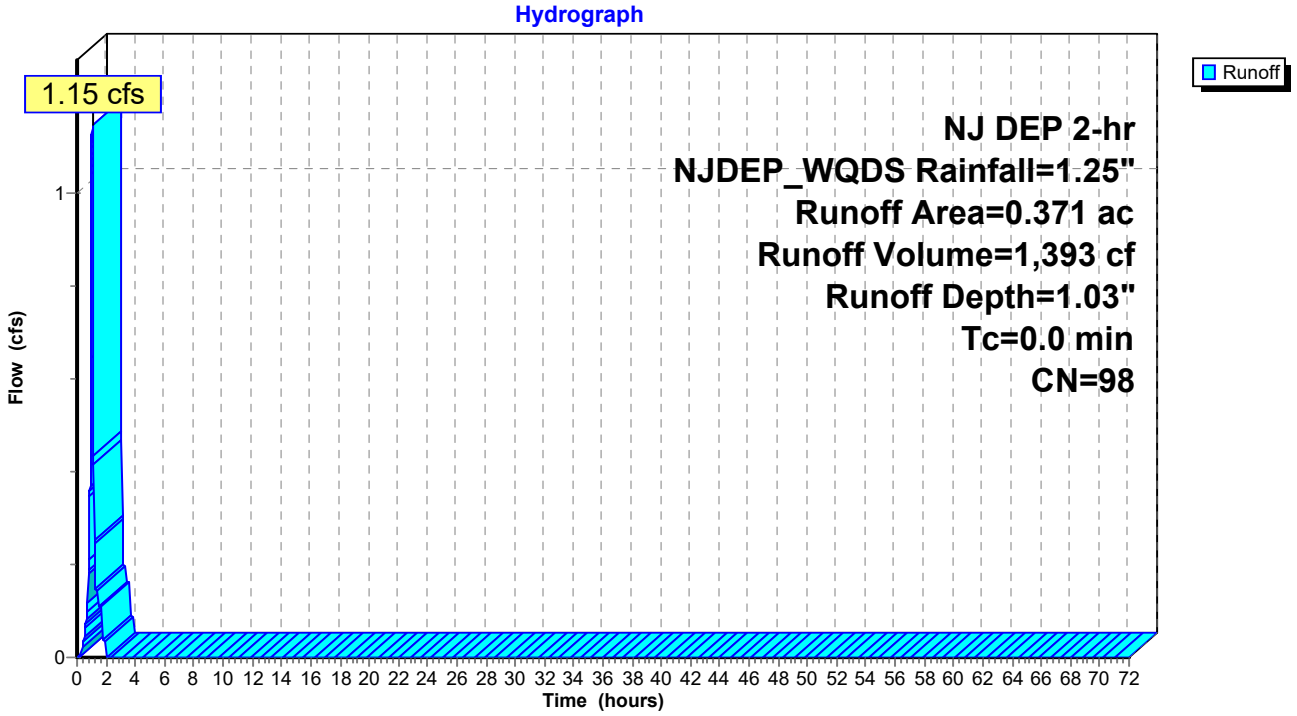
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.15 cfs @ 1.07 hrs, Volume= 1,393 cf, Depth= 1.03"
Routed to Pond 61P : Basin 3 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.371	98	
	0.371	98	100.00% Impervious Area

Subcatchment 62S: Direct Rainfall Basin 3 Infiltration



Summary for Subcatchment 65S: Direct Rainfall Basin 3 Bioretention

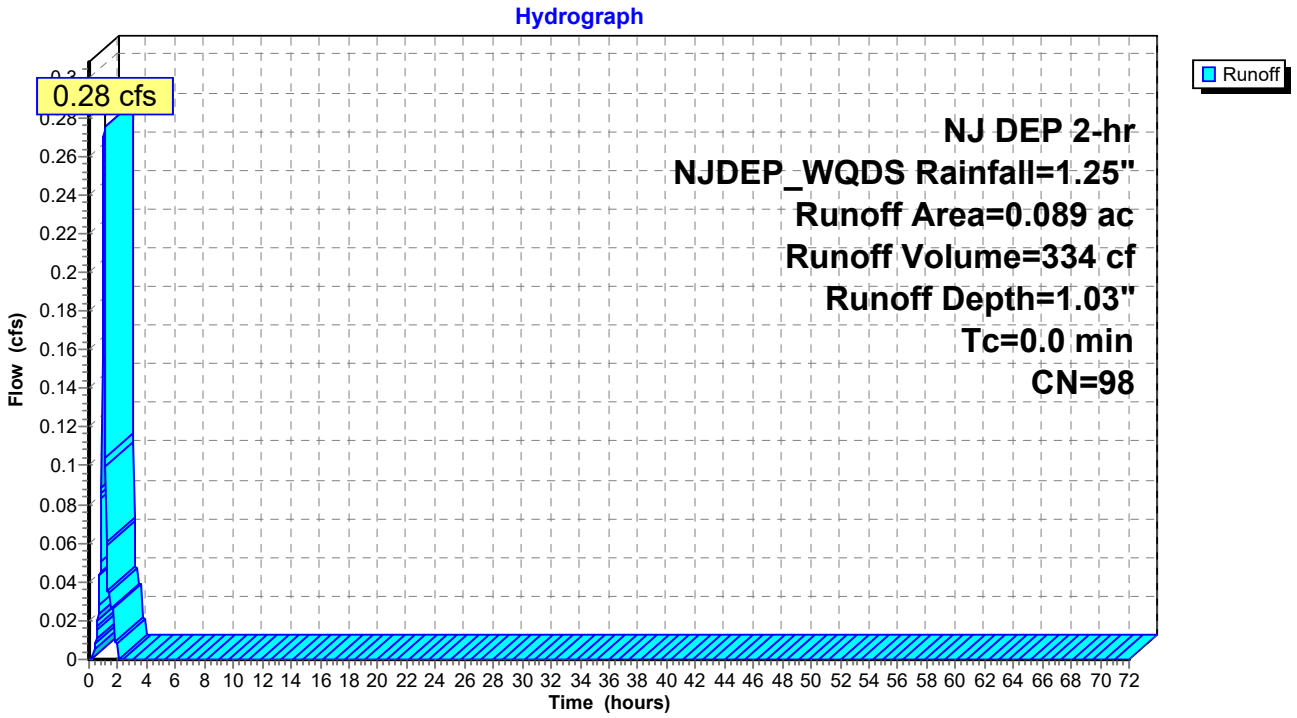
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.28 cfs @ 1.07 hrs, Volume= 334 cf, Depth= 1.03"
Routed to Pond 60P : Basin 3 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.089	98	
	0.089	98	100.00% Impervious Area

Subcatchment 65S: Direct Rainfall Basin 3 Bioretention



Summary for Subcatchment 69S: Direct Rainfall Basin 2B Forebay

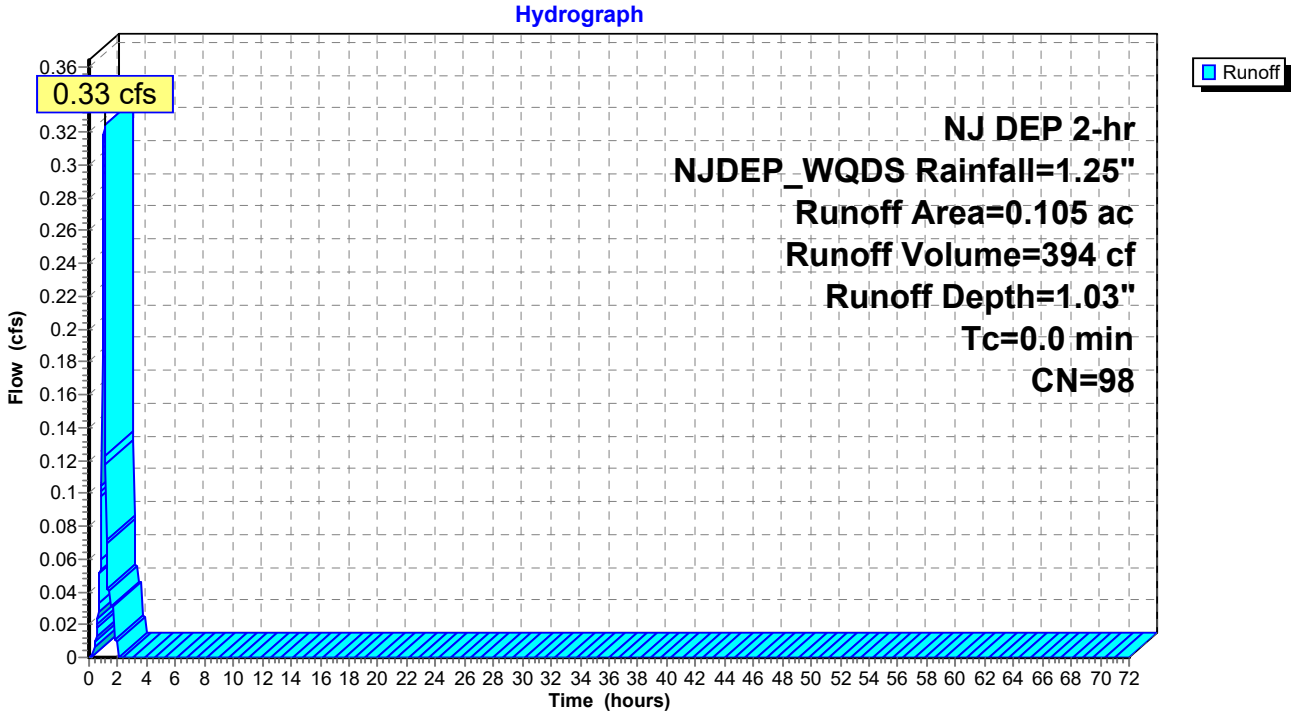
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.33 cfs @ 1.07 hrs, Volume= 394 cf, Depth= 1.03"
Routed to Pond 65P : Basin 2B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.105	98	direct rainfall
	0.105	98	100.00% Impervious Area

Subcatchment 69S: Direct Rainfall Basin 2B Forebay



Summary for Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin

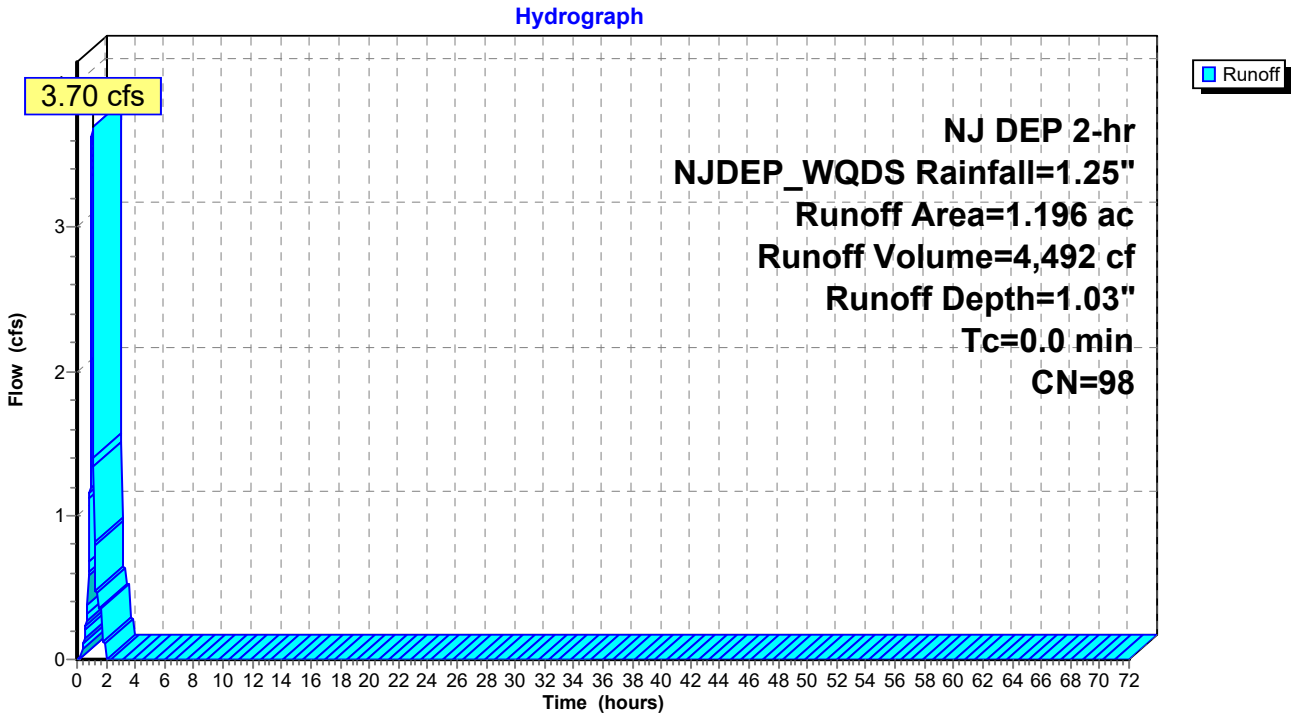
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.70 cfs @ 1.07 hrs, Volume= 4,492 cf, Depth= 1.03"
Routed to Pond 66P : Basin 2B Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	1.196	98	direct rainfall
	1.196	98	100.00% Impervious Area

Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin



Summary for Subcatchment 71S: Direct Rainfall to Bioretention

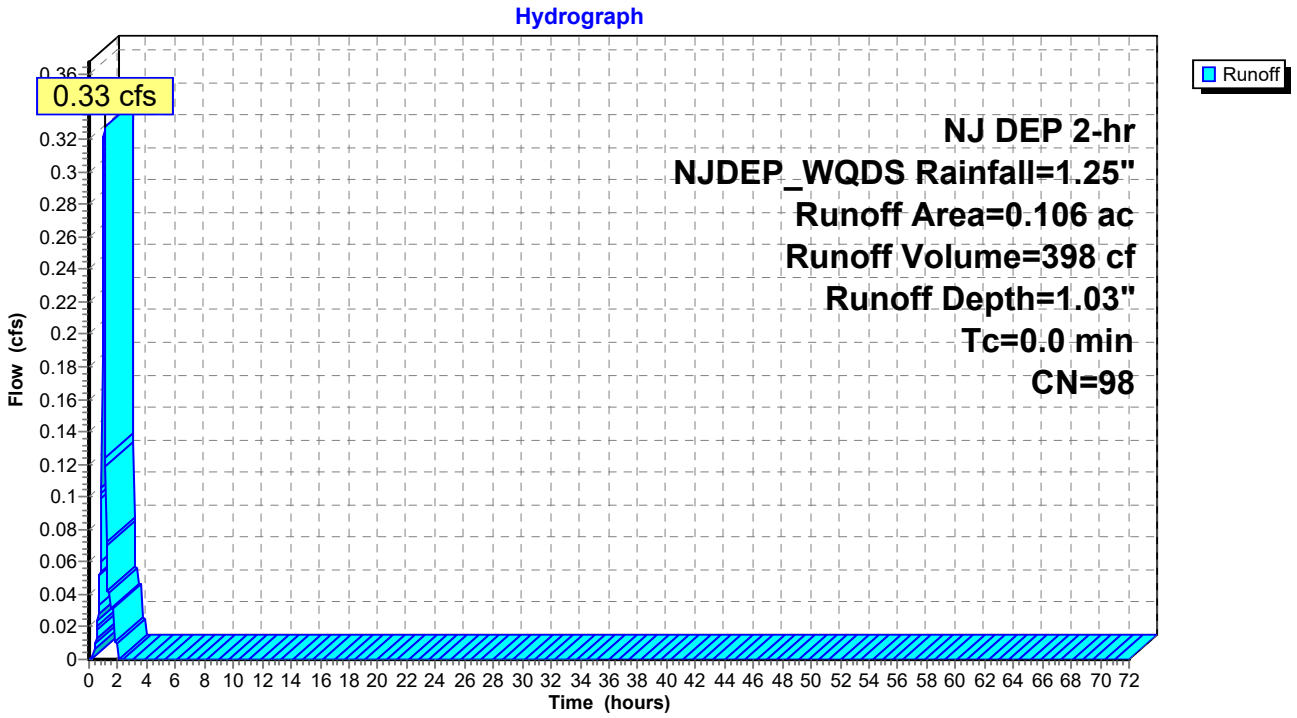
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.33 cfs @ 1.07 hrs, Volume= 398 cf, Depth= 1.03"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.106	98	direct rainfall to bioretention
	0.106	98	100.00% Impervious Area

Subcatchment 71S: Direct Rainfall to Bioretention



Summary for Subcatchment 74S: Direct forest runoff to infiltration basin

[45] Hint: Runoff=Zero

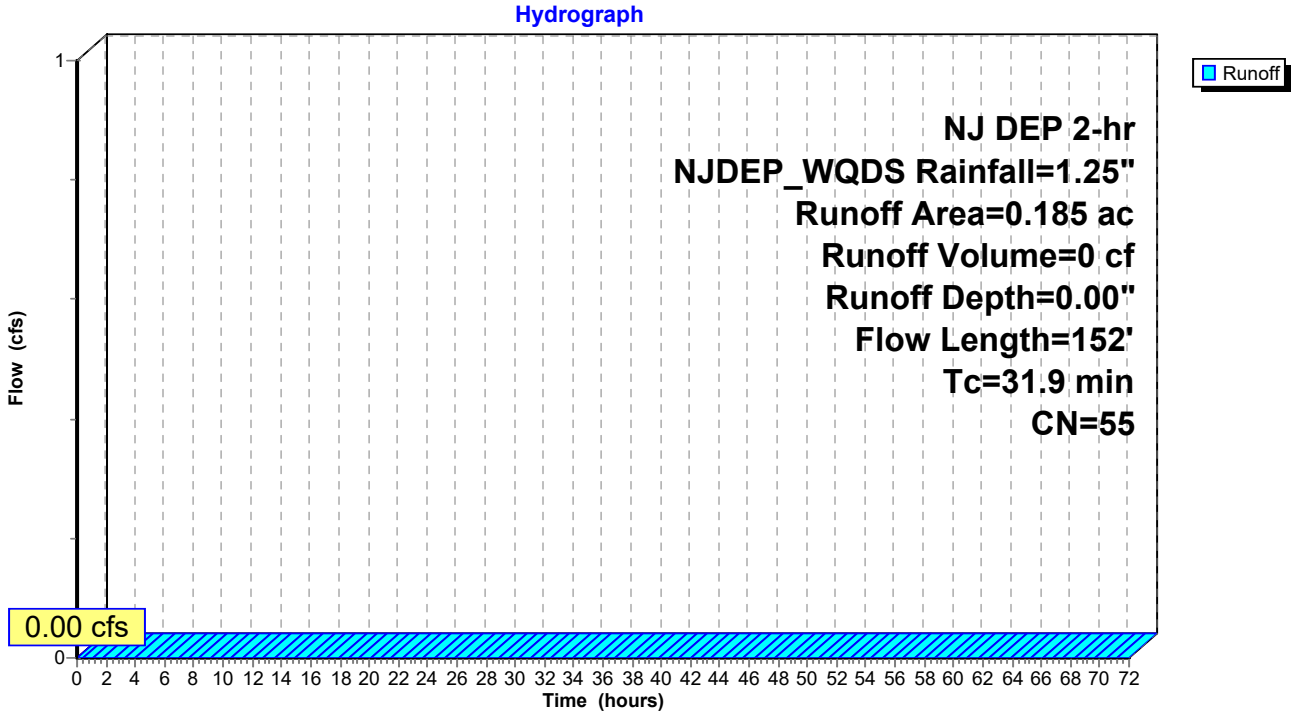
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
0.185	55	Woods, Good, HSG B
0.185	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.8	100	0.0300	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 3.40"
1.1	52	0.1000	0.79		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
31.9	152	Total			

Subcatchment 74S: Direct forest runoff to infiltration basin



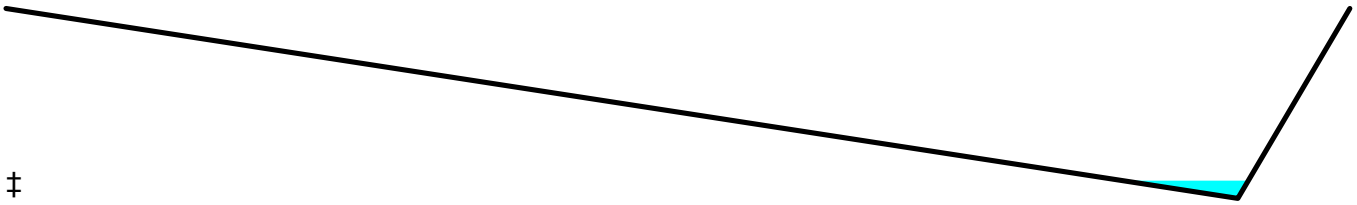
Summary for Reach 29R: DA1A East Swale

Inflow Area = 182,579 sf, 6.17% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.55 cfs @ 1.22 hrs, Volume= 971 cf
Outflow = 0.21 cfs @ 2.19 hrs, Volume= 971 cf, Atten= 63%, Lag= 58.1 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.33 fps, Min. Travel Time= 42.5 min
Avg. Velocity = 0.11 fps, Avg. Travel Time= 130.9 min

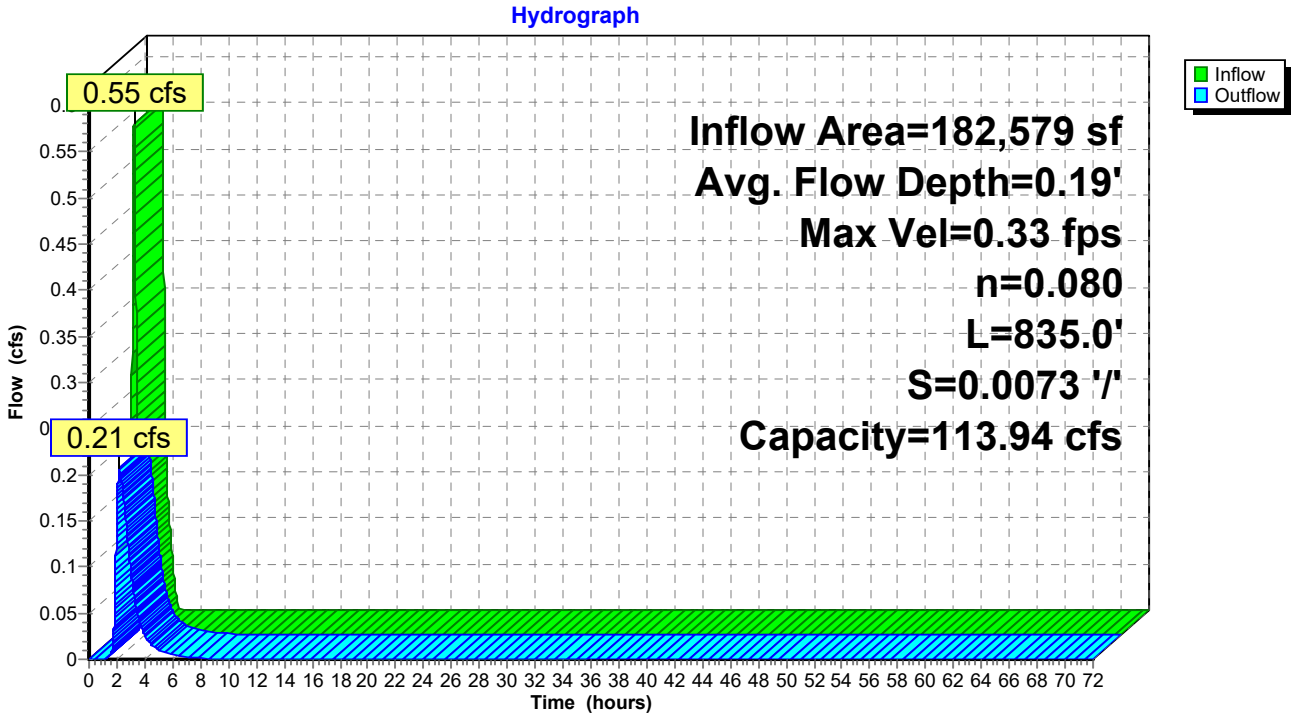
Peak Storage= 528 cf @ 1.48 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 6.74'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 113.94 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 835.0' Slope= 0.0073 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 29R: DA1A East Swale



Summary for Reach 30R: DA1A West Swale

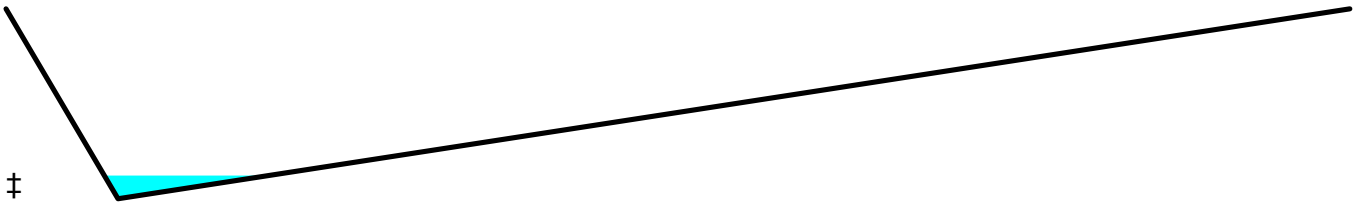
[62] Hint: Exceeded Reach 41R OUTLET depth by 0.21' @ 1.38 hrs

Inflow Area = 324,304 sf, 6.25% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.74 cfs @ 1.24 hrs, Volume= 1,746 cf
Outflow = 0.30 cfs @ 2.13 hrs, Volume= 1,746 cf, Atten= 59%, Lag= 53.7 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.28 fps, Min. Travel Time= 38.3 min
Avg. Velocity = 0.09 fps, Avg. Travel Time= 127.0 min

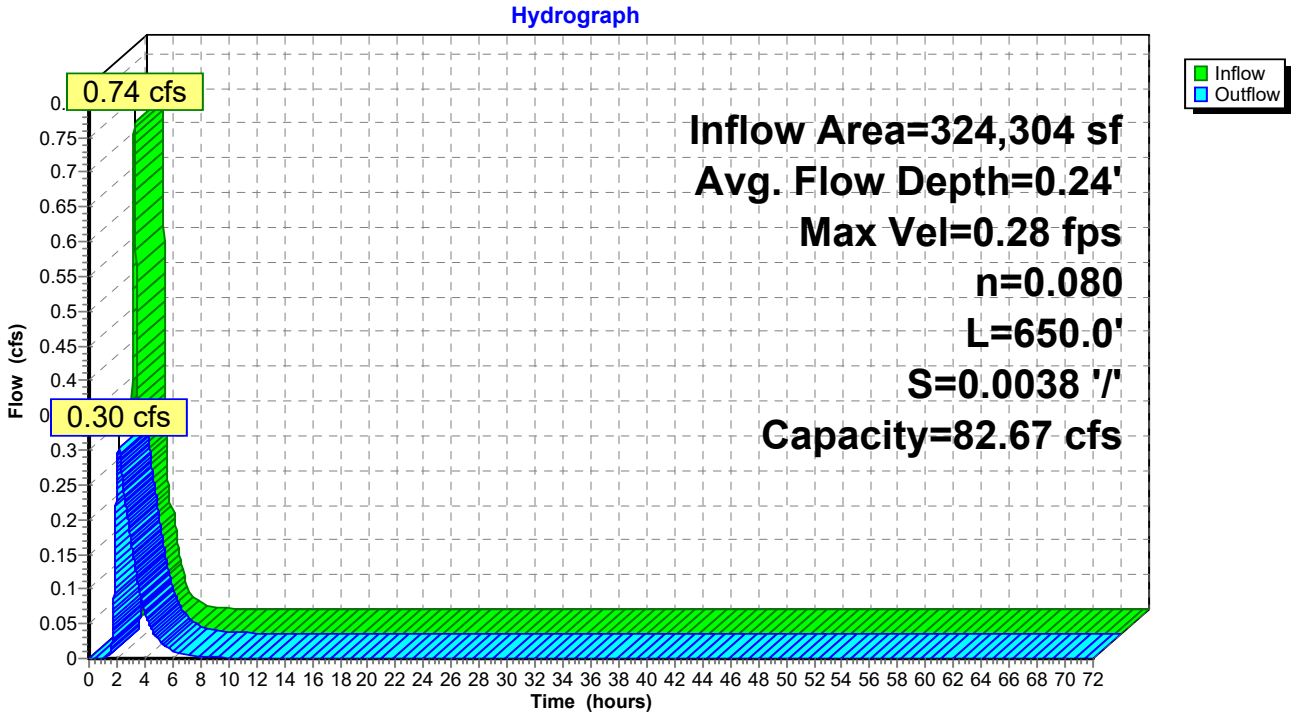
Peak Storage= 698 cf @ 1.50 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 8.79'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 82.67 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 650.0' Slope= 0.0038 '/'
Inlet Invert= 162.50', Outlet Invert= 160.00'



‡

Reach 30R: DA1A West Swale



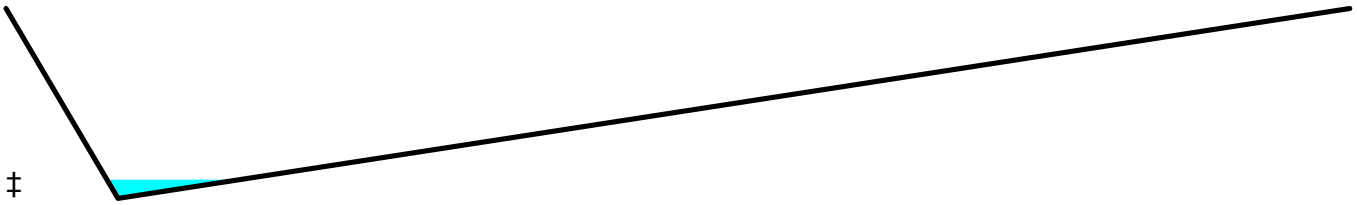
Summary for Reach 31R: DA2B East Swale

Inflow Area = 195,980 sf, 6.17% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.58 cfs @ 1.23 hrs, Volume= 1,042 cf
Outflow = 0.25 cfs @ 2.04 hrs, Volume= 1,042 cf, Atten= 56%, Lag= 48.2 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.36 fps, Min. Travel Time= 34.1 min
Avg. Velocity = 0.12 fps, Avg. Travel Time= 105.9 min

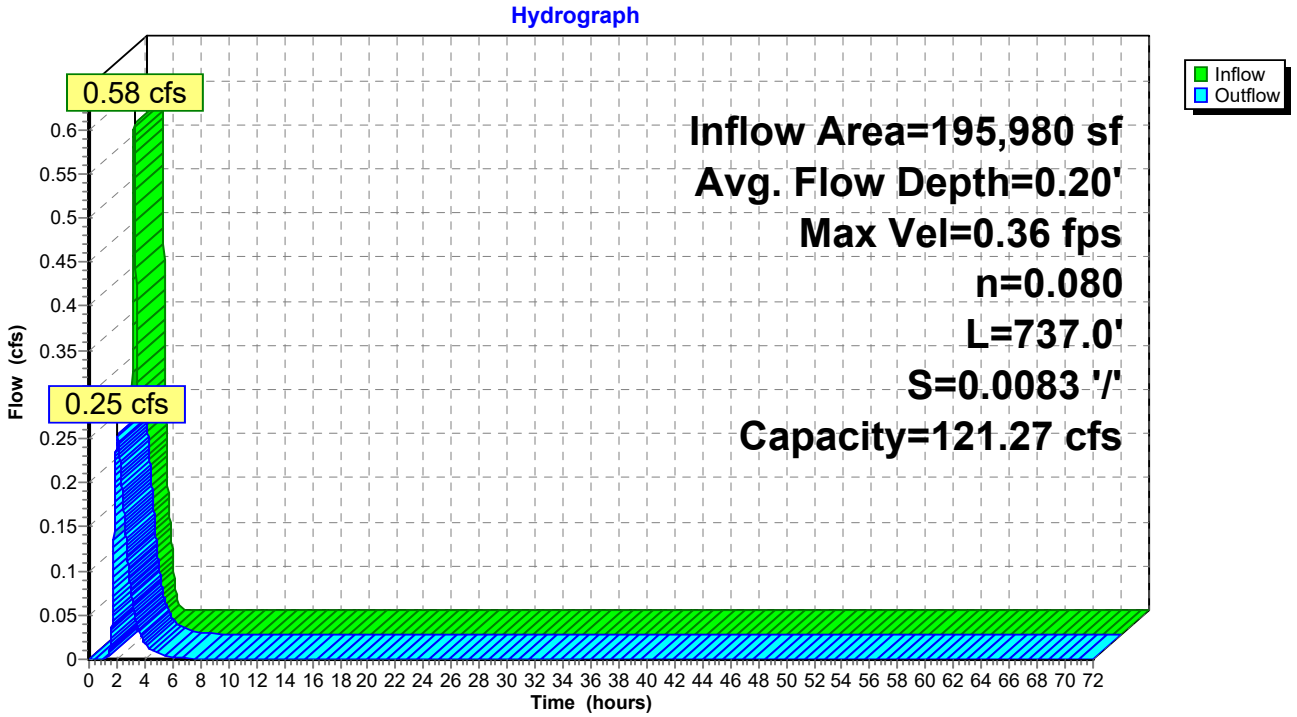
Peak Storage= 518 cf @ 1.47 hrs
Average Depth at Peak Storage= 0.20' , Surface Width= 7.11'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 121.27 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 737.0' Slope= 0.0083 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 31R: DA2B East Swale



Summary for Reach 33R: DA2B West Swale

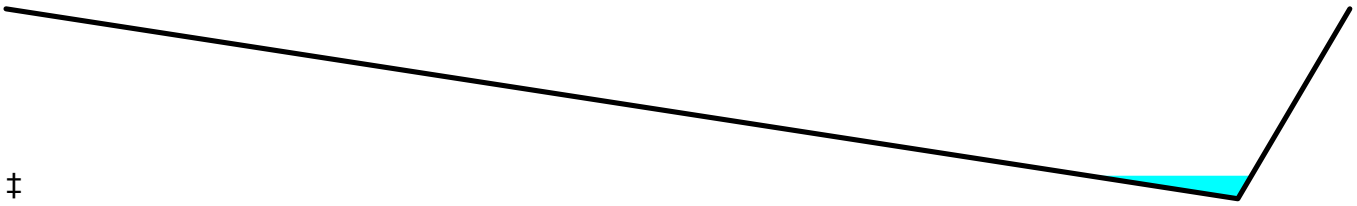
[61] Hint: Exceeded Reach 45R outlet invert by 0.24' @ 1.42 hrs

Inflow Area = 182,604 sf, 6.25% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.54 cfs @ 1.23 hrs, Volume= 984 cf
Outflow = 0.30 cfs @ 1.80 hrs, Volume= 984 cf, Atten= 44%, Lag= 33.8 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.28 fps, Min. Travel Time= 22.5 min
Avg. Velocity = 0.09 fps, Avg. Travel Time= 74.7 min

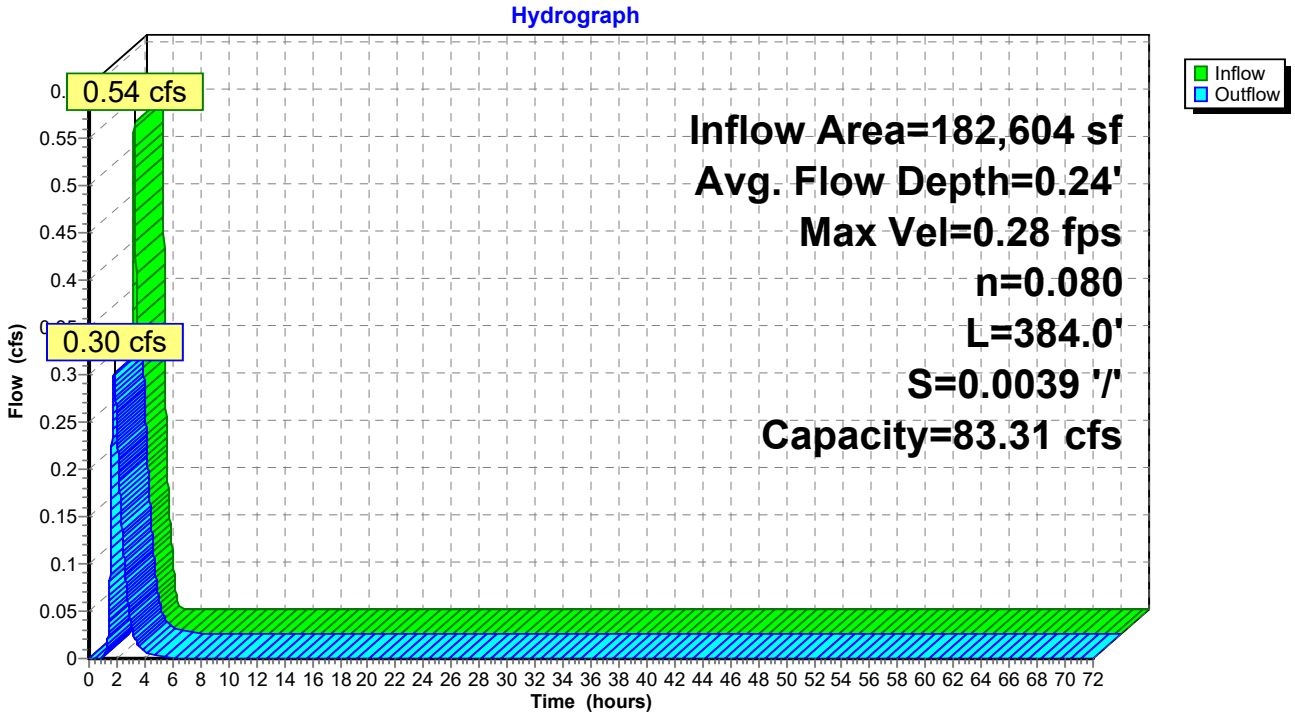
Peak Storage= 408 cf @ 1.42 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 8.75'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 83.31 cfs

0.00' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 384.0' Slope= 0.0039 '/'
Inlet Invert= 162.50', Outlet Invert= 161.00'



‡

Reach 33R: DA2B West Swale



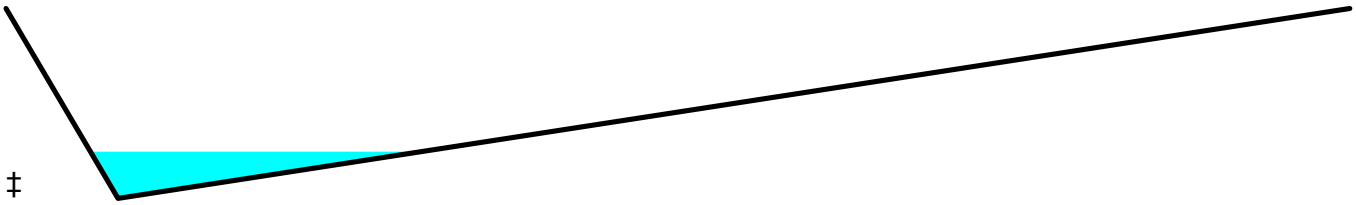
Summary for Reach 34R: DA4 West Swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 0.68" for NJDEP_WQDS event
Inflow = 3.25 cfs @ 1.08 hrs, Volume= 3,962 cf
Outflow = 2.05 cfs @ 1.32 hrs, Volume= 3,962 cf, Atten= 37%, Lag= 14.7 min
Routed to Reach 43R : DA4 Roadside swale

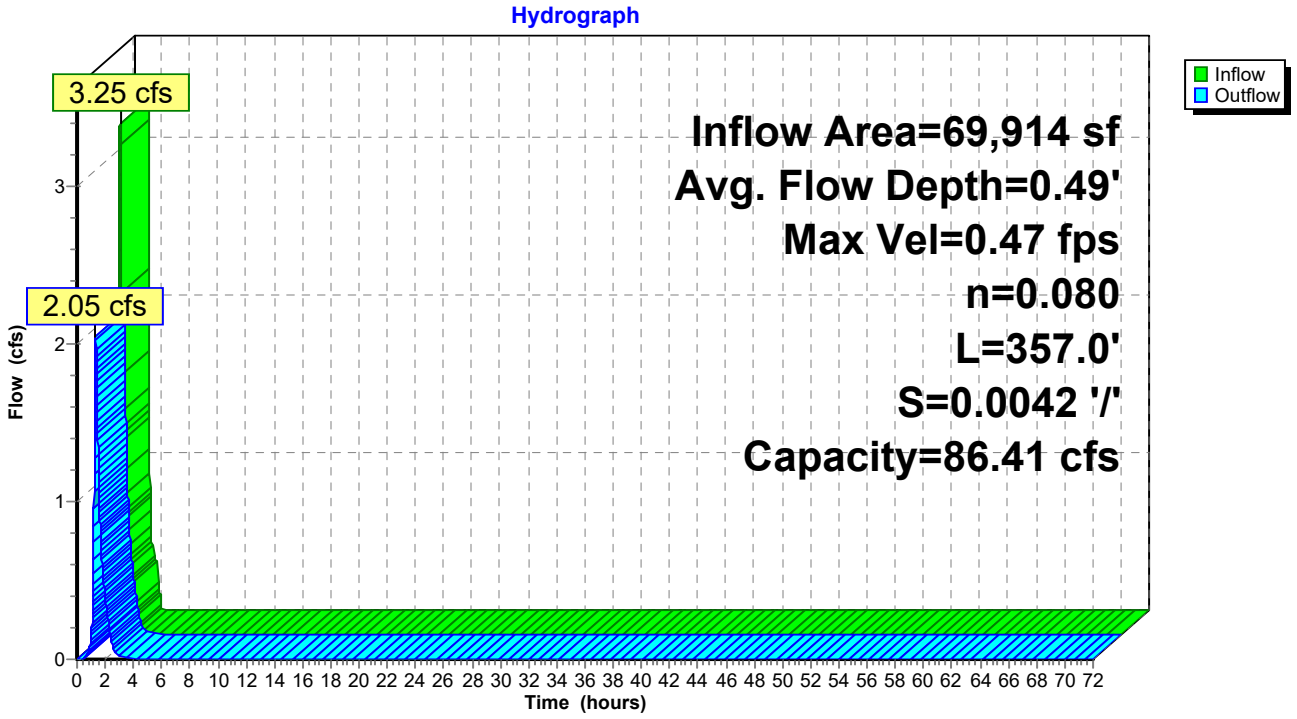
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.47 fps, Min. Travel Time= 12.6 min
Avg. Velocity = 0.11 fps, Avg. Travel Time= 56.6 min

Peak Storage= 1,553 cf @ 1.11 hrs
Average Depth at Peak Storage= 0.49' , Surface Width= 17.69'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 86.41 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 357.0' Slope= 0.0042 '/'
Inlet Invert= 163.50', Outlet Invert= 162.00'



‡



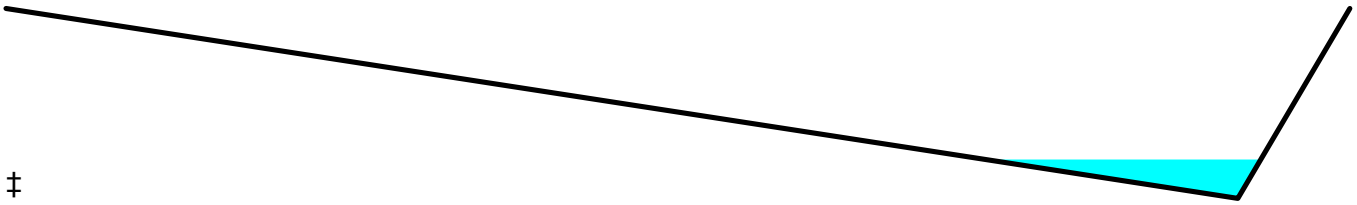
Summary for Reach 35R: DA2A West Swale

Inflow Area = 55,016 sf, 69.91% Impervious, Inflow Depth = 0.72" for NJDEP_WQDS event
Inflow = 2.71 cfs @ 1.08 hrs, Volume= 3,316 cf
Outflow = 1.46 cfs @ 1.40 hrs, Volume= 3,316 cf, Atten= 46%, Lag= 19.3 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.48 fps, Min. Travel Time= 16.5 min
Avg. Velocity = 0.11 fps, Avg. Travel Time= 69.9 min

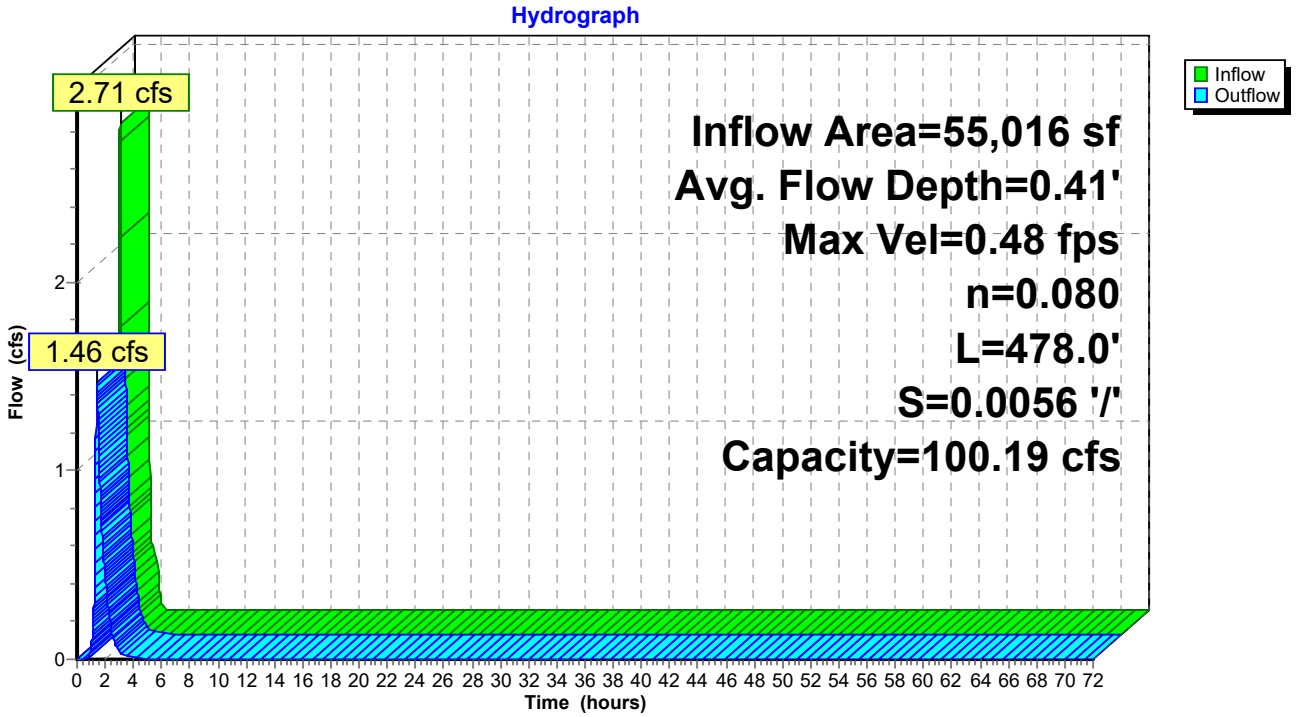
Peak Storage= 1,446 cf @ 1.13 hrs
Average Depth at Peak Storage= 0.41' , Surface Width= 14.76'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 100.19 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 478.0' Slope= 0.0056 '/'
Inlet Invert= 162.20', Outlet Invert= 159.50'



‡

Reach 35R: DA2A West Swale



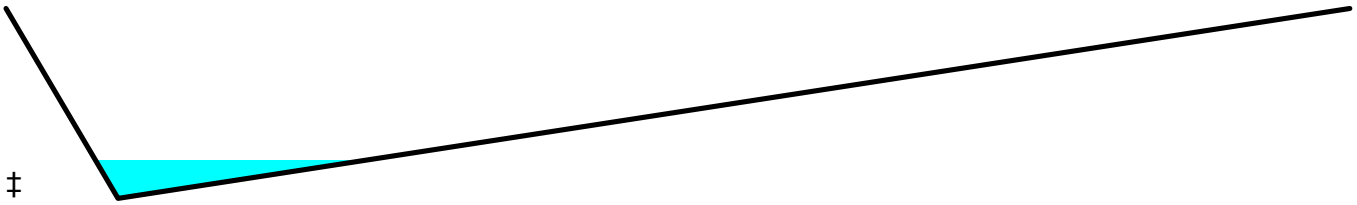
Summary for Reach 36R: DA2A East Swale

Inflow Area = 51,183 sf, 71.06% Impervious, Inflow Depth = 0.74" for NJDEP_WQDS event
Inflow = 2.55 cfs @ 1.09 hrs, Volume= 3,136 cf
Outflow = 2.44 cfs @ 1.15 hrs, Volume= 3,136 cf, Atten= 4%, Lag= 4.0 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.83 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 0.29 fps, Avg. Travel Time= 8.4 min

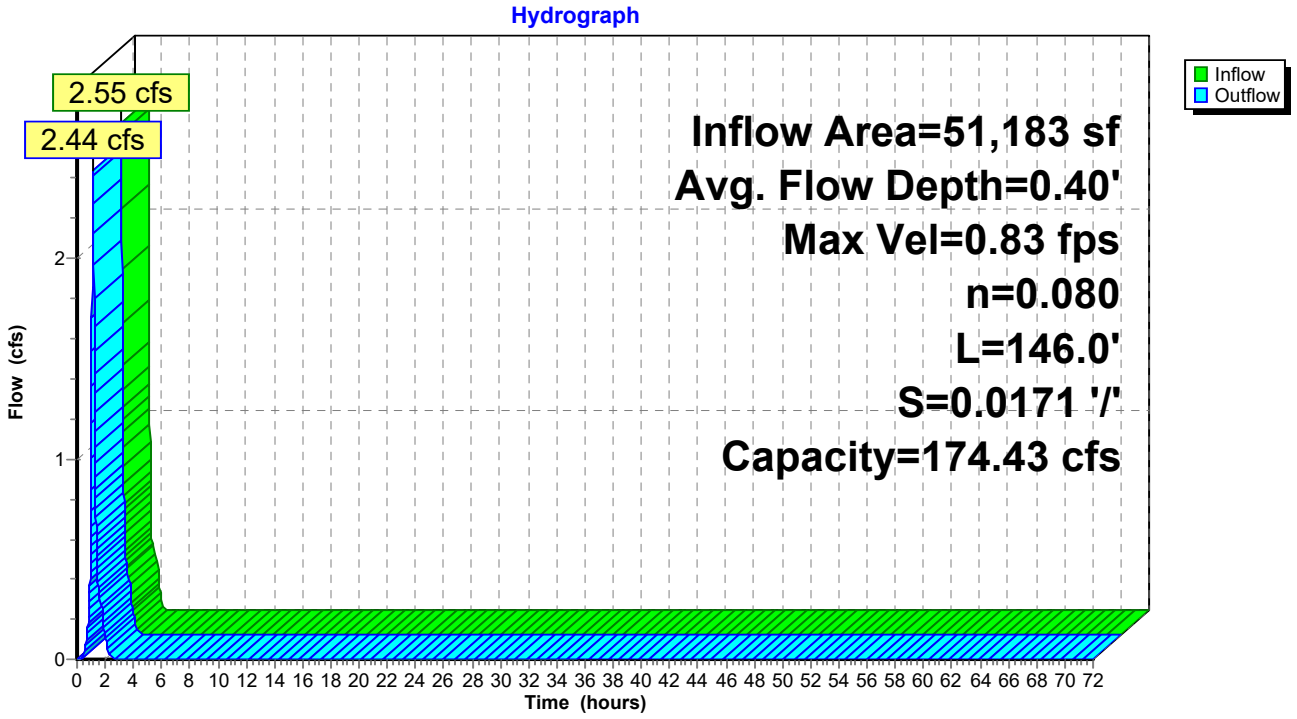
Peak Storage= 428 cf @ 1.11 hrs
Average Depth at Peak Storage= 0.40' , Surface Width= 14.53'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 174.43 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 146.0' Slope= 0.0171 '/'
Inlet Invert= 162.00', Outlet Invert= 159.50'



‡

Reach 36R: DA2A East Swale



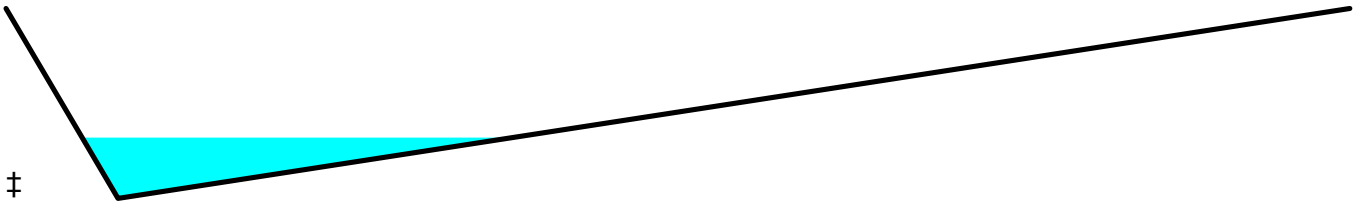
Summary for Reach 37R: DA1B Swale

Inflow Area = 104,152 sf, 91.22% Impervious, Inflow Depth = 0.94" for NJDEP_WQDS event
Inflow = 6.68 cfs @ 1.09 hrs, Volume= 8,191 cf
Outflow = 4.61 cfs @ 1.30 hrs, Volume= 8,191 cf, Atten= 31%, Lag= 12.7 min
Routed to Pond 18P : Basin 1B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.63 fps, Min. Travel Time= 10.2 min
Avg. Velocity = 0.13 fps, Avg. Travel Time= 50.0 min

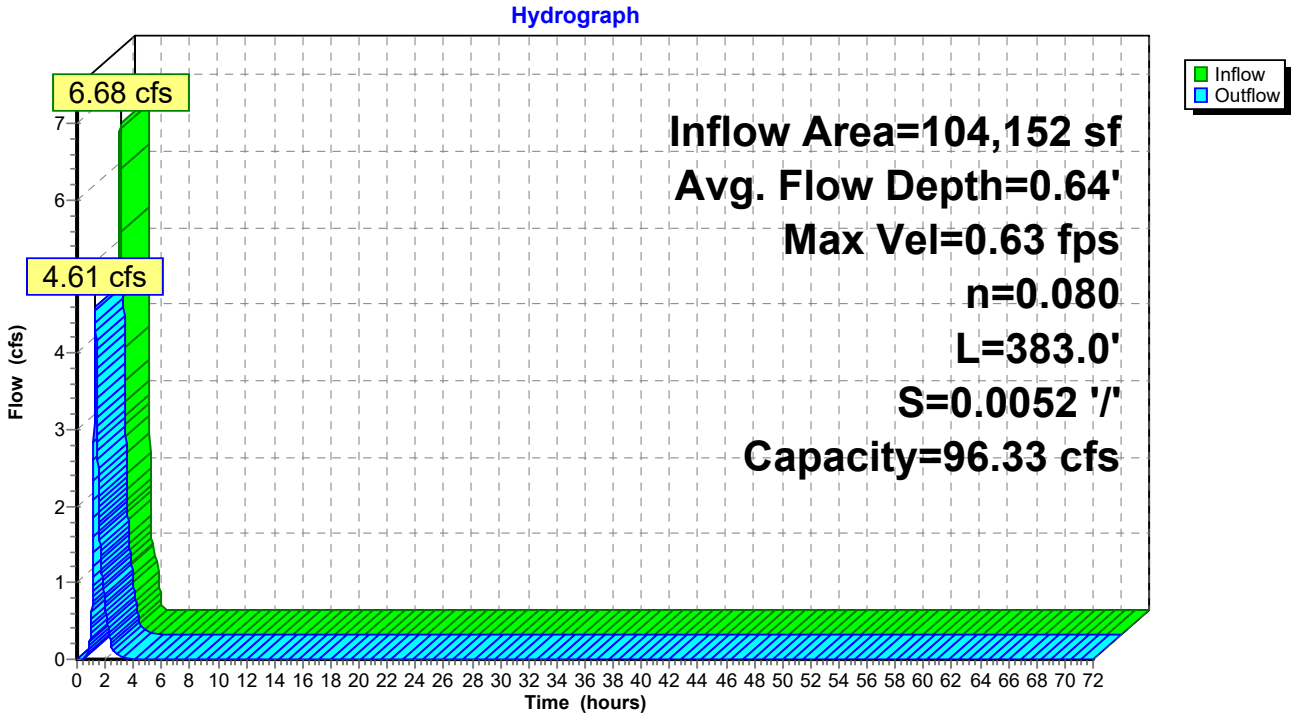
Peak Storage= 2,823 cf @ 1.13 hrs
Average Depth at Peak Storage= 0.64' , Surface Width= 23.03'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 96.33 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 383.0' Slope= 0.0052 '/'
Inlet Invert= 162.00', Outlet Invert= 160.00'



‡

Reach 37R: DA1B Swale



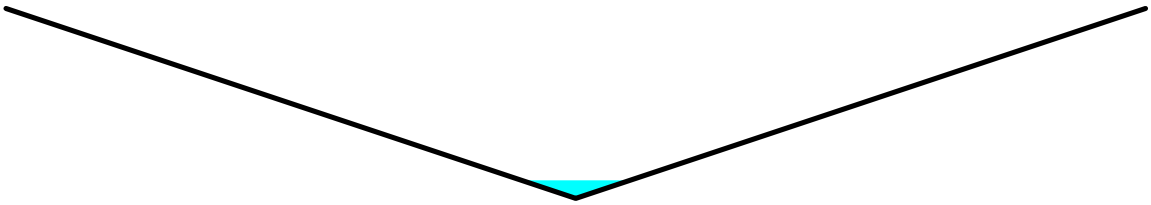
Summary for Reach 38R: DA3 Swale

Inflow Area = 105,764 sf, 0.00% Impervious, Inflow Depth = 0.04" for NJDEP_WQDS event
Inflow = 0.12 cfs @ 1.38 hrs, Volume= 317 cf
Outflow = 0.11 cfs @ 1.70 hrs, Volume= 317 cf, Atten= 12%, Lag= 19.3 min
Routed to Pond 38P : Basin 3 Forebay

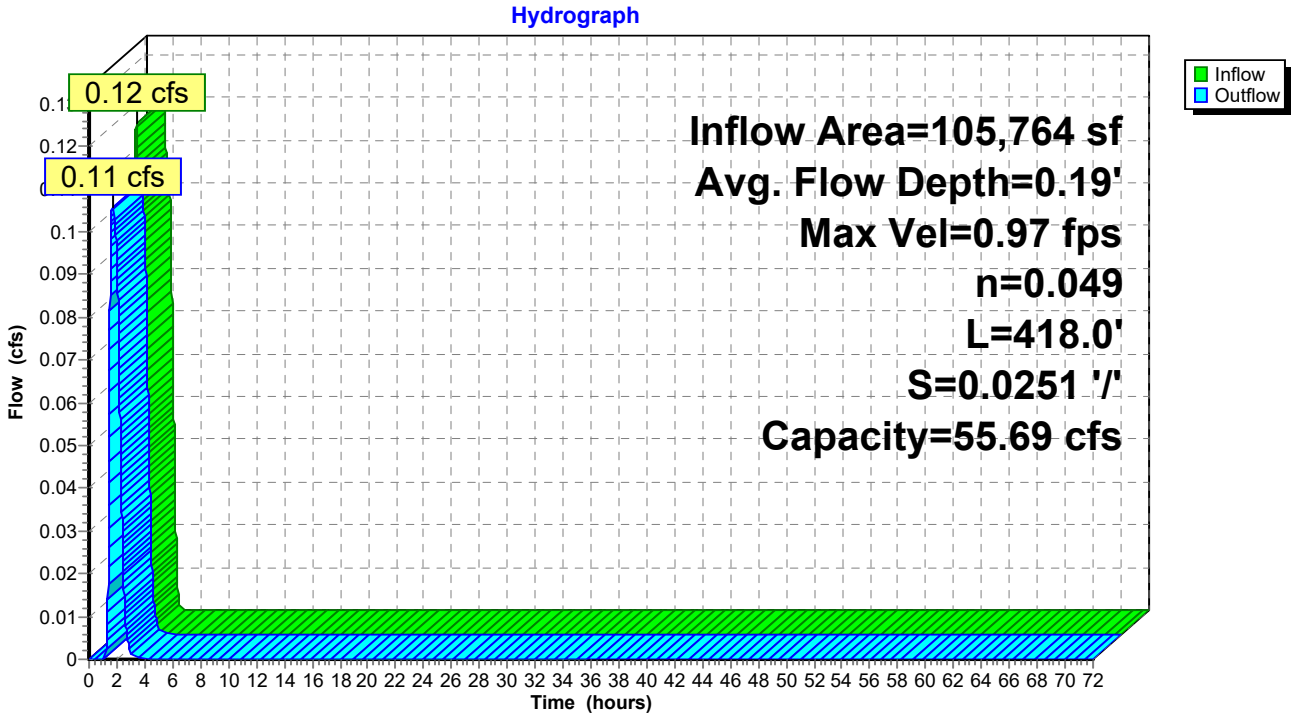
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.97 fps, Min. Travel Time= 7.2 min
Avg. Velocity = 0.47 fps, Avg. Travel Time= 14.9 min

Peak Storage= 46 cf @ 1.58 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 1.14'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 55.69 cfs

0.00' x 2.00' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 418.0' Slope= 0.0251 '/'
Inlet Invert= 158.50', Outlet Invert= 148.00'



Reach 38R: DA3 Swale



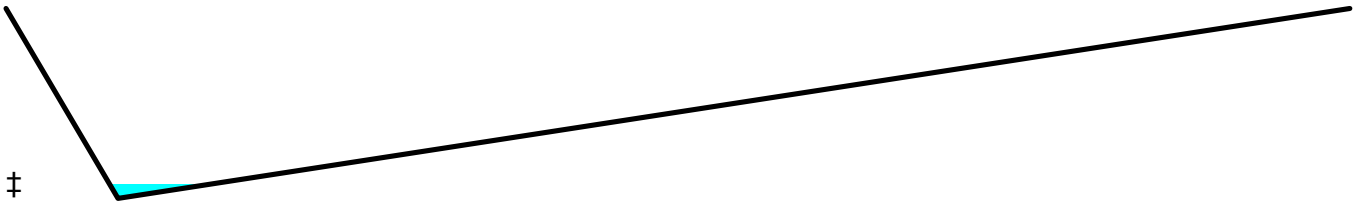
Summary for Reach 39R: DA 1A Central Swale A

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.24 cfs @ 1.20 hrs, Volume= 398 cf
Outflow = 0.10 cfs @ 2.01 hrs, Volume= 398 cf, Atten= 59%, Lag= 48.8 min
Routed to Reach 41R : DA 1A Central Swale B

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.24 fps, Min. Travel Time= 35.2 min
Avg. Velocity = 0.09 fps, Avg. Travel Time= 96.8 min

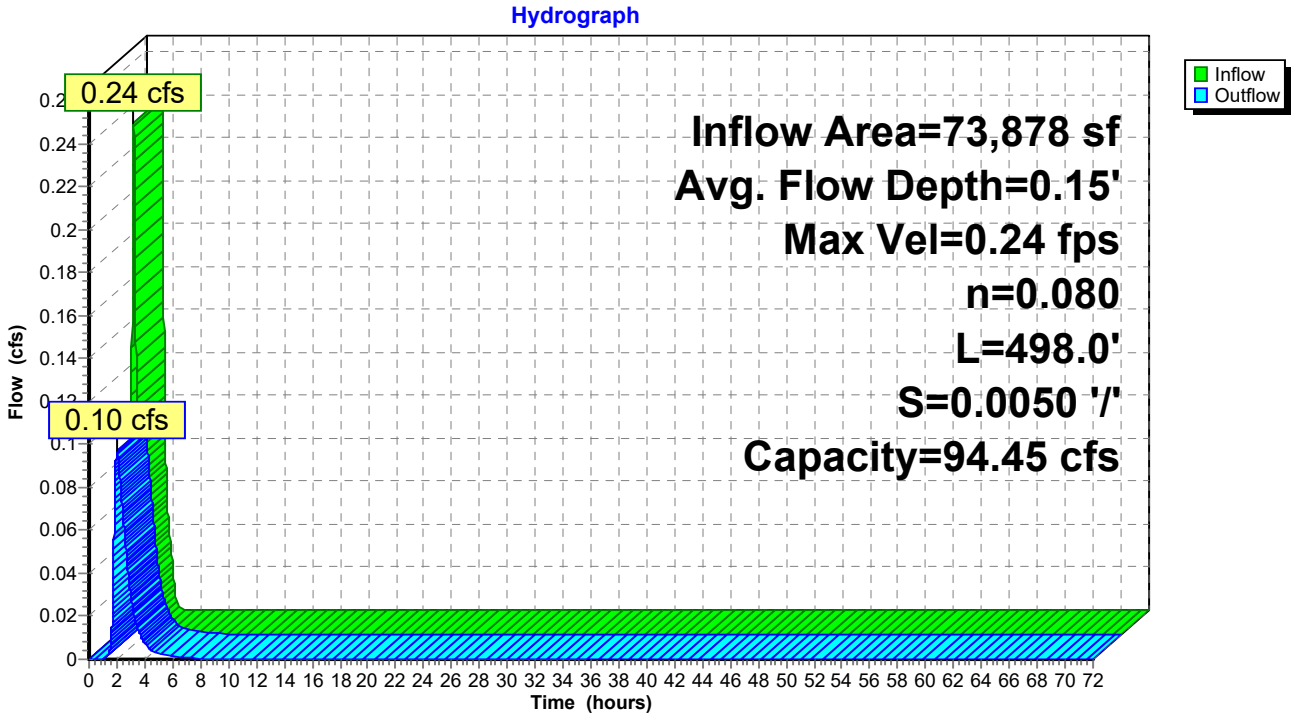
Peak Storage= 205 cf @ 1.42 hrs
Average Depth at Peak Storage= 0.15' , Surface Width= 5.43'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 94.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 498.0' Slope= 0.0050 '/'
Inlet Invert= 171.00', Outlet Invert= 168.50'



‡

Reach 39R: DA 1A Central Swale A



Summary for Reach 41R: DA 1A Central Swale B

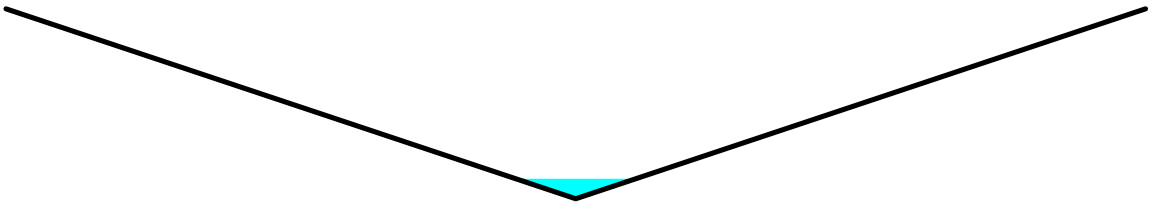
[62] Hint: Exceeded Reach 39R OUTLET depth by 0.10' @ 2.24 hrs

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.10 cfs @ 2.01 hrs, Volume= 398 cf
Outflow = 0.09 cfs @ 2.15 hrs, Volume= 398 cf, Atten= 2%, Lag= 8.5 min
Routed to Reach 30R : DA1A West Swale

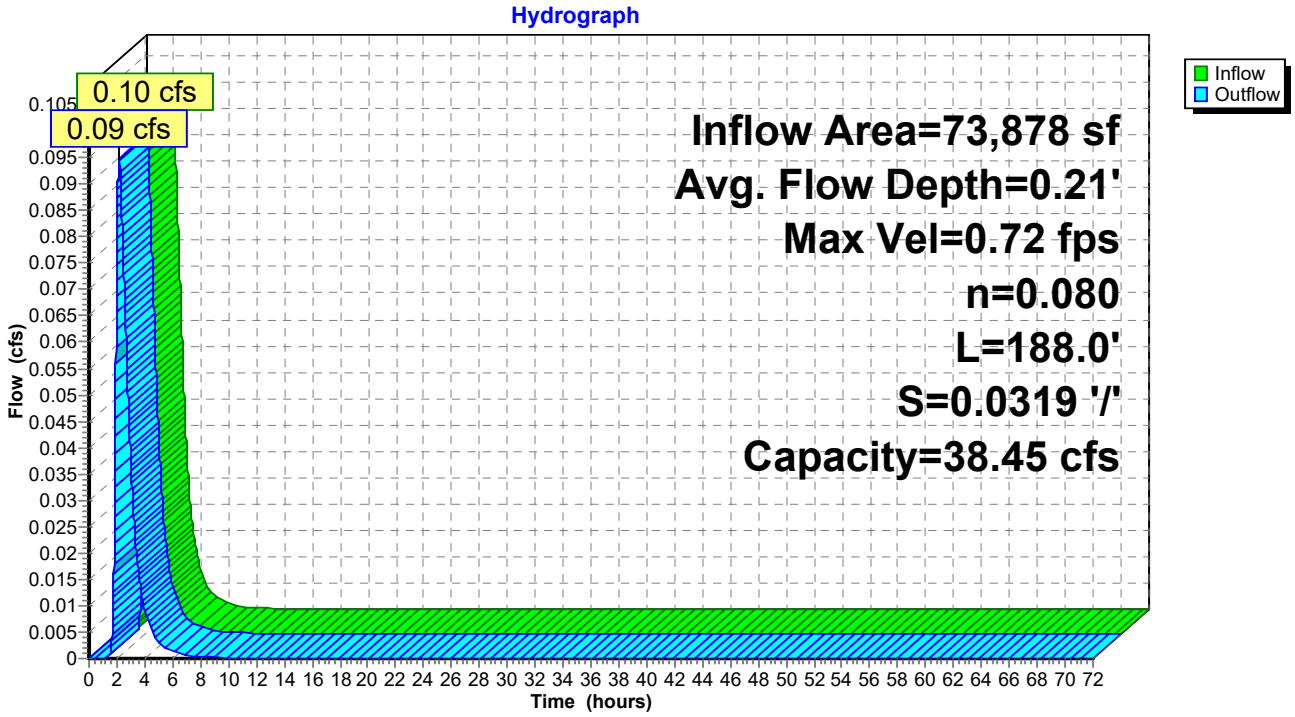
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.72 fps, Min. Travel Time= 4.4 min
Avg. Velocity = 0.25 fps, Avg. Travel Time= 12.3 min

Peak Storage= 25 cf @ 2.08 hrs
Average Depth at Peak Storage= 0.21' , Surface Width= 1.26'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 38.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 188.0' Slope= 0.0319 '/'
Inlet Invert= 168.50', Outlet Invert= 162.50'



Reach 41R: DA 1A Central Swale B



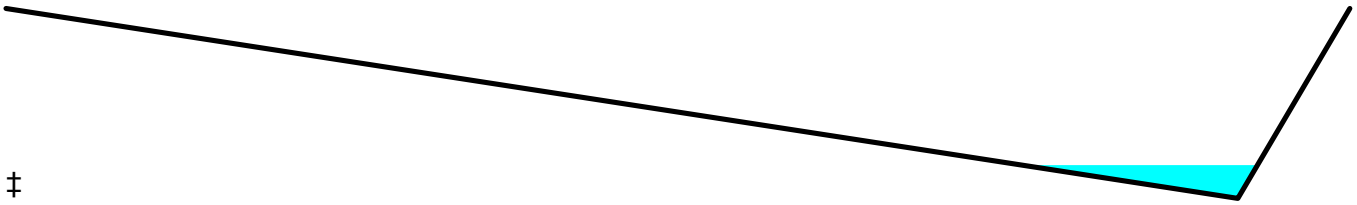
Summary for Reach 42R: DA4 East Swale

Inflow Area = 37,810 sf, 57.37% Impervious, Inflow Depth = 0.59" for NJDEP_WQDS event
Inflow = 1.52 cfs @ 1.09 hrs, Volume= 1,870 cf
Outflow = 1.46 cfs @ 1.15 hrs, Volume= 1,870 cf, Atten= 4%, Lag= 3.8 min
Routed to Pond 39P : Basin 4 Forebay

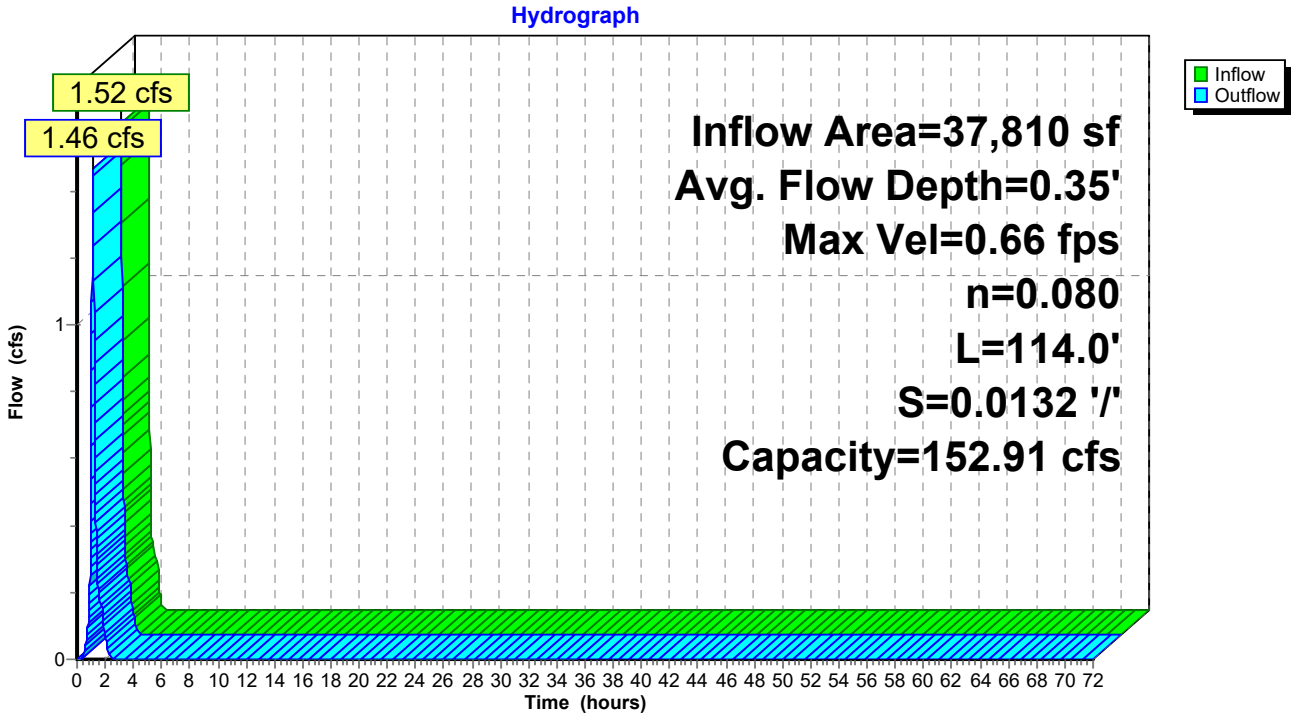
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.66 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 0.25 fps, Avg. Travel Time= 7.7 min

Peak Storage= 251 cf @ 1.10 hrs
Average Depth at Peak Storage= 0.35' , Surface Width= 12.59'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 152.91 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 114.0' Slope= 0.0132 '/'
Inlet Invert= 159.50', Outlet Invert= 158.00'



‡



Summary for Reach 43R: DA4 Roadside swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 0.68" for NJDEP_WQDS event
Inflow = 2.05 cfs @ 1.32 hrs, Volume= 3,962 cf
Outflow = 2.02 cfs @ 1.35 hrs, Volume= 3,962 cf, Atten= 1%, Lag= 1.7 min
Routed to Reach 44R : DA4 Culvert

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.79 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 0.46 fps, Avg. Travel Time= 3.8 min

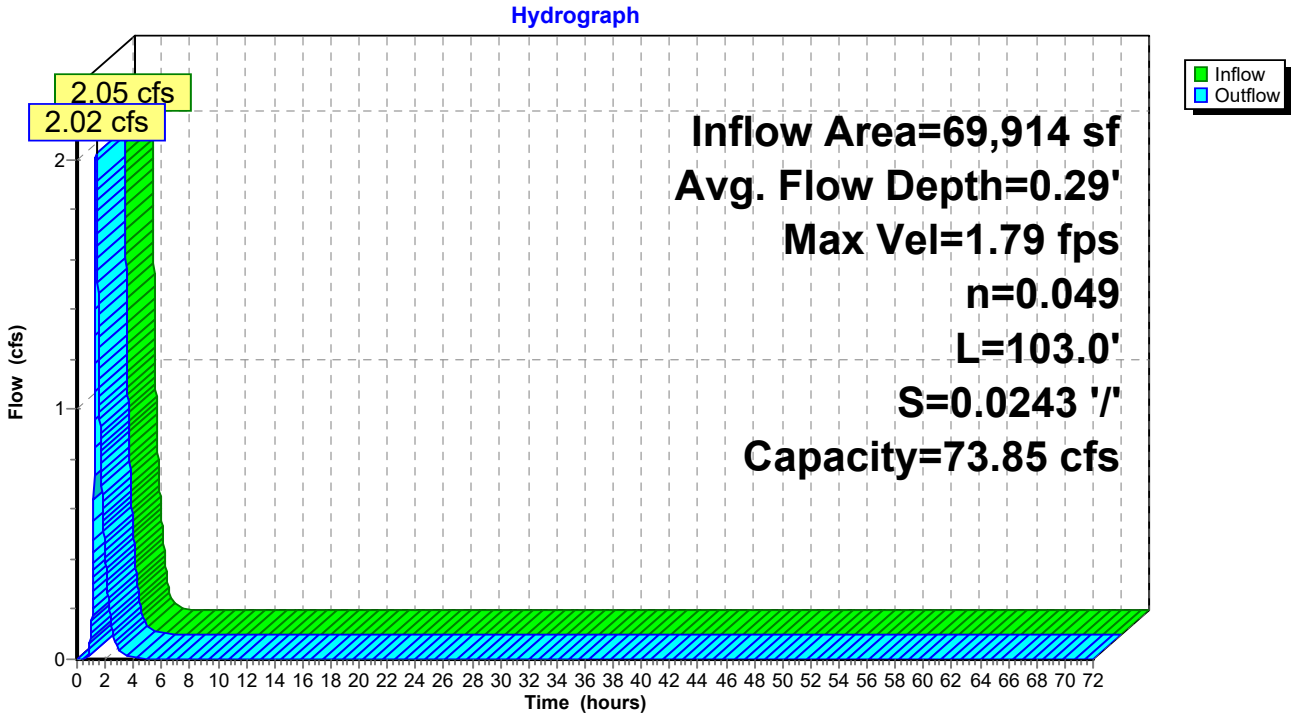
Peak Storage= 116 cf @ 1.34 hrs
Average Depth at Peak Storage= 0.29' , Surface Width= 4.75'
Bank-Full Depth= 1.80' Flow Area= 15.1 sf, Capacity= 73.85 cfs

3.00' x 1.80' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 13.80'
Length= 103.0' Slope= 0.0243 '/'
Inlet Invert= 160.20', Outlet Invert= 157.70'



‡

Reach 43R: DA4 Roadside swale



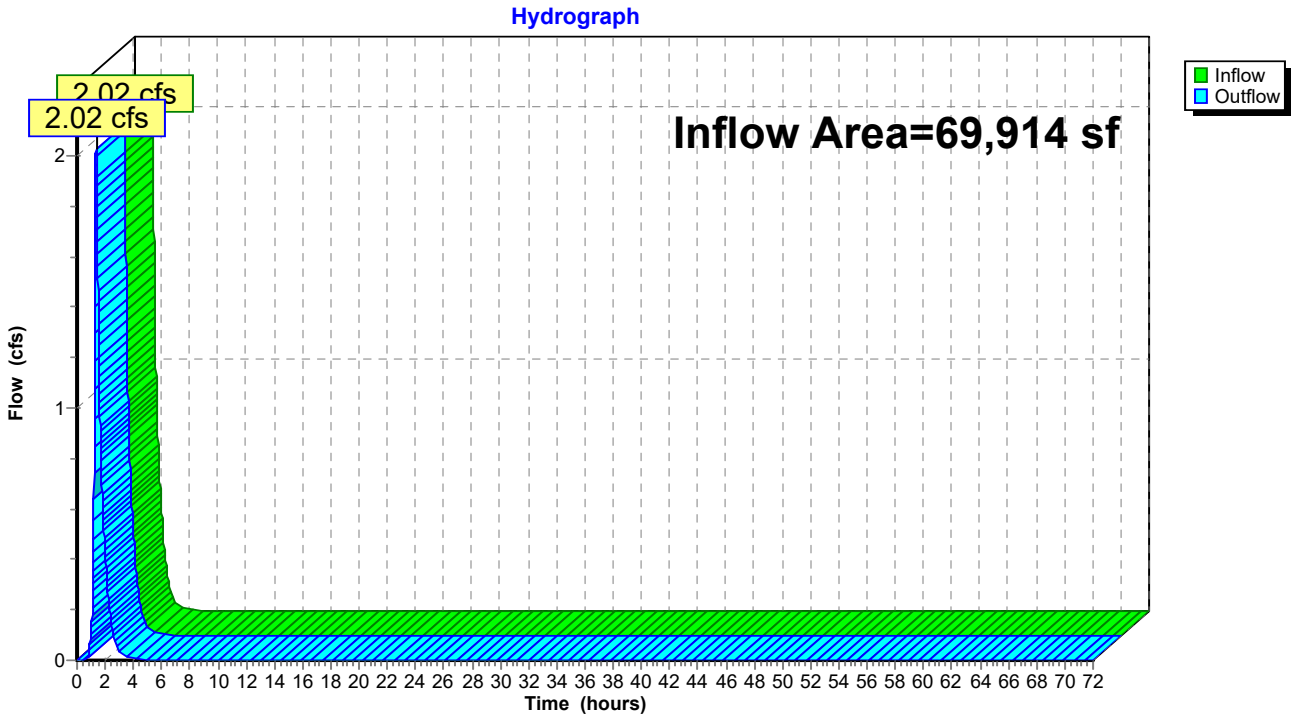
Summary for Reach 44R: DA4 Culvert

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 0.68" for NJDEP_WQDS event
Inflow = 2.02 cfs @ 1.35 hrs, Volume= 3,962 cf
Outflow = 2.02 cfs @ 1.35 hrs, Volume= 3,962 cf, Atten= 0%, Lag= 0.0 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach 44R: DA4 Culvert

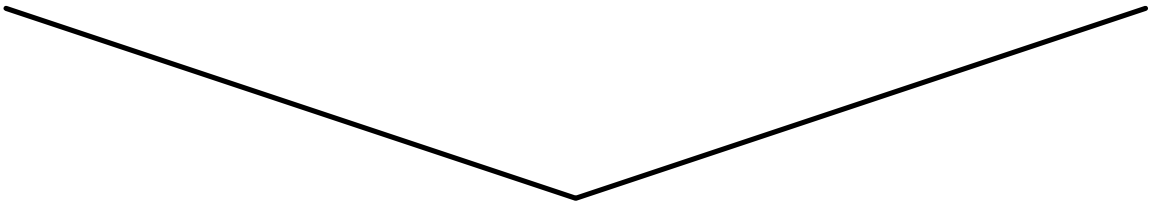


Summary for Reach 45R: DA2B Road Swale

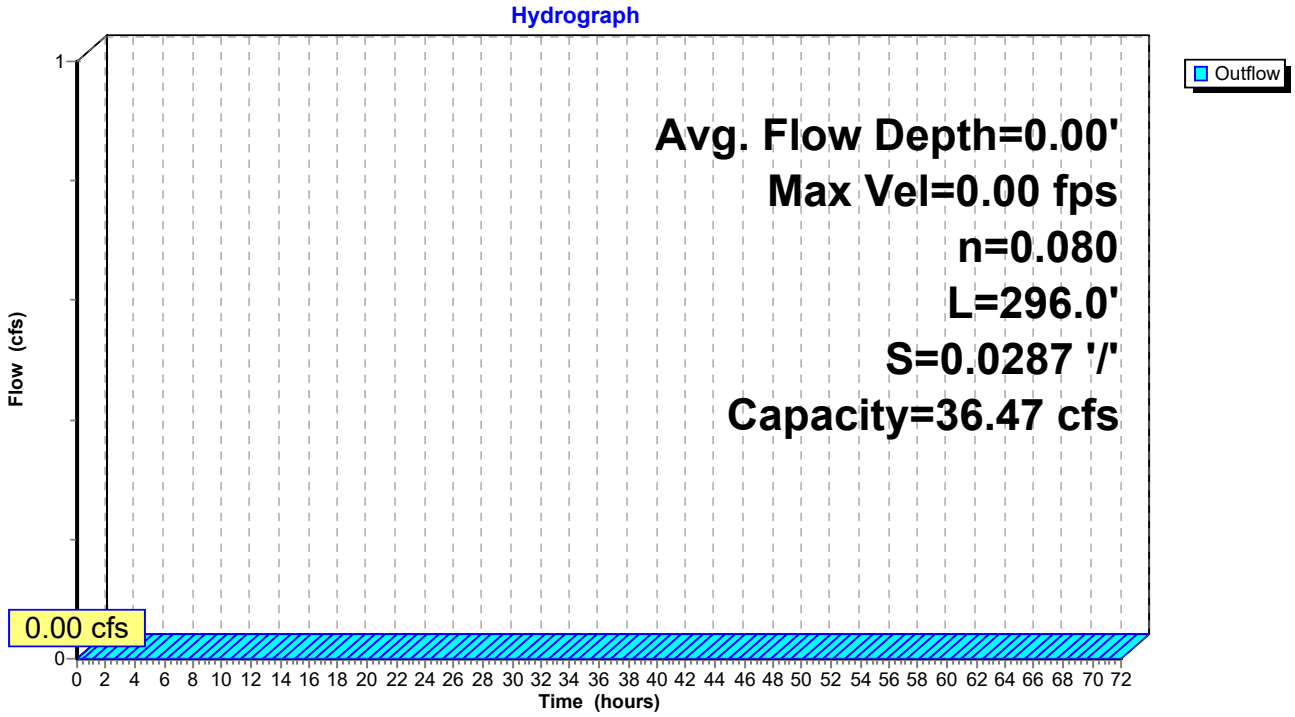
[43] Hint: Has no inflow (Outflow=Zero)

Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 36.47 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 296.0' Slope= 0.0287 '/'
Inlet Invert= 171.00', Outlet Invert= 162.50'



Reach 45R: DA2B Road Swale



Summary for Pond 15P: Basin 1A Forebay

Inflow Area = 510,150 sf, 6.82% Impervious, Inflow Depth = 0.07" for NJDEP_WQDS event
Inflow = 0.51 cfs @ 2.16 hrs, Volume= 2,999 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 48P : Basin 1A Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.66' @ 72.00 hrs Surf.Area= 1,659 sf Storage= 2,999 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

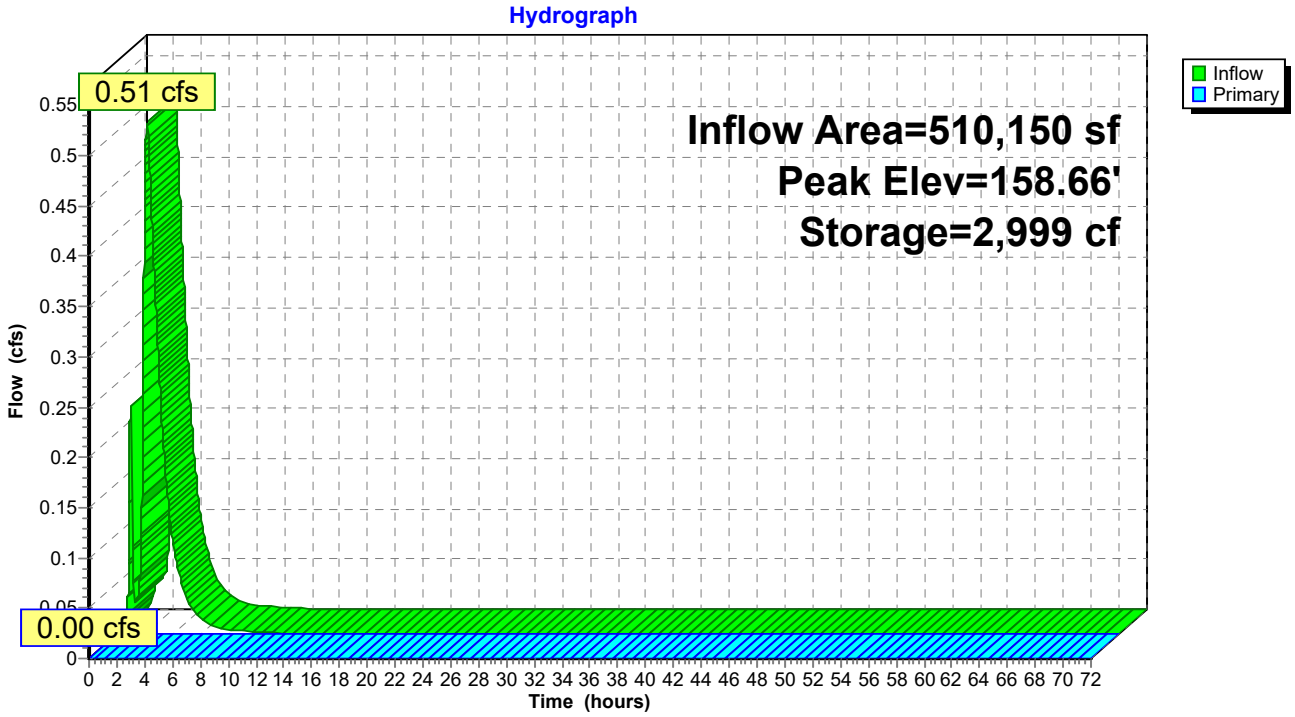
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	3,964 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	662	0	0
156.20	723	138	138
156.70	885	402	540
157.20	1,062	487	1,027
157.70	1,253	579	1,606
158.20	1,458	678	2,284
158.70	1,677	784	3,067
159.20	1,910	897	3,964

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.80'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Primary	159.00'	**25.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**2=Culvert** (Controls 0.00 cfs)
└**1=Orifice/Grate** (Controls 0.00 cfs)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 15P: Basin 1A Forebay



Summary for Pond 18P: Basin 1B Forebay

Inflow Area = 114,201 sf, 89.03% Impervious, Inflow Depth = 0.92" for NJDEP_WQDS event
Inflow = 4.67 cfs @ 1.30 hrs, Volume= 8,765 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 43P : Basin 1B Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.24' @ 46.68 hrs Surf.Area= 4,705 sf Storage= 8,765 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	155.98'	18,291 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

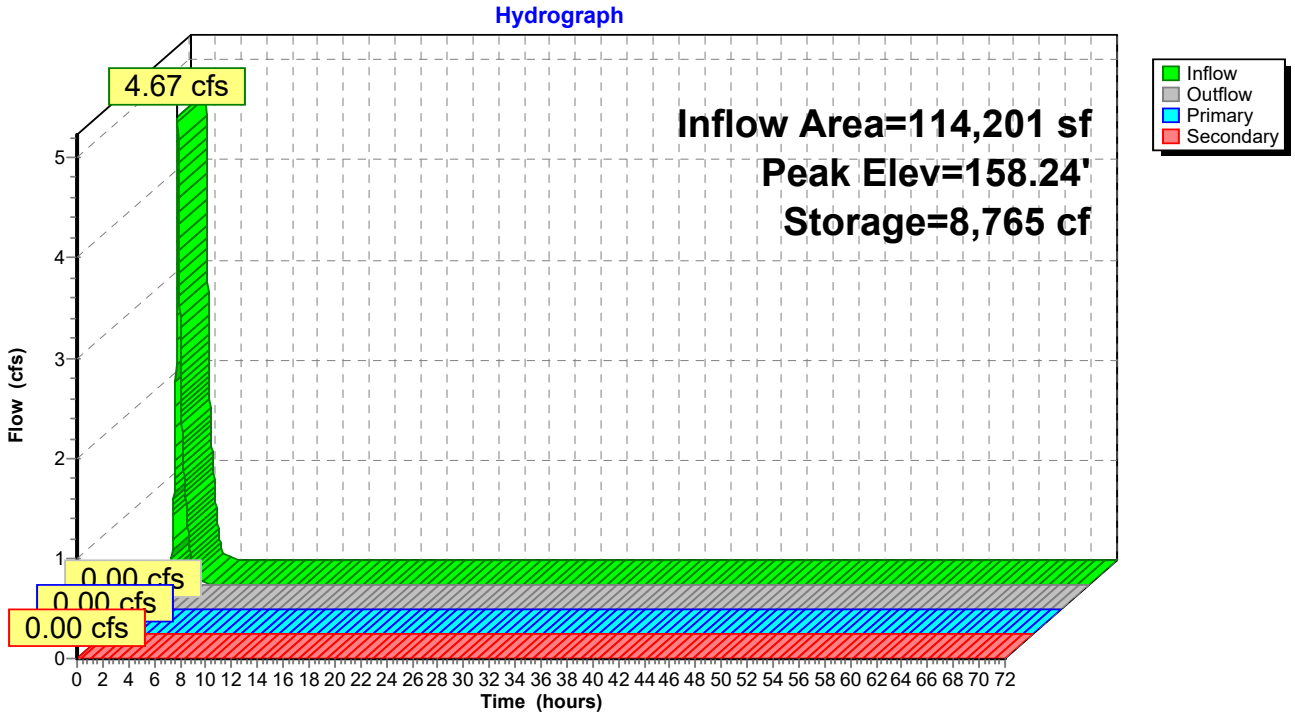
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.98	3,096	0	0
156.00	3,108	62	62
156.50	3,440	1,637	1,699
157.00	3,785	1,806	3,505
157.50	4,145	1,983	5,488
158.00	4,518	2,166	7,654
158.50	4,906	2,356	10,010
159.00	5,308	2,554	12,563
159.50	5,724	2,758	15,321
160.00	6,154	2,970	18,291

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	159.50'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
└**2=Culvert** (Controls 0.00 cfs)
└**1=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 18P: Basin 1B Forebay



Summary for Pond 26P: Basin 2A Forebay

Inflow Area = 114,388 sf, 72.58% Impervious, Inflow Depth = 0.75" for NJDEP_WQDS event
Inflow = 2.86 cfs @ 1.16 hrs, Volume= 7,158 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 44P : Basin 2A Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.68' @ 56.65 hrs Surf.Area= 4,898 sf Storage= 7,158 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	11,435 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

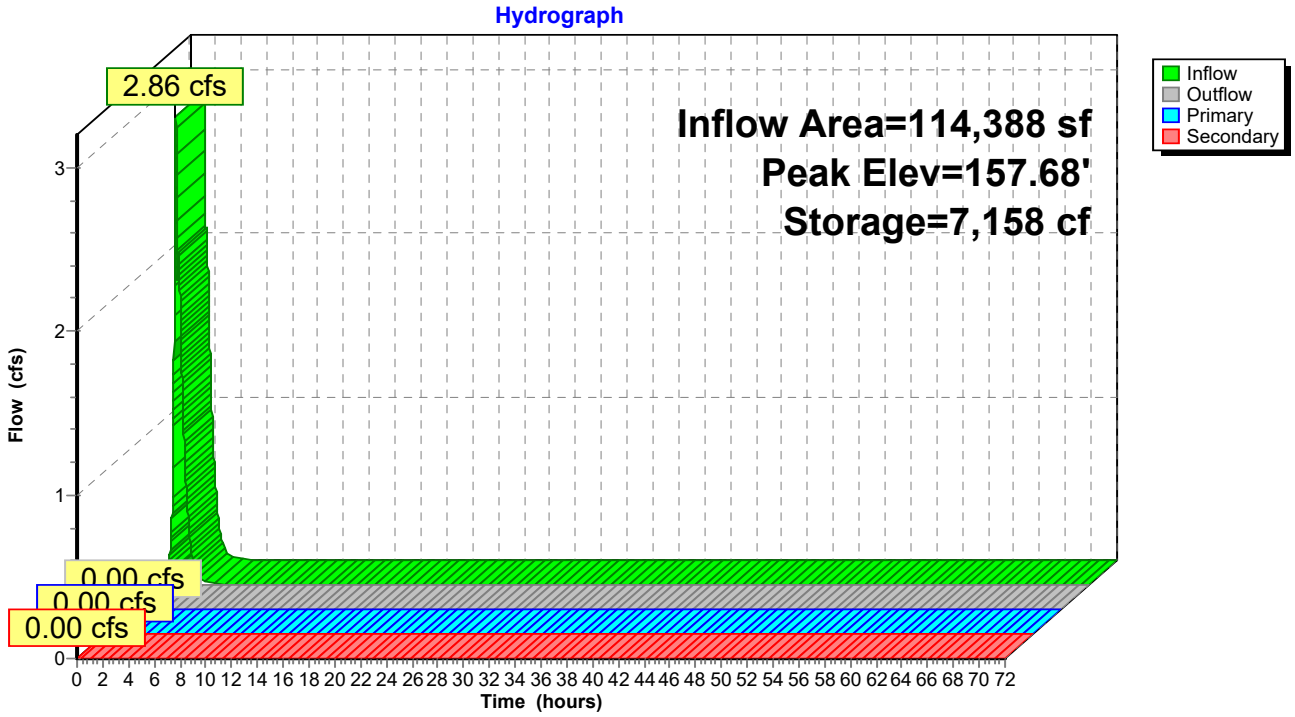
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	3,639	0	0
156.50	3,996	1,909	1,909
157.00	4,367	2,091	4,000
157.50	4,753	2,280	6,280
158.00	5,152	2,476	8,756
158.50	5,566	2,680	11,435

Device	Routing	Invert	Outlet Devices
#1	Secondary	158.30'	**20.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32
#2	Device 3	157.70'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Primary	156.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.00' S= 0.0417 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**3=Culvert** (Controls 0.00 cfs)
└**2=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 26P: Basin 2A Forebay



Summary for Pond 38P: Basin 3 Forebay

Inflow Area = 106,766 sf, 0.94% Impervious, Inflow Depth = 0.05" for NJDEP_WQDS event
Inflow = 0.11 cfs @ 1.70 hrs, Volume= 403 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 60P : Basin 3 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 144.13' @ 15.98 hrs Surf.Area= 3,202 sf Storage= 403 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	18,417 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

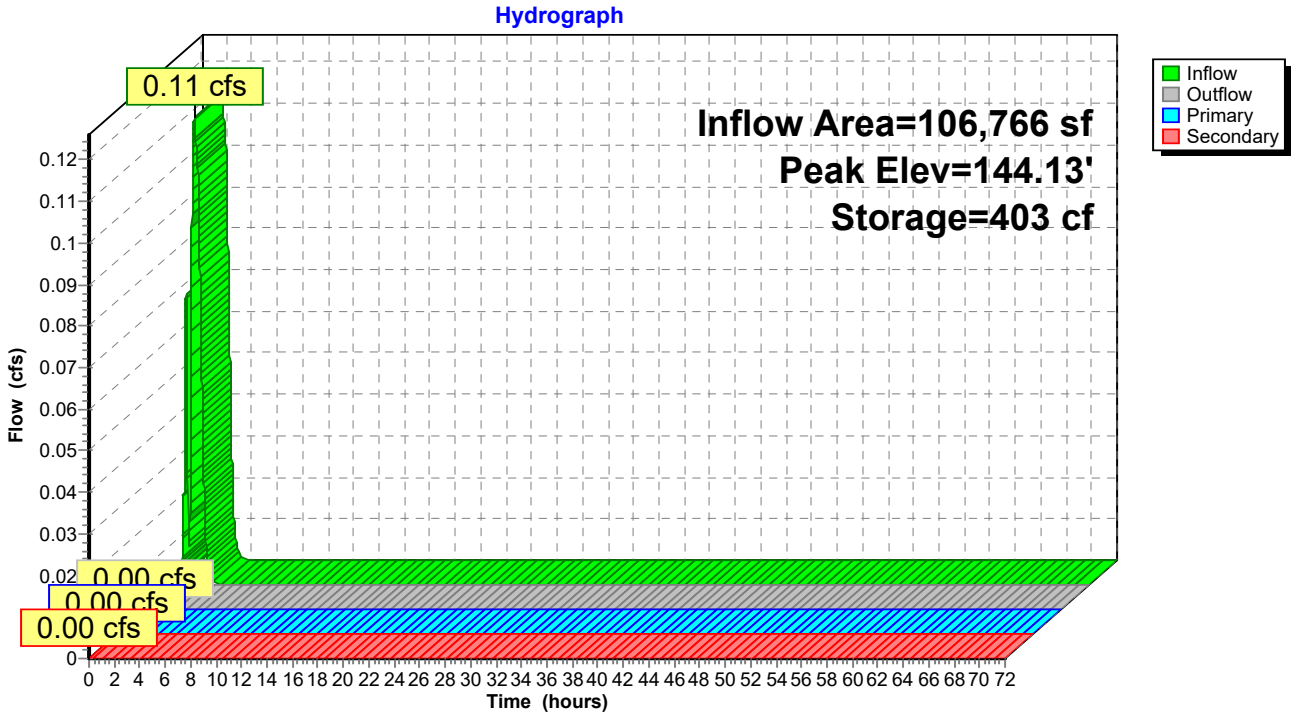
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.00	3,115	0	0
144.50	3,456	1,643	1,643
145.00	3,812	1,817	3,460
145.50	4,182	1,999	5,458
146.00	4,565	2,187	7,645
146.50	4,963	2,382	10,027
147.00	5,375	2,585	12,612
147.50	5,802	2,794	15,406
148.00	6,242	3,011	18,417

Device	Routing	Invert	Outlet Devices
#1	Device 2	145.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	144.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 144.00' / 143.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
↑**2=Culvert** (Controls 0.00 cfs)
↑**1=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
↑**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 38P: Basin 3 Forebay



Summary for Pond 39P: Basin 4 Forebay

Inflow Area = 112,908 sf, 64.51% Impervious, Inflow Depth = 0.67" for NJDEP_WQDS event
Inflow = 2.46 cfs @ 1.34 hrs, Volume= 6,279 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 51P : Basin 4 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.23' @ 49.26 hrs Surf.Area= 3,547 sf Storage= 6,279 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	155.00'	15,703 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

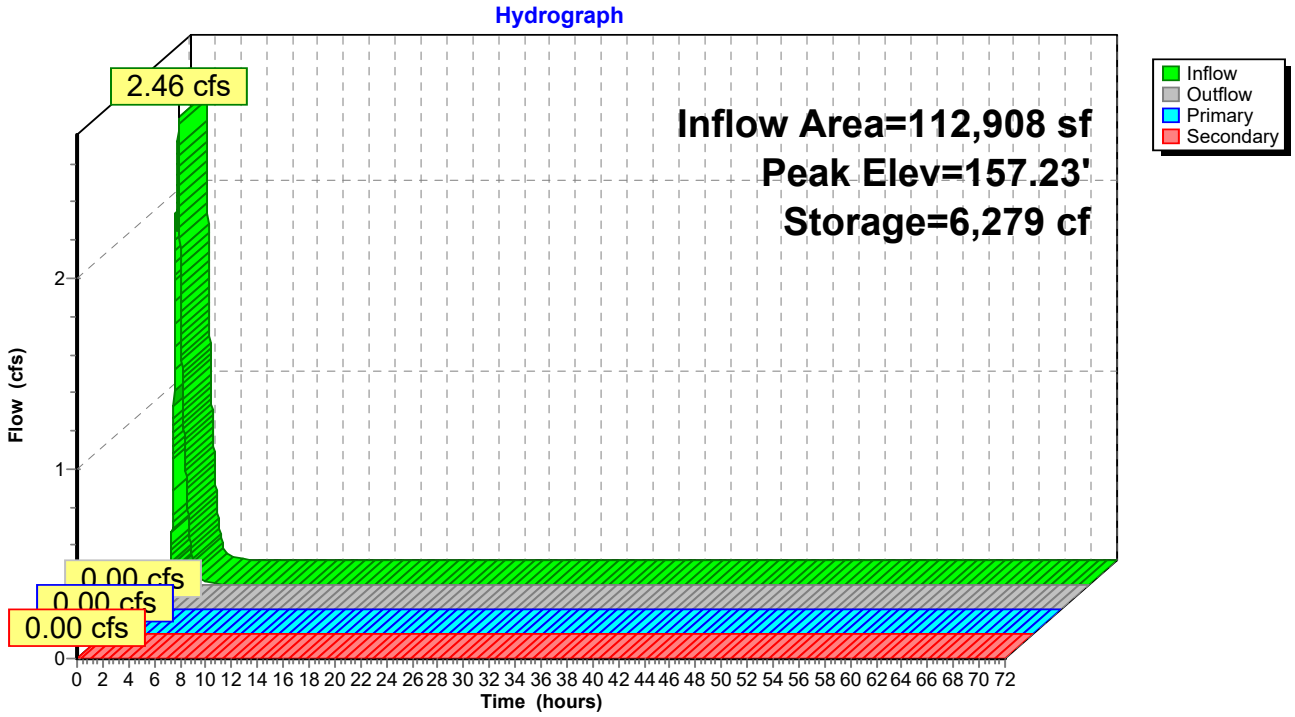
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.00	2,116	0	0
155.40	2,360	895	895
155.90	2,665	1,256	2,151
156.40	2,983	1,412	3,563
156.90	3,316	1,575	5,138
157.40	3,663	1,745	6,883
157.50	3,734	370	7,253
157.90	4,024	1,552	8,804
158.40	4,400	2,106	10,910
158.90	4,789	2,297	13,208
159.40	5,192	2,495	15,703

Device	Routing	Invert	Outlet Devices
#1	Primary	155.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 155.00' / 154.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	158.00'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	158.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└**1=Culvert** (Controls 0.00 cfs)
└**2=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 39P: Basin 4 Forebay



Summary for Pond 43P: Basin 1B Bioretention

Inflow Area = 126,097 sf, 87.23% Impervious, Inflow Depth = 0.07" for NJDEP_WQDS event
Inflow = 0.59 cfs @ 1.07 hrs, Volume= 717 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.15' @ 2.01 hrs Surf.Area= 4,330 sf Storage= 717 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

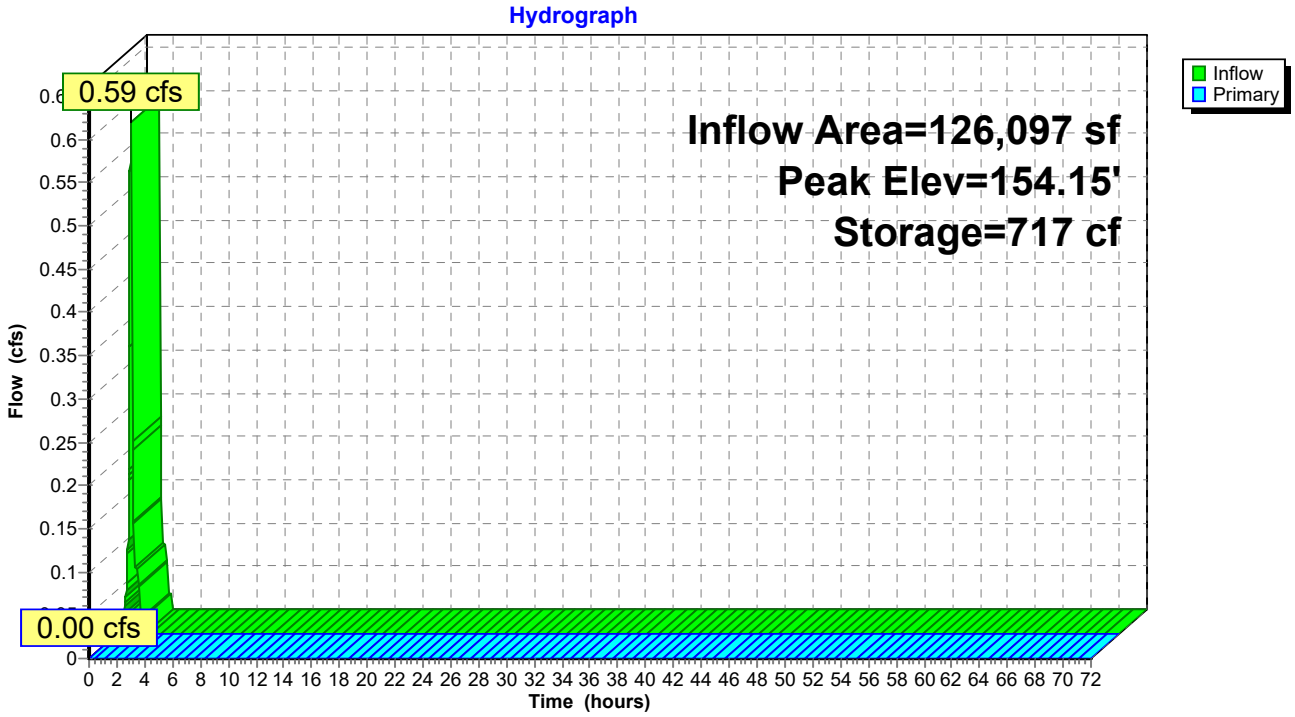
Volume	Invert	Avail.Storage	Storage Description
#1	153.98'	24,528 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.98	4,198	0	0
154.00	4,213	84	84
154.50	4,608	2,205	2,289
155.00	5,017	2,406	4,696
155.50	5,440	2,614	7,310
156.00	5,877	2,829	10,139
156.50	6,328	3,051	13,190
157.00	6,793	3,280	16,471
157.50	7,272	3,516	19,987
158.00	7,768	3,760	23,747
158.10	7,850	781	24,528

Device	Routing	Invert	Outlet Devices
#1	Device 2	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	154.00'	**24.0" Round Culvert** L= 32.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 152.00' S= 0.0625 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=153.98' (Free Discharge)
↑**2=Culvert** (Controls 0.00 cfs)
↑**1=Orifice/Grate** (Controls 0.00 cfs)

Pond 43P: Basin 1B Bioretention



Summary for Pond 44P: Basin 2A Bioretention

Inflow Area = 127,935 sf, 75.49% Impervious, Inflow Depth = 0.11" for NJDEP_WQDS event
Inflow = 0.96 cfs @ 1.07 hrs, Volume= 1,168 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.24' @ 2.01 hrs Surf.Area= 4,928 sf Storage= 1,168 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

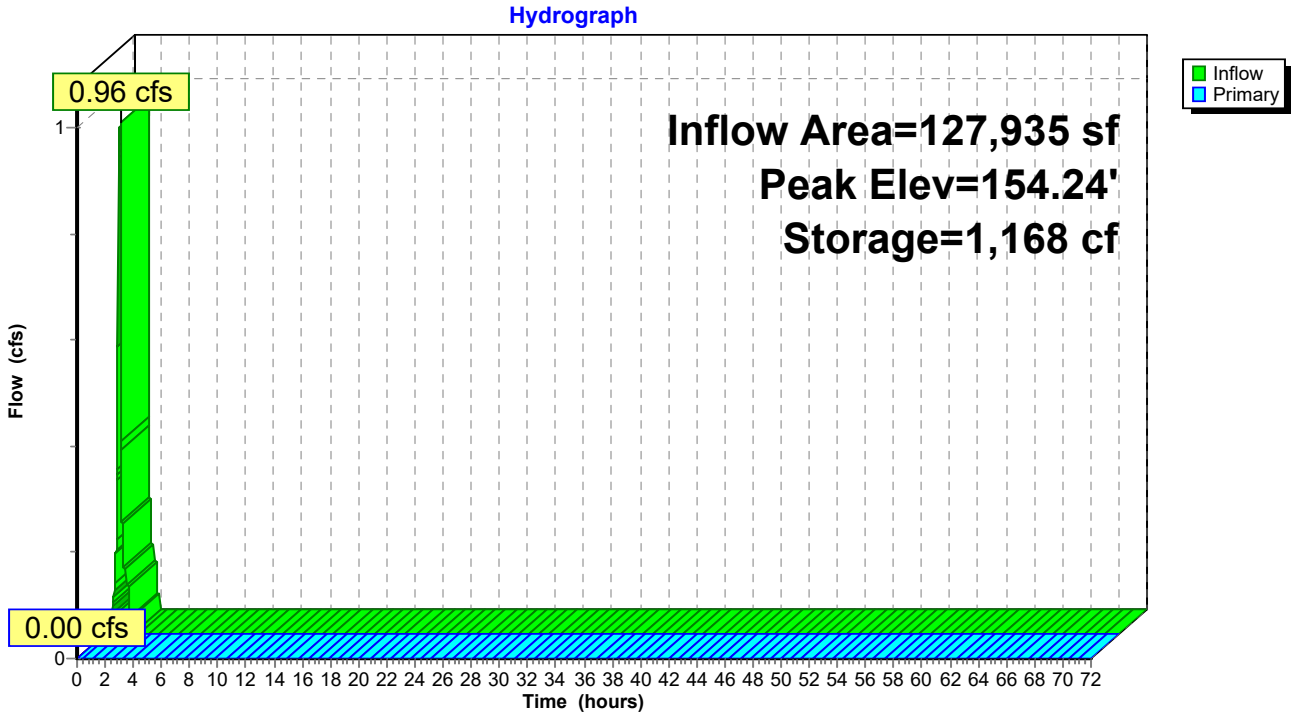
Volume	Invert	Avail.Storage	Storage Description
#1	154.00'	27,017 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
154.00	4,692	0	0
154.50	5,178	2,468	2,468
155.00	5,678	2,714	5,182
155.50	6,192	2,968	8,149
156.00	6,718	3,228	11,377
156.50	7,258	3,494	14,871
157.00	7,810	3,767	18,638
157.50	8,376	4,047	22,684
158.00	8,955	4,333	27,017

Device	Routing	Invert	Outlet Devices
#1	Primary	154.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 153.00' S= 0.0417 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=154.00' (Free Discharge)
↑**1=Culvert** (Controls 0.00 cfs)
↑**2=Orifice/Grate** (Controls 0.00 cfs)

Pond 44P: Basin 2A Bioretention



Summary for Pond 45P: Basin 2A Infiltration

Inflow Area = 177,071 sf, 82.29% Impervious, Inflow Depth = 0.29" for NJDEP_WQDS event
Inflow = 3.49 cfs @ 1.07 hrs, Volume= 4,236 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 150.77' @ 2.01 hrs Surf.Area= 17,926 sf Storage= 4,226 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

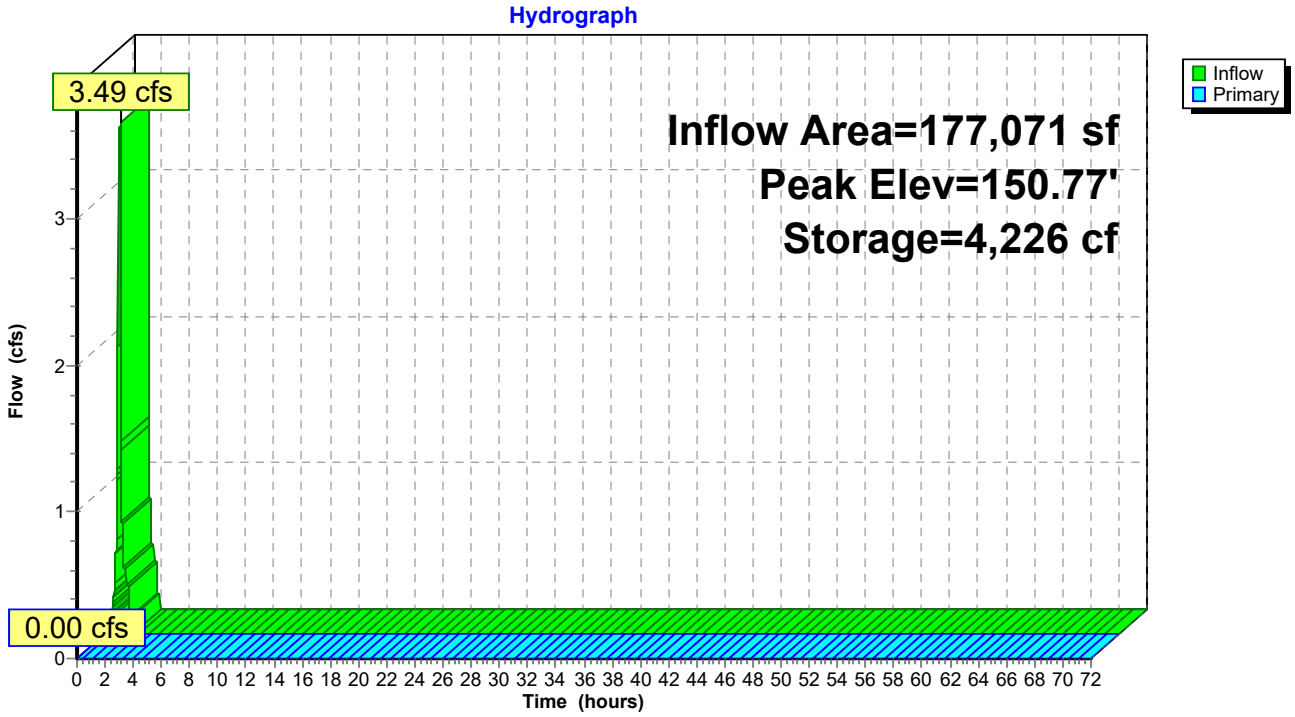
Volume	Invert	Avail.Storage	Storage Description
#1	150.50'	211,473 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.50	13,884	0	0
151.00	21,491	8,844	8,844
151.50	22,475	10,992	19,835
152.00	23,686	11,540	31,376
152.50	24,504	12,048	43,423
153.00	25,550	12,514	55,937
153.50	26,612	13,041	68,977
154.00	27,691	13,576	82,553
154.50	28,785	14,119	96,672
155.00	29,903	14,672	111,344
155.50	31,034	15,234	126,578
156.00	32,184	15,805	142,383
156.50	33,348	16,383	158,766
157.00	34,530	16,970	175,735
157.50	35,731	17,565	193,300
158.00	36,958	18,172	211,473

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.50' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 45P: Basin 2A Infiltration



Summary for Pond 46P: Basin 1B Infiltration

Inflow Area = 156,153 sf, 89.68% Impervious, Inflow Depth = 0.20" for NJDEP_WQDS event
Inflow = 2.14 cfs @ 1.07 hrs, Volume= 2,591 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 148.14' @ 2.01 hrs Surf.Area= 15,912 sf Storage= 2,591 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

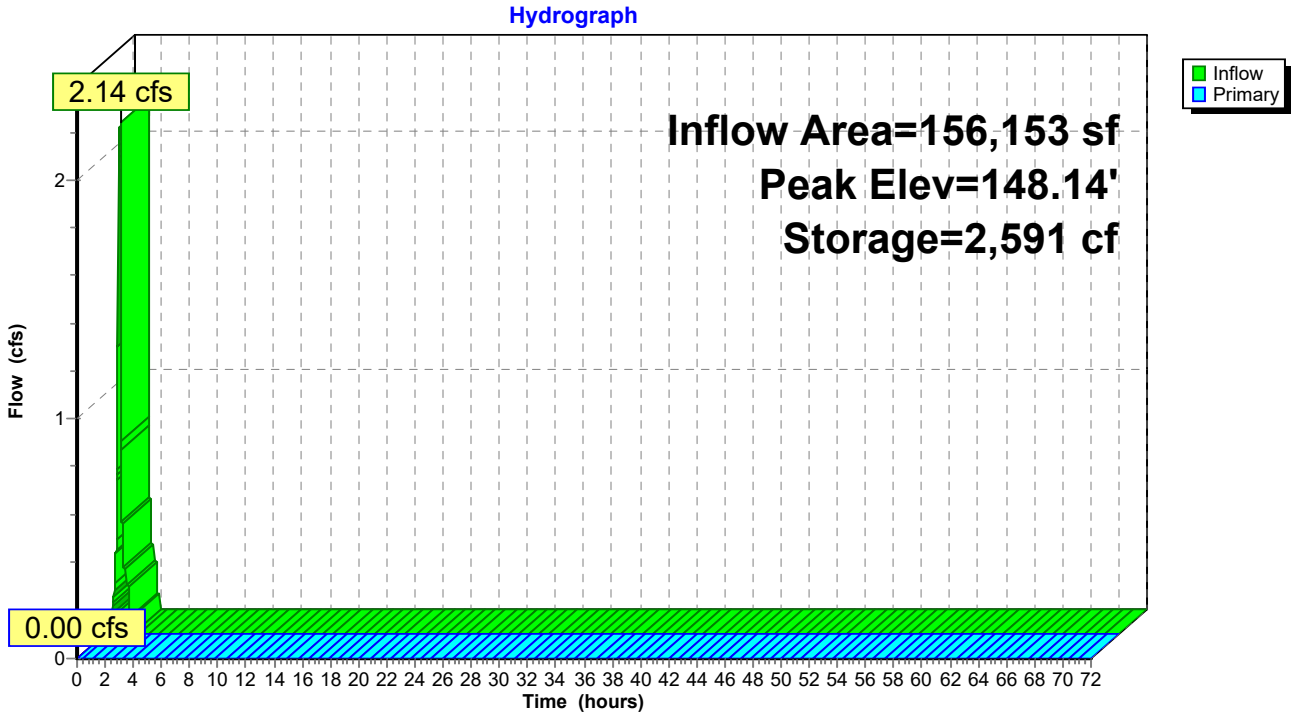
Volume	Invert	Avail.Storage	Storage Description
#1	147.98'	135,038 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.98	15,656	0	0
148.40	16,310	6,713	6,713
148.90	17,103	8,353	15,066
149.40	17,911	8,754	23,820
149.90	18,735	9,162	32,981
150.40	19,574	9,577	42,558
150.90	20,428	10,001	52,559
151.40	21,297	10,431	62,990
151.90	22,181	10,870	73,860
152.40	23,080	11,315	85,175
152.90	23,993	11,768	96,943
153.40	24,920	12,228	109,171
153.90	25,863	12,696	121,867
154.40	26,819	13,171	135,038

Device	Routing	Invert	Outlet Devices
#1	Primary	153.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.98' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 46P: Basin 1B Infiltration



Summary for Pond 48P: Basin 1A Infiltration Basin

Inflow Area = 562,771 sf, 15.53% Impervious, Inflow Depth = 0.10" for NJDEP_WQDS event
Inflow = 3.74 cfs @ 1.07 hrs, Volume= 4,537 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 150.21' @ 2.01 hrs Surf.Area= 22,249 sf Storage= 4,536 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

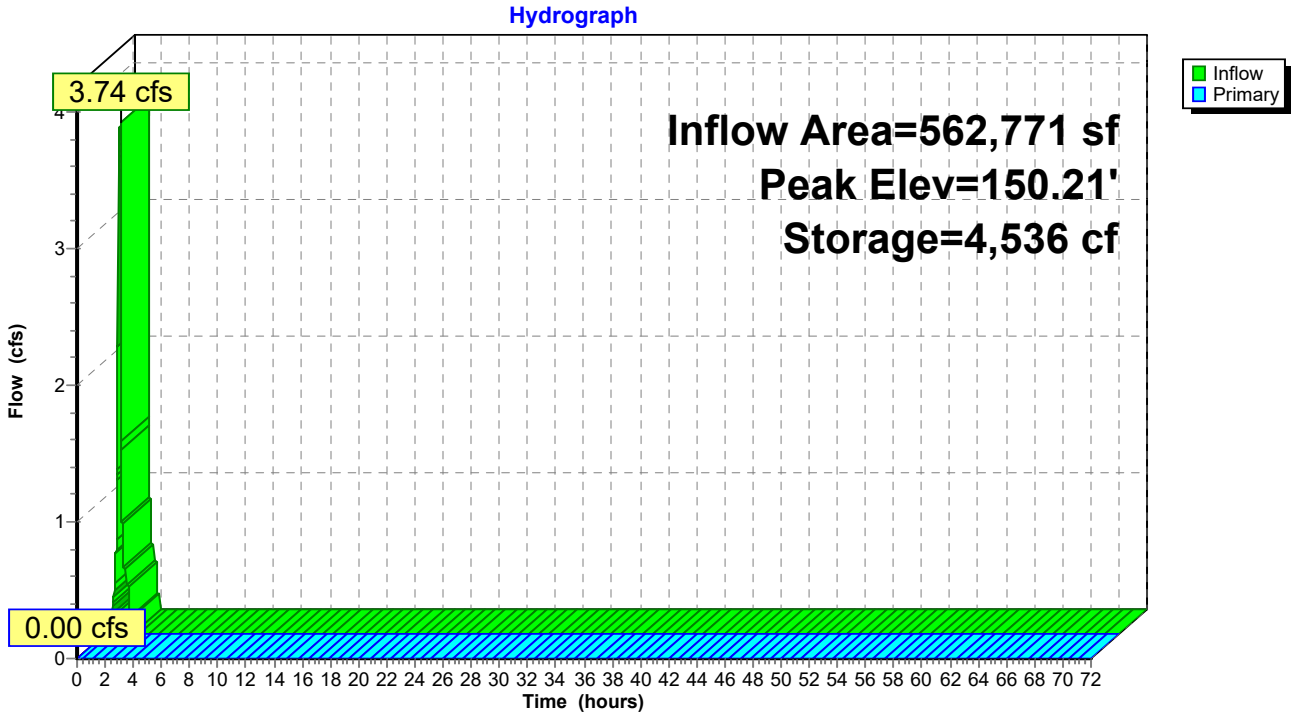
Volume	Invert	Avail.Storage	Storage Description
#1	150.00'	298,930 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.00	21,799	0	0
150.20	22,236	4,403	4,403
150.70	23,295	11,383	15,786
151.20	24,380	11,919	27,705
151.70	25,491	12,468	40,173
152.20	26,624	13,029	53,201
152.70	27,774	13,600	66,801
153.20	28,940	14,179	80,979
153.70	30,120	14,765	95,744
154.20	31,316	15,359	111,103
154.70	32,526	15,961	127,064
155.20	33,749	16,569	143,633
155.70	34,987	17,184	160,817
156.20	36,240	17,807	178,623
156.70	37,506	18,437	197,060
157.20	38,786	19,073	216,133
157.70	40,081	19,717	235,850
158.20	41,390	20,368	256,217
158.70	42,718	21,027	277,244
159.20	44,026	21,686	298,930

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**30.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' (Free Discharge)
↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 48P: Basin 1A Infiltration Basin



Summary for Pond 51P: Basin 4 Bioretention

Inflow Area = 148,627 sf, 52.11% Impervious, Inflow Depth = 0.03" for NJDEP_WQDS event
Inflow = 0.33 cfs @ 1.07 hrs, Volume= 398 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 153.13' @ 2.01 hrs Surf.Area= 2,977 sf Storage= 398 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

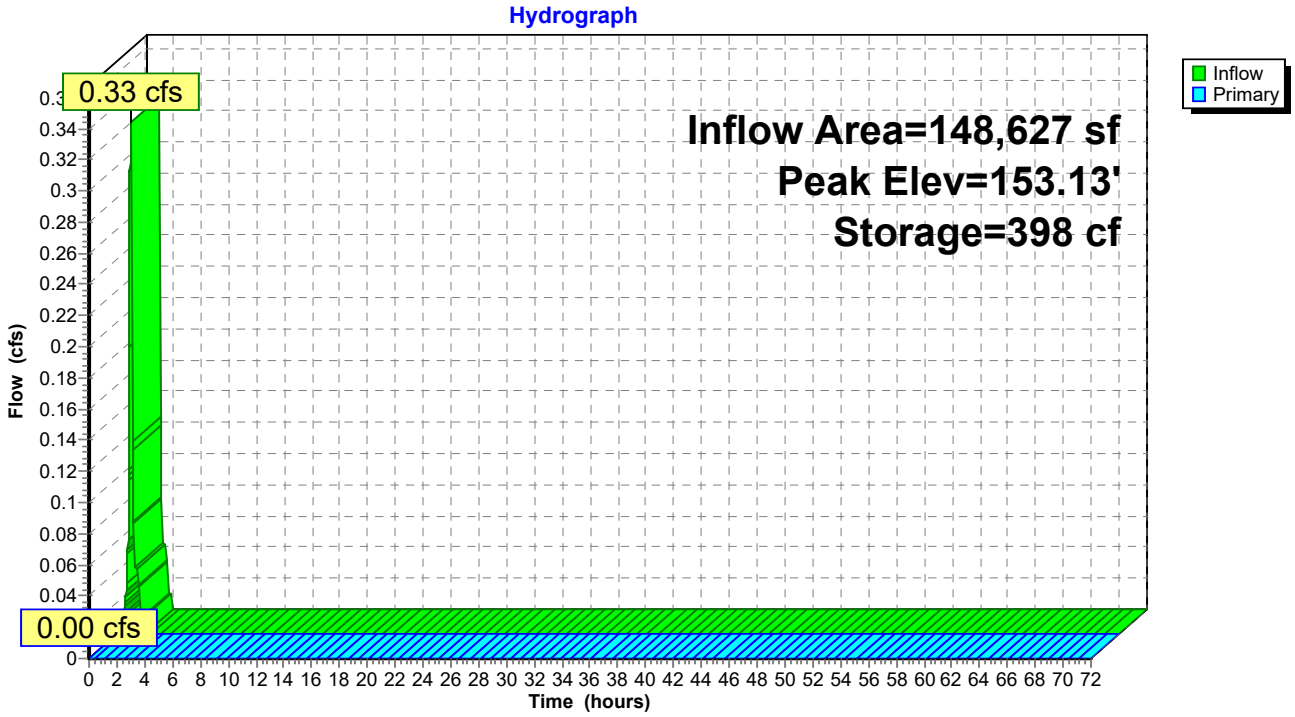
Volume	Invert	Avail.Storage	Storage Description
#1	153.00'	36,070 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.00	2,922	0	0
153.90	3,287	2,794	2,794
154.40	3,735	1,756	4,550
154.90	4,199	1,984	6,533
155.40	4,678	2,219	8,752
155.90	5,172	2,463	11,215
156.40	5,682	2,714	13,928
156.50	6,207	594	14,523
156.90	6,314	2,504	17,027
157.40	6,748	3,266	20,292
157.90	7,305	3,513	23,806
158.40	7,877	3,796	27,601
158.90	8,465	4,086	31,687
159.40	9,068	4,383	36,070

Device	Routing	Invert	Outlet Devices
#1	Device 2	156.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	153.00'	**24.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 153.00' / 152.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=153.00' (Free Discharge)
↑**2=Culvert** (Controls 0.00 cfs)
↑**1=Orifice/Grate** (Controls 0.00 cfs)

Pond 51P: Basin 4 Bioretention



Summary for Pond 52P: Basin 4 Infiltration

Inflow Area = 180,774 sf, 56.17% Impervious, Inflow Depth = 0.14" for NJDEP_WQDS event
Inflow = 1.71 cfs @ 1.07 hrs, Volume= 2,077 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 152.64' @ 2.01 hrs Surf.Area= 9,012 sf Storage= 2,076 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

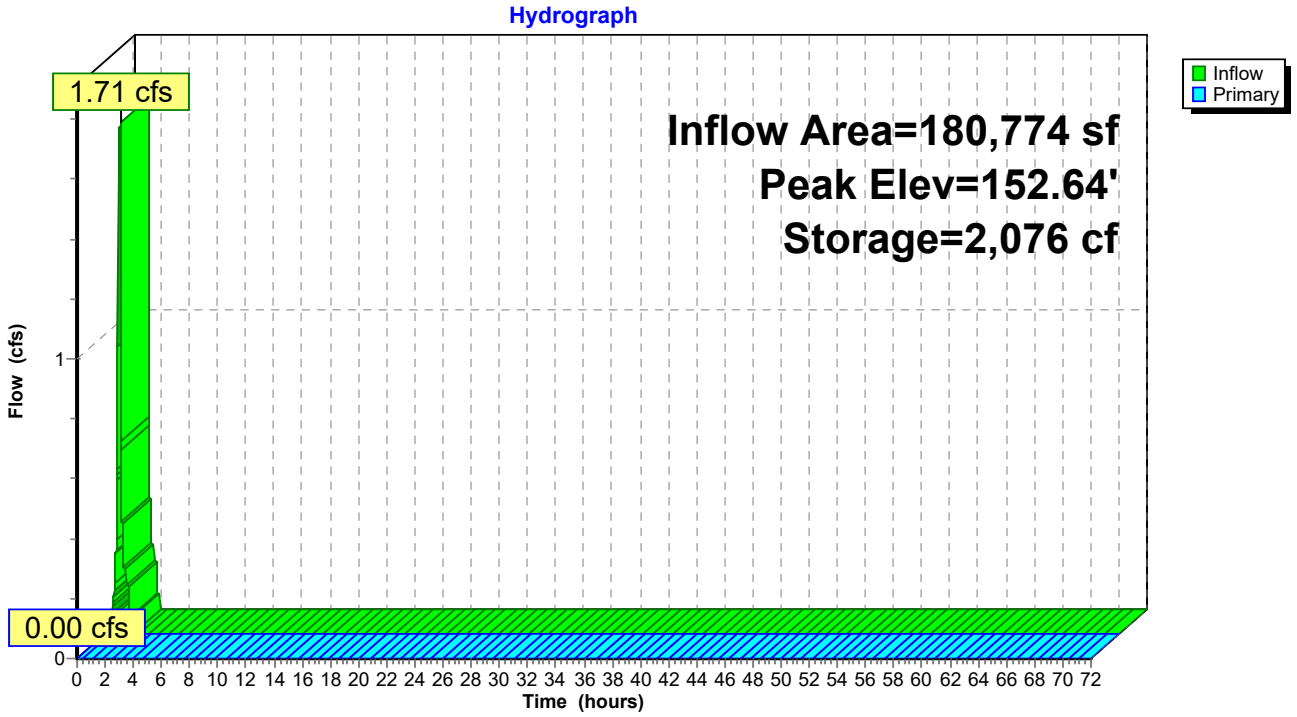
Volume	Invert	Avail.Storage	Storage Description
#1	152.40'	98,072 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
152.40	8,570	0	0
152.90	9,506	4,519	4,519
153.40	10,459	4,991	9,510
153.90	11,430	5,472	14,983
154.40	12,419	5,962	20,945
154.90	13,426	6,461	27,406
155.40	14,449	6,969	34,375
155.90	15,490	7,485	41,860
156.40	16,547	8,009	49,869
156.90	17,620	8,542	58,411
157.40	18,711	9,083	67,493
157.90	19,818	9,632	77,126
158.40	20,943	10,190	87,316
158.90	22,081	10,756	98,072

Device	Routing	Invert	Outlet Devices
#1	Primary	158.80'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.40' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 52P: Basin 4 Infiltration



Summary for Pond 60P: Basin 3 Bioretention

Inflow Area = 110,642 sf, 4.41% Impervious, Inflow Depth = 0.04" for NJDEP_WQDS event
Inflow = 0.28 cfs @ 1.07 hrs, Volume= 334 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 143.10' @ 2.01 hrs Surf.Area= 3,547 sf Storage= 334 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

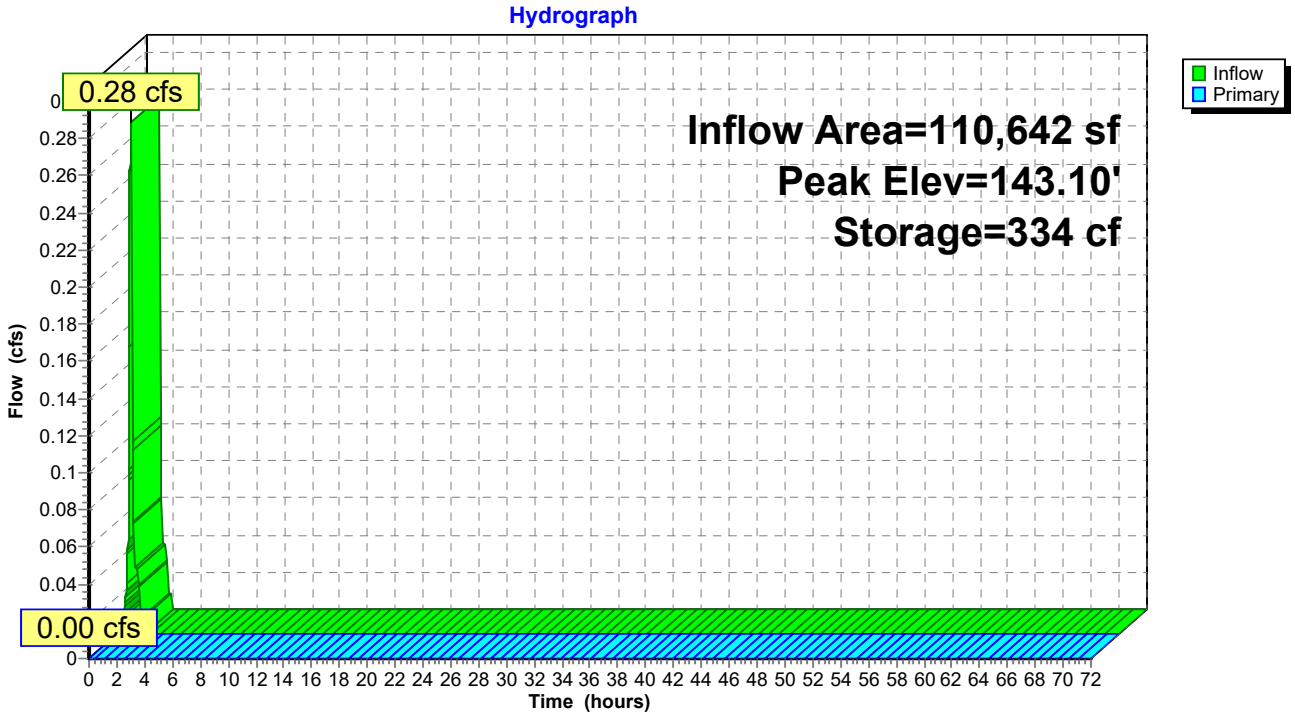
Volume	Invert	Avail.Storage	Storage Description
#1	143.00'	27,552 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.00	3,477	0	0
143.50	3,844	1,830	1,830
144.00	4,224	2,017	3,847
144.50	4,619	2,211	6,058
145.00	5,028	2,412	8,470
145.50	5,450	2,620	11,089
146.00	5,887	2,834	13,924
146.50	6,339	3,057	16,980
147.00	6,804	3,286	20,266
147.50	7,283	3,522	23,788
148.00	7,776	3,765	27,552

Device	Routing	Invert	Outlet Devices
#1	Primary	146.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Device 1	143.00'	**18.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 143.00' / 142.00' S= 0.0227 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.00' (Free Discharge)
└**1=Orifice/Grate** (Controls 0.00 cfs)
└**2=Culvert** (Controls 0.00 cfs)

Pond 60P: Basin 3 Bioretention



Summary for Pond 61P: Basin 3 Infiltration

Inflow Area = 126,803 sf, 16.59% Impervious, Inflow Depth = 0.13" for NJDEP_WQDS event
Inflow = 1.15 cfs @ 1.07 hrs, Volume= 1,393 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 142.13' @ 2.01 hrs Surf.Area= 10,850 sf Storage= 1,393 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

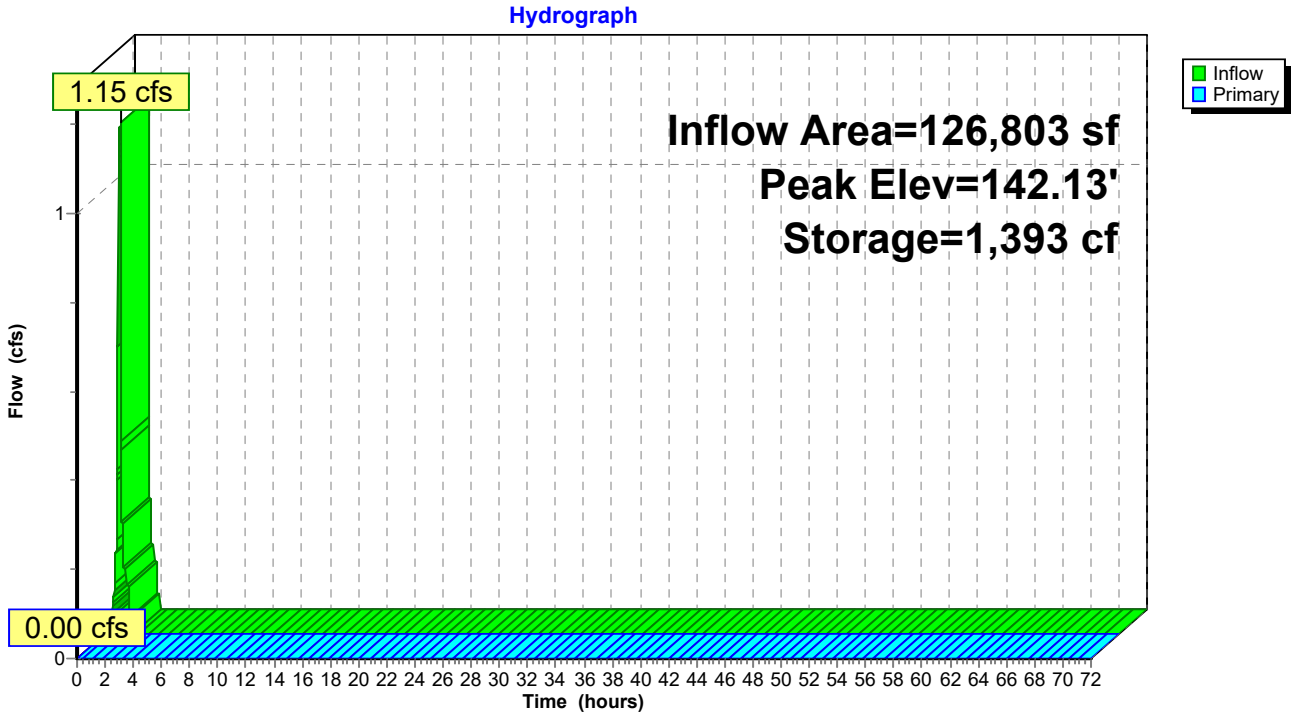
Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	66,946 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
142.00	10,684	0	0
142.30	11,069	3,263	3,263
142.80	11,719	5,697	8,960
143.30	12,382	6,025	14,985
143.80	13,060	6,361	21,346
144.30	13,752	6,703	28,049
144.80	14,458	7,053	35,101
145.30	15,177	7,409	42,510
145.80	15,912	7,772	50,282
146.30	16,660	8,143	58,425
146.80	17,422	8,521	66,946

Device	Routing	Invert	Outlet Devices
#1	Primary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 61P: Basin 3 Infiltration



Summary for Pond 65P: Basin 2B Forebay

Inflow Area = 383,157 sf, 7.33% Impervious, Inflow Depth = 0.08" for NJDEP_WQDS event
Inflow = 0.52 cfs @ 1.94 hrs, Volume= 2,420 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 66P : Basin 2B Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.73' @ 71.44 hrs Surf.Area= 1,897 sf Storage= 2,420 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

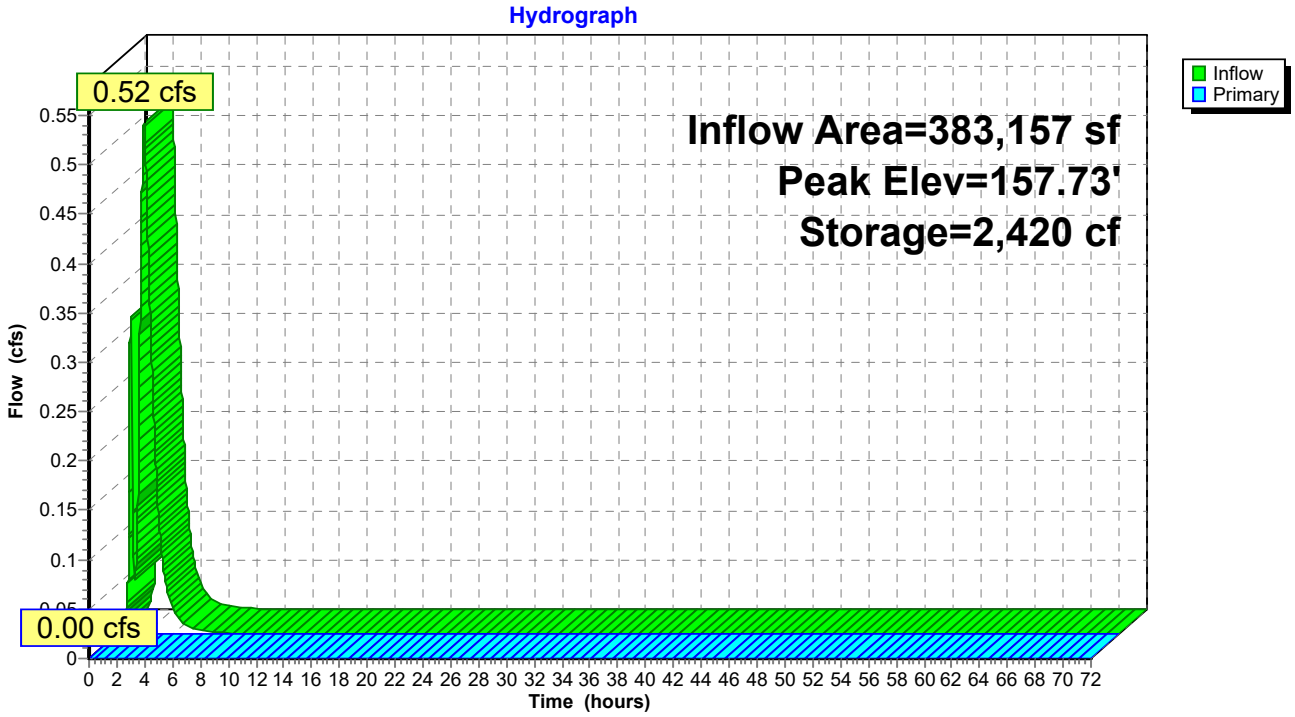
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	8,105 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	928	0	0
156.40	1,136	413	413
156.90	1,406	636	1,048
157.40	1,694	775	1,823
157.90	2,000	924	2,747
158.40	2,324	1,081	3,828
158.50	2,391	236	4,064
158.90	2,666	1,011	5,075
159.40	3,026	1,423	6,498
159.90	3,404	1,608	8,105

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf
#3	Primary	159.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
- **2=Culvert** (Controls 0.00 cfs)
  - **1=Orifice/Grate** (Controls 0.00 cfs)
- **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 65P: Basin 2B Forebay



Summary for Pond 66P: Basin 2B Infiltration Basin

Inflow Area = 435,255 sf, 18.42% Impervious, Inflow Depth = 0.12" for NJDEP_WQDS event
Inflow = 3.70 cfs @ 1.07 hrs, Volume= 4,492 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 151.14' @ 2.01 hrs Surf.Area= 32,593 sf Storage= 4,491 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

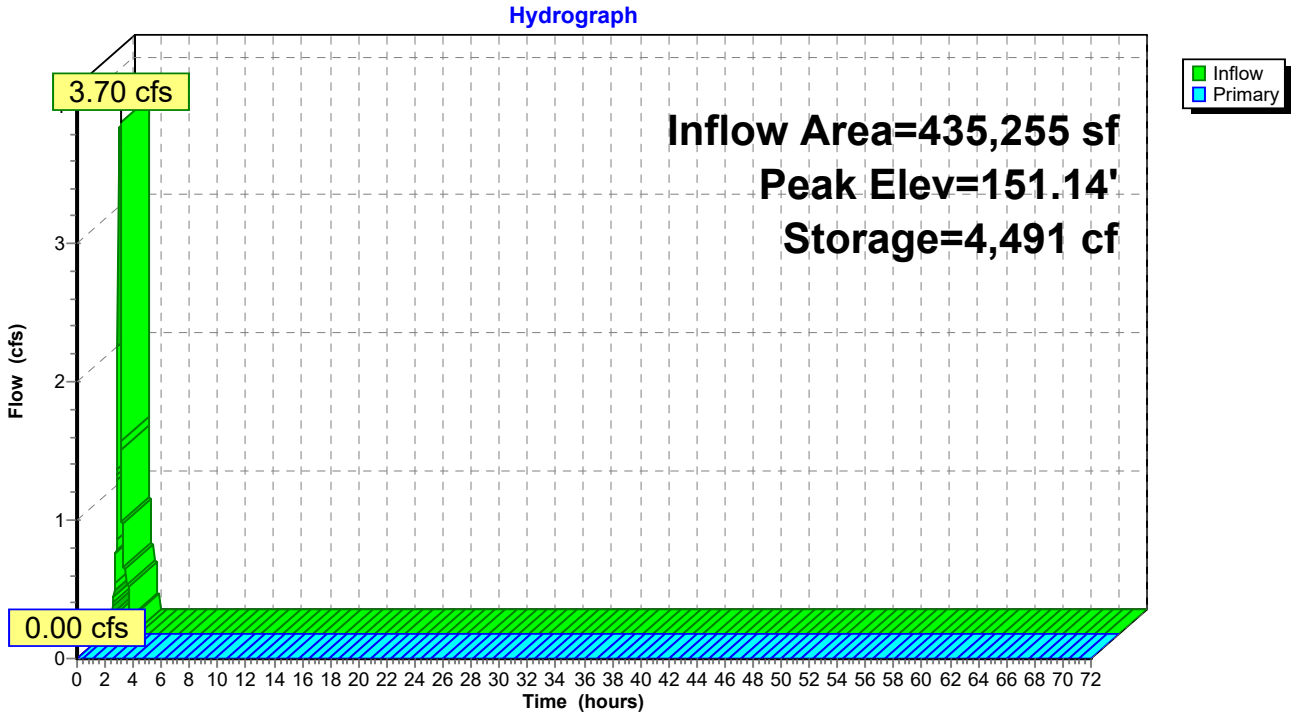
Volume	Invert	Avail.Storage	Storage Description
#1	151.00'	213,861 cf	**Basin 2B Infiltration Basin (Prismatic)** Listed below (Recalc)

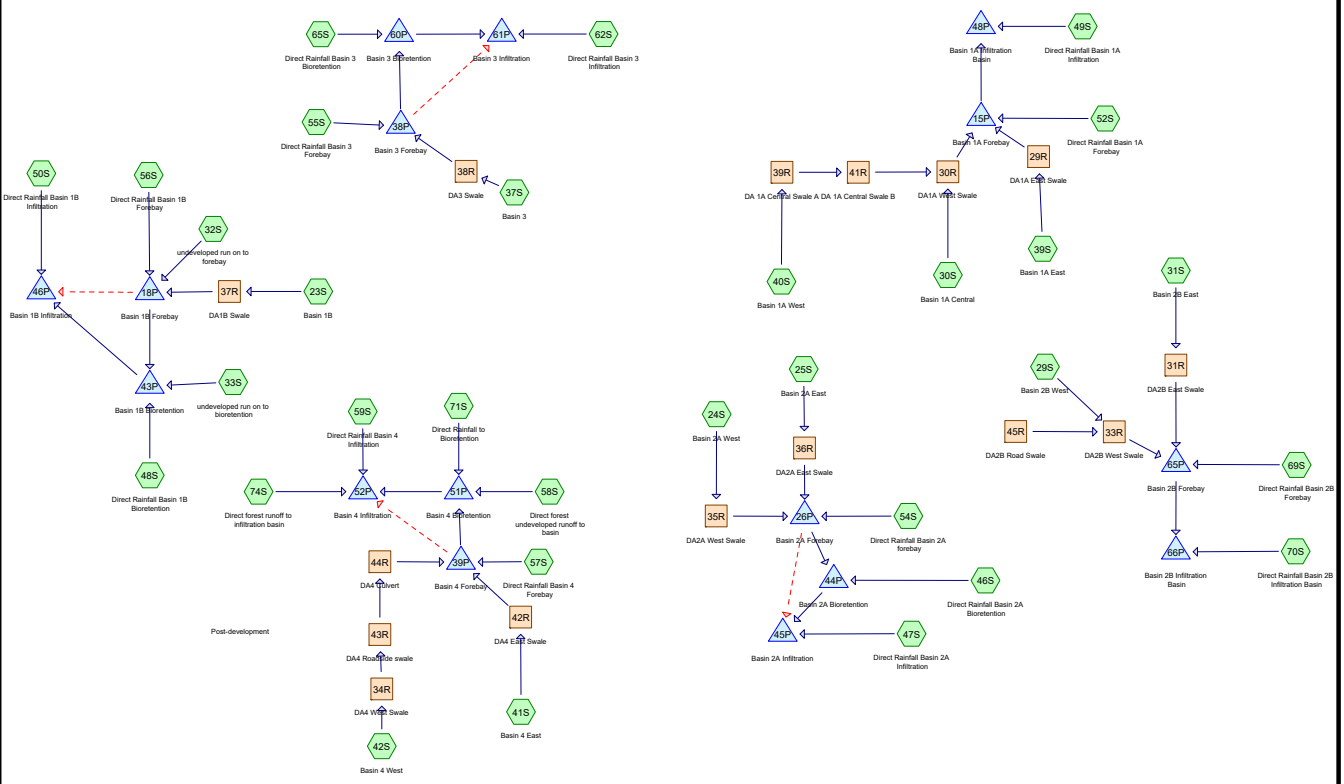
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
151.00	32,211	0	0
151.40	33,314	13,105	13,105
151.90	34,642	16,989	30,094
152.40	35,983	17,656	47,750
152.90	37,338	18,330	66,081
153.40	38,708	19,012	85,092
153.90	40,091	19,700	104,792
154.40	41,489	20,395	125,187
154.90	42,901	21,098	146,284
155.40	44,326	21,807	168,091
155.90	45,767	22,523	190,614
156.40	47,221	23,247	213,861

Device	Routing	Invert	Outlet Devices
#1	Primary	155.70'	**30.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=151.00' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 66P: Basin 2B Infiltration Basin





Subcat Reach Pond Link

Routing Diagram for Hydrologic_Model_postdev_projected
Prepared by SCCM, Printed 11/20/2024
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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-year_projected	NOAA 24-hr	D	Default	24.00	1	4.01	2
2	10-year_projected	NOAA 24-hr	D	Default	24.00	1	6.26	2
3	100-year_projected	NOAA 24-hr	D	Default	24.00	1	11.17	2
4	NJDEP_WQDS	NJ DEP 2-hr		Default	2.00	1	1.25	2

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
6,960	55	(32S, 33S)
72,658	98	(49S, 62S, 65S)
604,816	39	>75% Grass cover, Good, HSG A (23S, 29S, 31S, 39S, 40S)
62,683	98	Direct Rainfall (46S, 47S)
39,372	98	Solar (29S, 31S, 39S, 40S)
39,160	55	Woods, Good, HSG B (58S, 74S)
65,122	98	compost area (24S, 25S)
126,977	98	compost/recycling area (23S, 42S)
126,934	98	direct rainfall (50S, 52S, 55S, 56S, 57S, 59S, 69S, 70S)
8,320	98	direct rainfall onto bioretention (48S)
4,617	98	direct rainfall to bioretention (71S)
8,189	98	direct rainfall to forebay (54S)
266,152	39	grass (30S, 37S)
71,438	39	grass cover (24S, 25S, 41S, 42S)
23,697	98	gravel road (23S, 25S, 42S)
21,693	98	salt storage area (41S)
74,400	72	sand (37S)
15,638	98	solar (30S)
1,638,827	**62**	**TOTAL AREA**

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
604,816	HSG A	23S, 29S, 31S, 39S, 40S
39,160	HSG B	58S, 74S
0	HSG C	
0	HSG D	
994,851	Other	23S, 24S, 25S, 29S, 30S, 31S, 32S, 33S, 37S, 39S, 40S, 41S, 42S, 46S, 47S, 48S, 49S, 50S, 52S, 54S, 55S, 56S, 57S, 59S, 62S, 65S, 69S, 70S, 71S
1,638,827		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover
0	0	0	0	79,618	79,618	
604,816	0	0	0	0	604,816	>75% Grass cover, Good
0	0	0	0	62,683	62,683	Direct Rainfall
0	0	0	0	39,372	39,372	Solar
0	39,160	0	0	0	39,160	Woods, Good
0	0	0	0	65,122	65,122	compost area
0	0	0	0	126,977	126,977	compost/recycling area
0	0	0	0	126,934	126,934	direct rainfall
0	0	0	0	8,320	8,320	direct rainfall onto bioretention
0	0	0	0	4,617	4,617	direct rainfall to bioretention
0	0	0	0	8,189	8,189	direct rainfall to forebay
0	0	0	0	266,152	266,152	grass
0	0	0	0	71,438	71,438	grass cover
0	0	0	0	23,697	23,697	gravel road
0	0	0	0	21,693	21,693	salt storage area
0	0	0	0	74,400	74,400	sand
0	0	0	0	15,638	15,638	solar
604,816	**39,160**	**0**	**0**	**994,851**	**1,638,827**	**TOTAL AREA**

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	15P	156.00	155.50	25.0	0.0200	0.012	0.0	24.0	0.0
2	18P	156.00	155.50	30.0	0.0167	0.012	0.0	18.0	0.0
3	26P	156.00	155.00	24.0	0.0417	0.012	0.0	18.0	0.0
4	38P	144.00	143.50	30.0	0.0167	0.012	0.0	18.0	0.0
5	39P	155.00	154.70	30.0	0.0100	0.012	0.0	18.0	0.0
6	43P	154.00	152.00	32.0	0.0625	0.012	0.0	24.0	0.0
7	44P	154.00	153.00	24.0	0.0417	0.012	0.0	18.0	0.0
8	51P	153.00	152.70	30.0	0.0100	0.012	0.0	24.0	0.0
9	60P	143.00	142.00	44.0	0.0227	0.012	0.0	18.0	0.0
10	65P	156.00	155.50	25.0	0.0200	0.012	0.0	24.0	0.0

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 23S: Basin 1B Runoff Area=2.391 ac 91.22% Impervious Runoff Depth=3.45"
Flow Length=373' Tc=3.0 min CN=WQ Runoff=9.04 cfs 29,923 cf

Subcatchment 24S: Basin 2A West Runoff Area=1.263 ac 69.91% Impervious Runoff Depth=2.65"
Flow Length=246' Tc=2.1 min CN=WQ Runoff=3.69 cfs 12,165 cf

Subcatchment 25S: Basin 2A East Runoff Area=1.175 ac 71.06% Impervious Runoff Depth=2.70"
Flow Length=370' Tc=3.3 min CN=WQ Runoff=3.45 cfs 11,501 cf

Subcatchment 29S: Basin 2B West Runoff Area=4.192 ac 6.25% Impervious Runoff Depth=0.28"
Flow Length=525' Slope=0.0307 '/' Tc=16.5 min CN=WQ Runoff=0.72 cfs 4,262 cf

Subcatchment 30S: Basin 1A Central Runoff Area=5.749 ac 6.24% Impervious Runoff Depth=0.28"
Flow Length=512' Tc=16.8 min CN=WQ Runoff=0.98 cfs 5,840 cf

Subcatchment 31S: Basin 2B East Runoff Area=195,980 sf 6.17% Impervious Runoff Depth=0.28"
Flow Length=489' Slope=0.0301 '/' Tc=16.1 min CN=WQ Runoff=0.77 cfs 4,523 cf

Subcatchment 32S: undeveloped run on to Runoff Area=3,384 sf 0.00% Impervious Runoff Depth=0.53"
Tc=0.0 min CN=55 Runoff=0.05 cfs 151 cf

Subcatchment 33S: undeveloped run on to Runoff Area=3,576 sf 0.00% Impervious Runoff Depth=0.53"
Tc=0.0 min CN=55 Runoff=0.05 cfs 159 cf

Subcatchment 37S: Basin 3 Runoff Area=2.428 ac 0.00% Impervious Runoff Depth=1.05"
Flow Length=359' Tc=14.3 min CN=WQ Runoff=2.14 cfs 9,219 cf

Subcatchment 39S: Basin 1A East Runoff Area=182,579 sf 6.17% Impervious Runoff Depth=0.28"
Flow Length=413' Tc=15.2 min CN=WQ Runoff=0.73 cfs 4,214 cf

Subcatchment 40S: Basin 1A West Runoff Area=1.696 ac 6.25% Impervious Runoff Depth=0.28"
Flow Length=256' Slope=0.0267 '/' Tc=13.7 min CN=WQ Runoff=0.31 cfs 1,724 cf

Subcatchment 41S: Basin 4 East Runoff Area=0.868 ac 57.37% Impervious Runoff Depth=2.19"
Flow Length=329' Tc=3.1 min CN=WQ Runoff=2.06 cfs 6,888 cf

Subcatchment 42S: Basin 4 West Runoff Area=1.605 ac 65.73% Impervious Runoff Depth=2.50"
Flow Length=255' Slope=0.0284 '/' Tc=1.7 min CN=WQ Runoff=4.42 cfs 14,551 cf

Subcatchment 46S: Direct Rainfall Basin Runoff Area=0.311 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=1.30 cfs 4,262 cf

Subcatchment 47S: Direct Rainfall Basin Runoff Area=1.128 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=4.73 cfs 15,458 cf

Subcatchment 48S: Direct Rainfall Basin Runoff Area=0.191 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.80 cfs 2,617 cf

Subcatchment 49S: Direct Rainfall Basin Runoff Area=1.208 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=5.06 cfs 16,554 cf

Subcatchment 50S: Direct Rainfall Basin Runoff Area=0.690 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=2.89 cfs 9,455 cf

Subcatchment 52S: Direct Rainfall Basin Runoff Area=0.075 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.31 cfs 1,028 cf

Subcatchment 54S: Direct Rainfall Basin Runoff Area=8,189 sf 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.79 cfs 2,576 cf

Subcatchment 55S: Direct Rainfall Basin 3 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.10 cfs 315 cf

Subcatchment 56S: Direct Rainfall Basin Runoff Area=0.153 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.64 cfs 2,097 cf

Subcatchment 57S: Direct Rainfall Basin 4 Runoff Area=0.119 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.50 cfs 1,631 cf

Subcatchment 58S: Direct forest Runoff Area=0.714 ac 0.00% Impervious Runoff Depth=0.53"
Flow Length=234' Tc=38.0 min CN=55 Runoff=0.13 cfs 1,383 cf

Subcatchment 59S: Direct Rainfall Basin 4 Runoff Area=0.553 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=2.32 cfs 7,578 cf

Subcatchment 62S: Direct Rainfall Basin 3 Runoff Area=0.371 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=1.55 cfs 5,084 cf

Subcatchment 65S: Direct Rainfall Basin 3 Runoff Area=0.089 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.37 cfs 1,220 cf

Subcatchment 69S: Direct Rainfall Basin Runoff Area=0.105 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.44 cfs 1,439 cf

Subcatchment 70S: Direct Rainfall Basin Runoff Area=1.196 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=5.01 cfs 16,389 cf

Subcatchment 71S: Direct Rainfall to Runoff Area=0.106 ac 100.00% Impervious Runoff Depth=3.78"
Tc=0.0 min CN=98 Runoff=0.44 cfs 1,453 cf

Subcatchment 74S: Direct forest runoff to Runoff Area=0.185 ac 0.00% Impervious Runoff Depth=0.53"
Flow Length=152' Tc=29.5 min CN=55 Runoff=0.04 cfs 358 cf

Reach 29R: DA1A East Swale Avg. Flow Depth=0.24' Max Vel=0.38 fps Inflow=0.73 cfs 4,214 cf
n=0.080 L=835.0' S=0.0073 '/' Capacity=113.94 cfs Outflow=0.38 cfs 4,214 cf

Reach 30R: DA1A West Swale Avg. Flow Depth=0.31' Max Vel=0.33 fps Inflow=1.02 cfs 7,565 cf
n=0.080 L=650.0' S=0.0038 '/' Capacity=82.67 cfs Outflow=0.58 cfs 7,565 cf

Reach 31R: DA2B East Swale Avg. Flow Depth=0.24' Max Vel=0.41 fps Inflow=0.77 cfs 4,523 cf
n=0.080 L=737.0' S=0.0083 '/' Capacity=121.27 cfs Outflow=0.44 cfs 4,523 cf

Reach 33R: DA2B West Swale Avg. Flow Depth=0.29' Max Vel=0.32 fps Inflow=0.72 cfs 4,262 cf
n=0.080 L=384.0' S=0.0039 '/' Capacity=83.31 cfs Outflow=0.49 cfs 4,262 cf

Reach 34R: DA4 West Swale Avg. Flow Depth=0.56' Max Vel=0.52 fps Inflow=4.42 cfs 14,551 cf
n=0.080 L=357.0' S=0.0042 '/' Capacity=86.41 cfs Outflow=2.95 cfs 14,551 cf

Reach 35R: DA2A West Swale Avg. Flow Depth=0.48' Max Vel=0.54 fps Inflow=3.69 cfs 12,165 cf
n=0.080 L=478.0' S=0.0056 '/' Capacity=100.19 cfs Outflow=2.21 cfs 12,165 cf

Reach 36R: DA2A East Swale Avg. Flow Depth=0.45' Max Vel=0.89 fps Inflow=3.45 cfs 11,501 cf
n=0.080 L=146.0' S=0.0171 '/' Capacity=174.43 cfs Outflow=3.21 cfs 11,501 cf

Reach 37R: DA1B Swale Avg. Flow Depth=0.73' Max Vel=0.68 fps Inflow=9.04 cfs 29,923 cf
n=0.080 L=383.0' S=0.0052 '/' Capacity=96.33 cfs Outflow=6.44 cfs 29,923 cf

Reach 38R: DA3 Swale Avg. Flow Depth=0.58' Max Vel=2.03 fps Inflow=2.14 cfs 9,219 cf
n=0.049 L=418.0' S=0.0251 '/' Capacity=55.69 cfs Outflow=2.03 cfs 9,219 cf

Reach 39R: DA 1A Central Swale A Avg. Flow Depth=0.19' Max Vel=0.27 fps Inflow=0.31 cfs 1,724 cf
n=0.080 L=498.0' S=0.0050 '/' Capacity=94.45 cfs Outflow=0.17 cfs 1,724 cf

Reach 41R: DA 1A Central Swale B Avg. Flow Depth=0.26' Max Vel=0.82 fps Inflow=0.17 cfs 1,724 cf
n=0.080 L=188.0' S=0.0319 '/' Capacity=38.45 cfs Outflow=0.17 cfs 1,724 cf

Reach 42R: DA4 East Swale Avg. Flow Depth=0.39' Max Vel=0.71 fps Inflow=2.06 cfs 6,888 cf
n=0.080 L=114.0' S=0.0132 '/' Capacity=152.91 cfs Outflow=1.93 cfs 6,888 cf

Reach 43R: DA4 Roadside swale Avg. Flow Depth=0.36' Max Vel=2.01 fps Inflow=2.95 cfs 14,551 cf
n=0.049 L=103.0' S=0.0243 '/' Capacity=73.85 cfs Outflow=2.92 cfs 14,551 cf

Reach 44R: DA4 Culvert Inflow=2.92 cfs 14,551 cf
Outflow=2.92 cfs 14,551 cf

Reach 45R: DA2B Road Swale Avg. Flow Depth=0.00' Max Vel=0.00 fps
n=0.080 L=296.0' S=0.0287 '/' Capacity=36.47 cfs Outflow=0.00 cfs 0 cf

Pond 15P: Basin 1A Forebay Peak Elev=158.90' Storage=3,412 cf Inflow=0.98 cfs 12,806 cf
Outflow=0.98 cfs 9,568 cf

Pond 18P: Basin 1B Forebay Peak Elev=158.83' Storage=11,684 cf Inflow=6.61 cfs 32,170 cf
Primary=5.90 cfs 22,161 cf Secondary=0.00 cfs 0 cf Outflow=5.90 cfs 22,161 cf

Pond 26P: Basin 2A Forebay Peak Elev=157.95' Storage=8,506 cf Inflow=4.34 cfs 26,242 cf
Primary=3.88 cfs 18,996 cf Secondary=0.00 cfs 0 cf Outflow=3.88 cfs 18,996 cf

Pond 38P: Basin 3 Forebay Peak Elev=145.54' Storage=5,605 cf Inflow=2.05 cfs 9,534 cf
Primary=0.22 cfs 4,076 cf Secondary=0.00 cfs 0 cf Outflow=0.22 cfs 4,076 cf

Pond 39P: Basin 4 Forebay Peak Elev=158.22' Storage=10,150 cf Inflow=3.65 cfs 23,069 cf
Primary=3.29 cfs 13,859 cf Secondary=0.00 cfs 0 cf Outflow=3.29 cfs 13,859 cf

Pond 43P: Basin 1B Bioretention	Peak Elev=157.54' Storage=20,254 cf	Inflow=6.06 cfs 24,937 cf Outflow=0.24 cfs 4,951 cf
Pond 44P: Basin 2A Bioretention	Peak Elev=157.52' Storage=22,848 cf	Inflow=4.28 cfs 23,258 cf Outflow=0.09 cfs 574 cf
Pond 45P: Basin 2A Infiltration	Peak Elev=151.33' Storage=16,031 cf	Inflow=4.73 cfs 16,031 cf Outflow=0.00 cfs 0 cf
Pond 46P: Basin 1B Infiltration	Peak Elev=148.86' Storage=14,405 cf	Inflow=2.89 cfs 14,406 cf Outflow=0.00 cfs 0 cf
Pond 48P: Basin 1A Infiltration Basin	Peak Elev=151.13' Storage=26,120 cf	Inflow=5.06 cfs 26,122 cf Outflow=0.00 cfs 0 cf
Pond 51P: Basin 4 Bioretention	Peak Elev=156.52' Storage=14,674 cf	Inflow=3.44 cfs 16,695 cf Outflow=0.13 cfs 2,172 cf
Pond 52P: Basin 4 Infiltration	Peak Elev=153.46' Storage=10,108 cf	Inflow=2.32 cfs 10,109 cf Outflow=0.00 cfs 0 cf
Pond 60P: Basin 3 Bioretention	Peak Elev=144.33' Storage=5,295 cf	Inflow=0.37 cfs 5,296 cf Outflow=0.00 cfs 0 cf
Pond 61P: Basin 3 Infiltration	Peak Elev=142.46' Storage=5,084 cf	Inflow=1.55 cfs 5,084 cf Outflow=0.00 cfs 0 cf
Pond 65P: Basin 2B Forebay	Peak Elev=158.58' Storage=4,268 cf	Inflow=0.92 cfs 10,223 cf Outflow=0.77 cfs 6,160 cf
Pond 66P: Basin 2B Infiltration Basin	Peak Elev=151.68' Storage=22,548 cf	Inflow=5.01 cfs 22,549 cf Outflow=0.00 cfs 0 cf

Total Runoff Area = 1,638,827 sf Runoff Volume = 196,016 cf Average Runoff Depth = 1.44"
64.86% Pervious = 1,062,927 sf 35.14% Impervious = 575,900 sf

Summary for Subcatchment 23S: Basin 1B

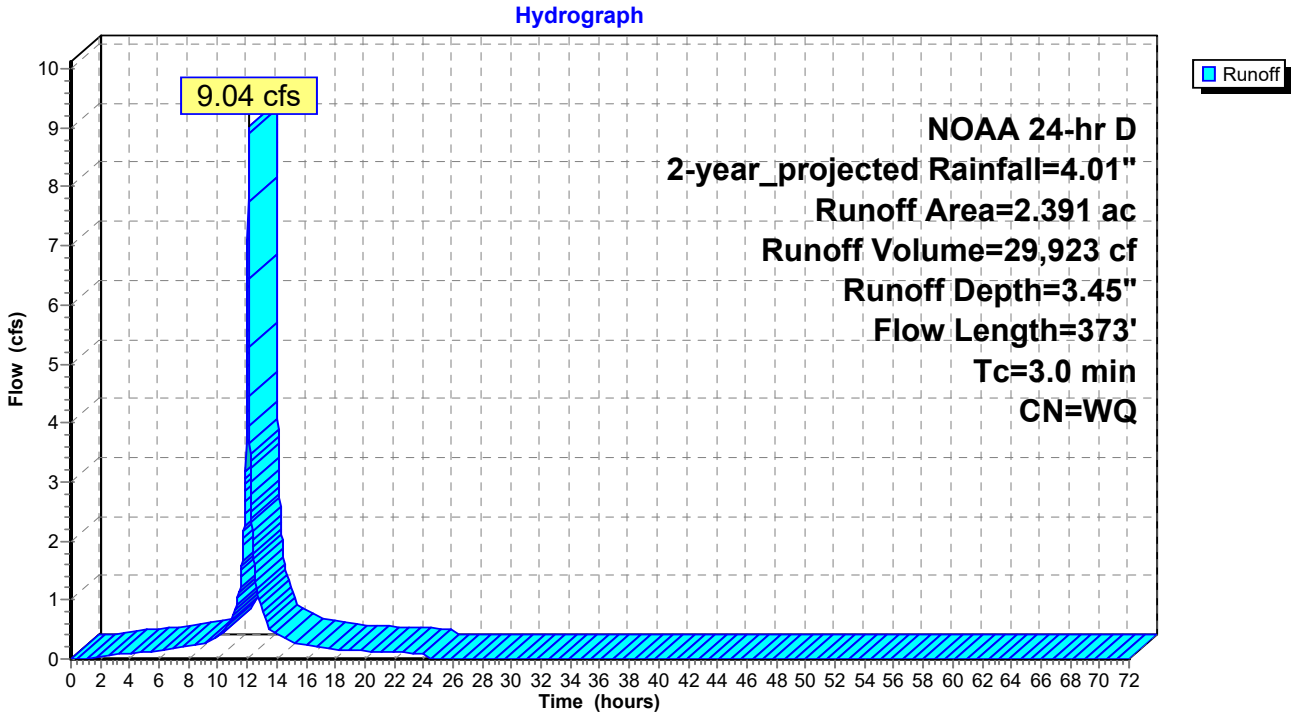
Runoff = 9.04 cfs @ 12.10 hrs, Volume= 29,923 cf, Depth= 3.45"
Routed to Reach 37R : DA1B Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
	0.210	39	>75% Grass cover, Good, HSG A
*	0.084	98	gravel road
*	2.097	98	compost/recycling area
	2.391		Weighted Average
	0.210	39	8.78% Pervious Area
	2.181	98	91.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0282	1.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
1.0	195	0.0282	3.41		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.1	78	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.0	373	Total			

Subcatchment 23S: Basin 1B



Summary for Subcatchment 24S: Basin 2A West

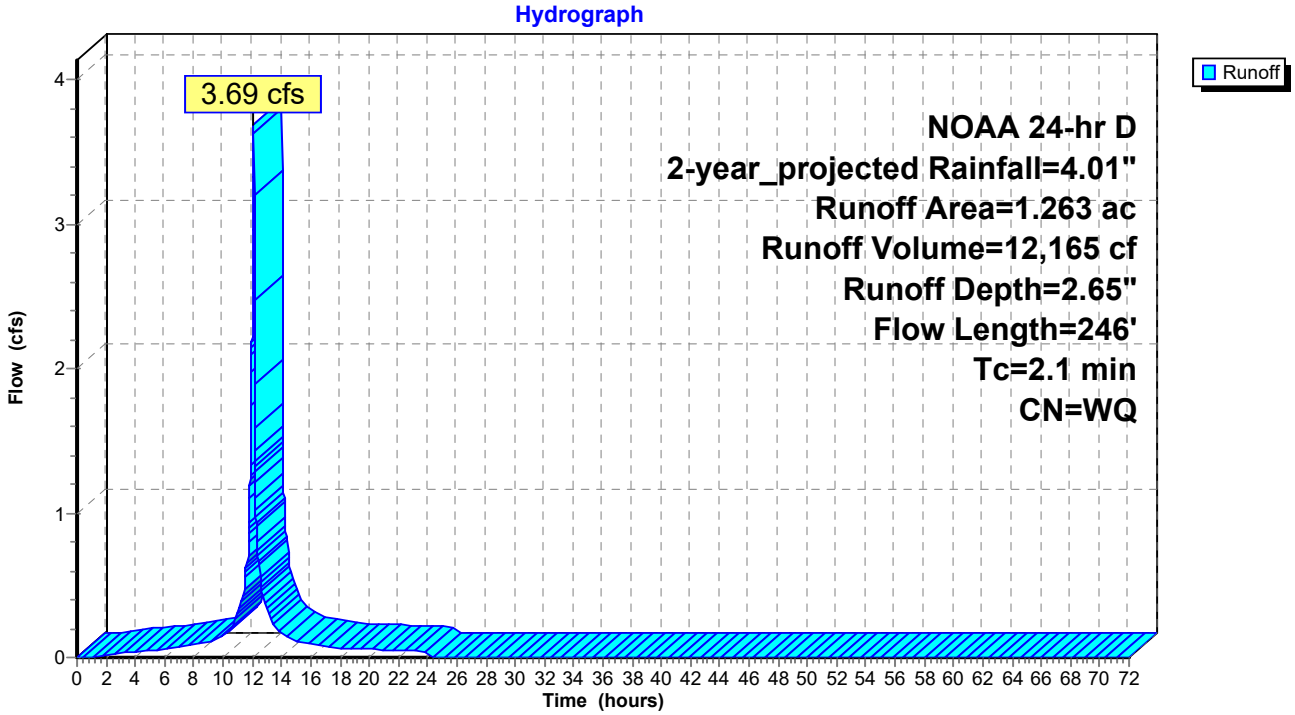
Runoff = 3.69 cfs @ 12.10 hrs, Volume= 12,165 cf, Depth= 2.65"
Routed to Reach 35R : DA2A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.380	39	grass cover
*	0.883	98	compost area
	1.263		Weighted Average
	0.380	39	30.09% Pervious Area
	0.883	98	69.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0303	1.82		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.4	85	0.0303	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.8	61	0.0309	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	246	Total			

Subcatchment 24S: Basin 2A West



Summary for Subcatchment 25S: Basin 2A East

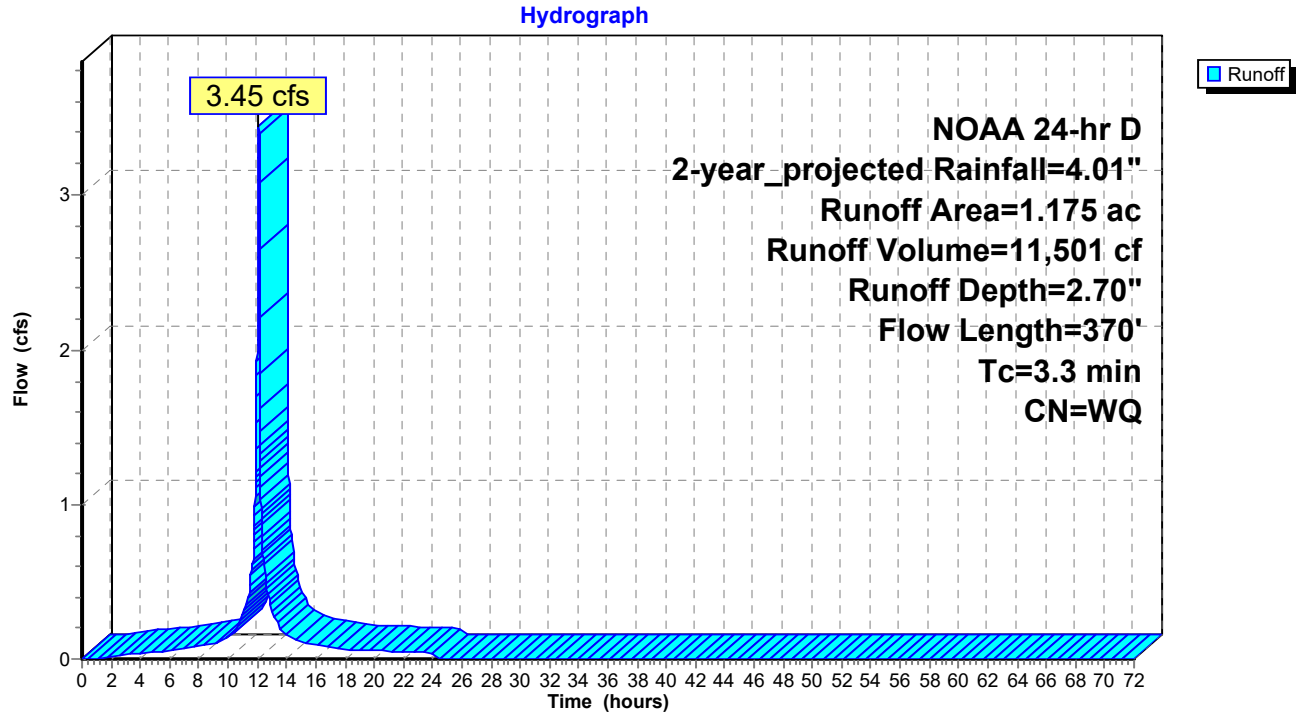
Runoff = 3.45 cfs @ 12.11 hrs, Volume= 11,501 cf, Depth= 2.70"
Routed to Reach 36R : DA2A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.223	98	gravel road
*	0.612	98	compost area
*	0.340	39	grass cover
	1.175		Weighted Average
	0.340	39	28.94% Pervious Area
	0.835	98	71.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0300	1.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.6	136	0.0302	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	134	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	370	Total			

Subcatchment 25S: Basin 2A East



Summary for Subcatchment 29S: Basin 2B West

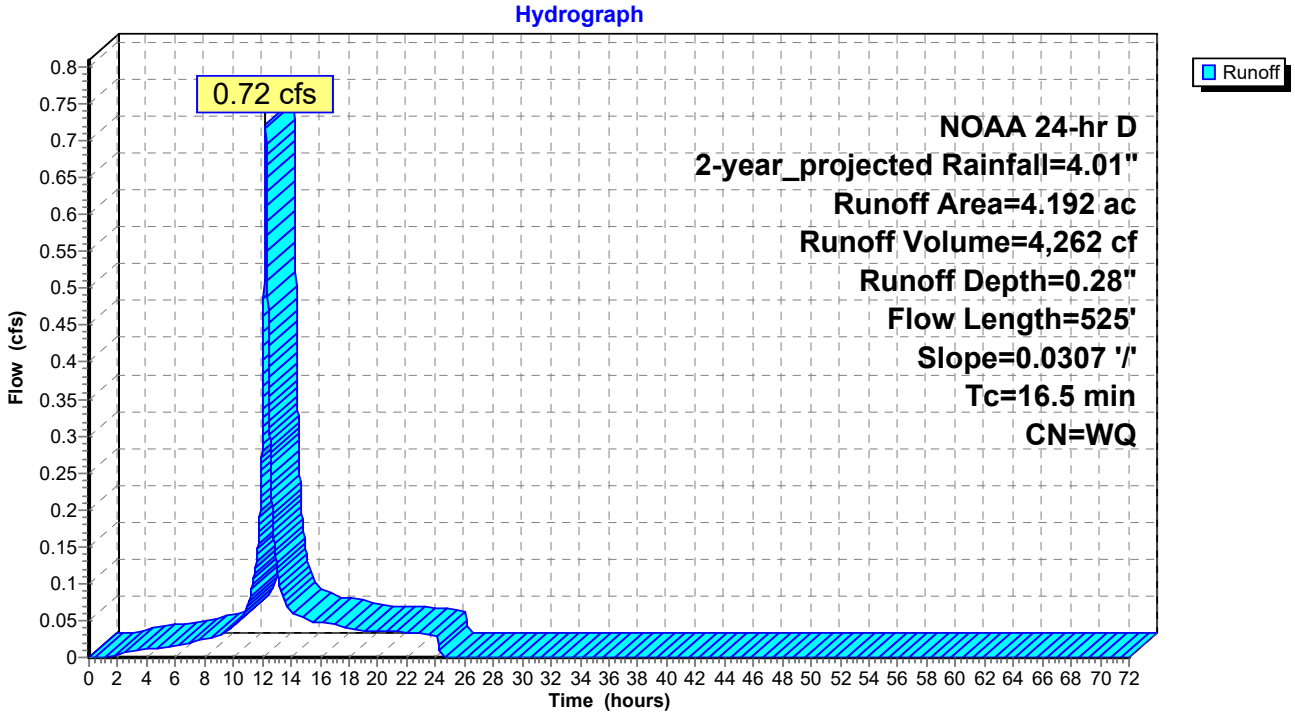
Runoff = 0.72 cfs @ 12.24 hrs, Volume= 4,262 cf, Depth= 0.28"
Routed to Reach 33R : DA2B West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
	3.930	39	>75% Grass cover, Good, HSG A
*	0.262	98	Solar
	4.192		Weighted Average
	3.930	39	93.75% Pervious Area
	0.262	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	100	0.0307	0.16		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.8	425	0.0307	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.5	525	Total			

Subcatchment 29S: Basin 2B West



Summary for Subcatchment 30S: Basin 1A Central

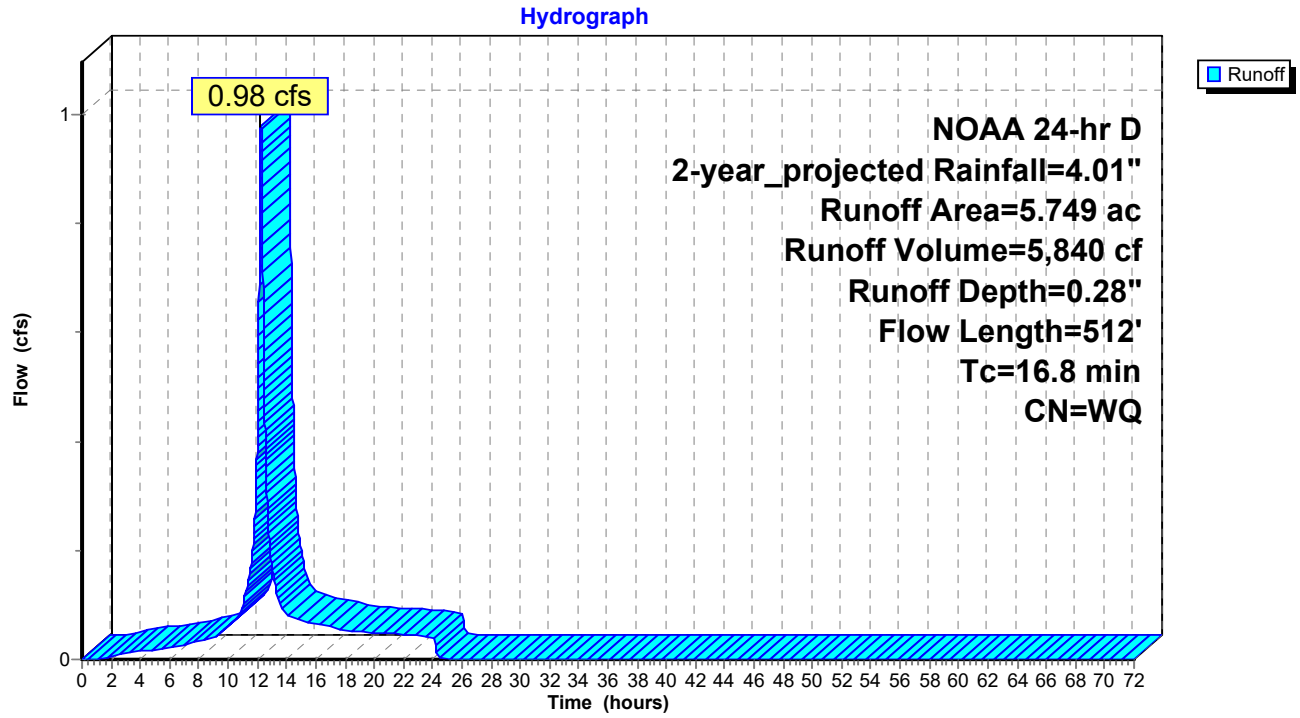
Runoff = 0.98 cfs @ 12.24 hrs, Volume= 5,840 cf, Depth= 0.28"
Routed to Reach 30R : DA1A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.359	98	solar
*	5.390	39	grass
	5.749		Weighted Average
	5.390	39	93.76% Pervious Area
	0.359	98	6.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	100	0.0291	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.8	412	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.8	512	Total			

Subcatchment 30S: Basin 1A Central



Summary for Subcatchment 31S: Basin 2B East

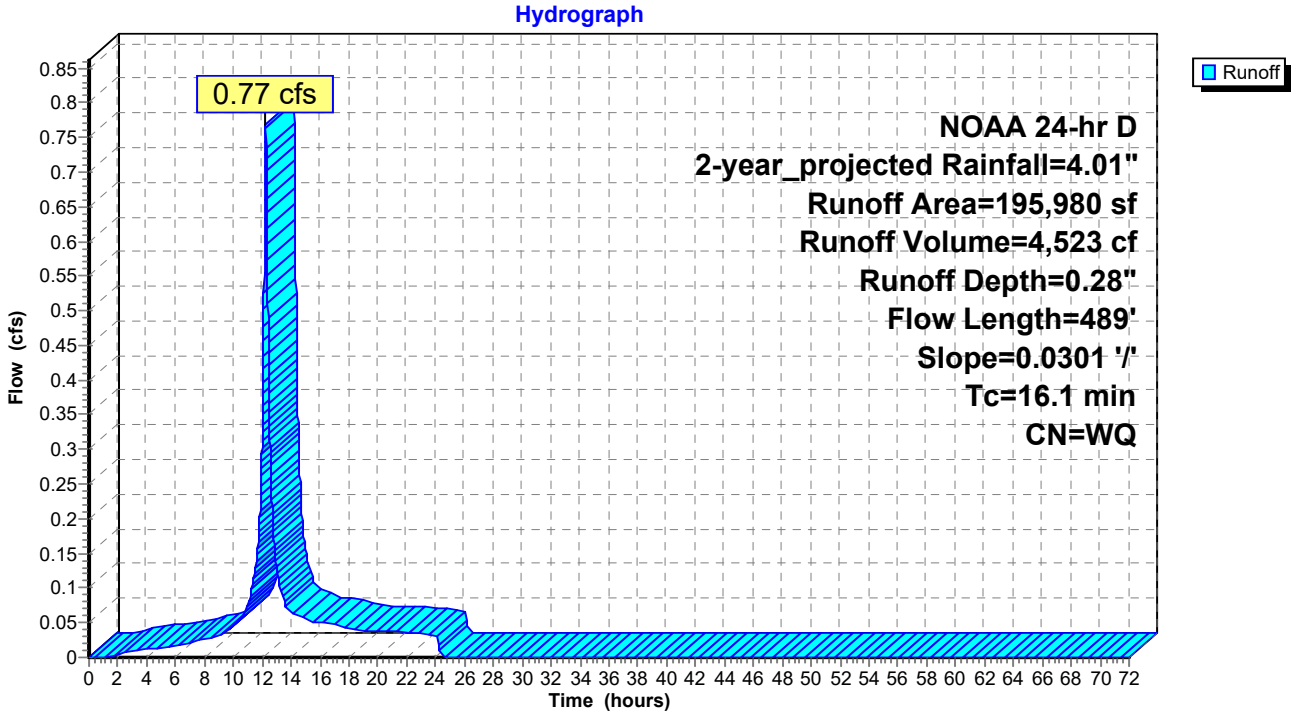
Runoff = 0.77 cfs @ 12.24 hrs, Volume= 4,523 cf, Depth= 0.28"
Routed to Reach 31R : DA2B East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (sf)	CN	Description
	183,896	39	>75% Grass cover, Good, HSG A
*	12,084	98	Solar
	195,980		Weighted Average
	183,896	39	93.83% Pervious Area
	12,084	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0301	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.3	389	0.0301	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.1	489	Total			

Subcatchment 31S: Basin 2B East



Summary for Subcatchment 32S: undeveloped run on to forebay

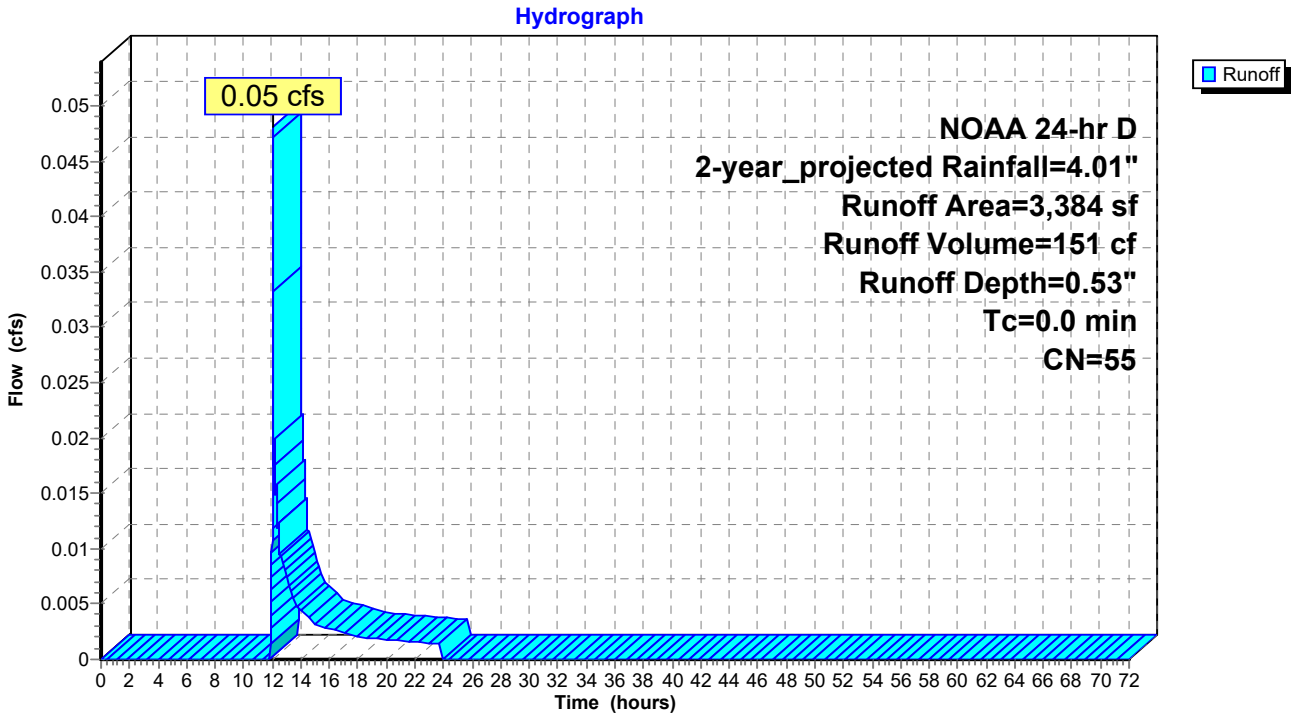
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.05 cfs @ 12.09 hrs, Volume= 151 cf, Depth= 0.53"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (sf)	CN	Description
*	3,384	55	
	3,384	55	100.00% Pervious Area

Subcatchment 32S: undeveloped run on to forebay



Summary for Subcatchment 33S: undeveloped run on to bioretention

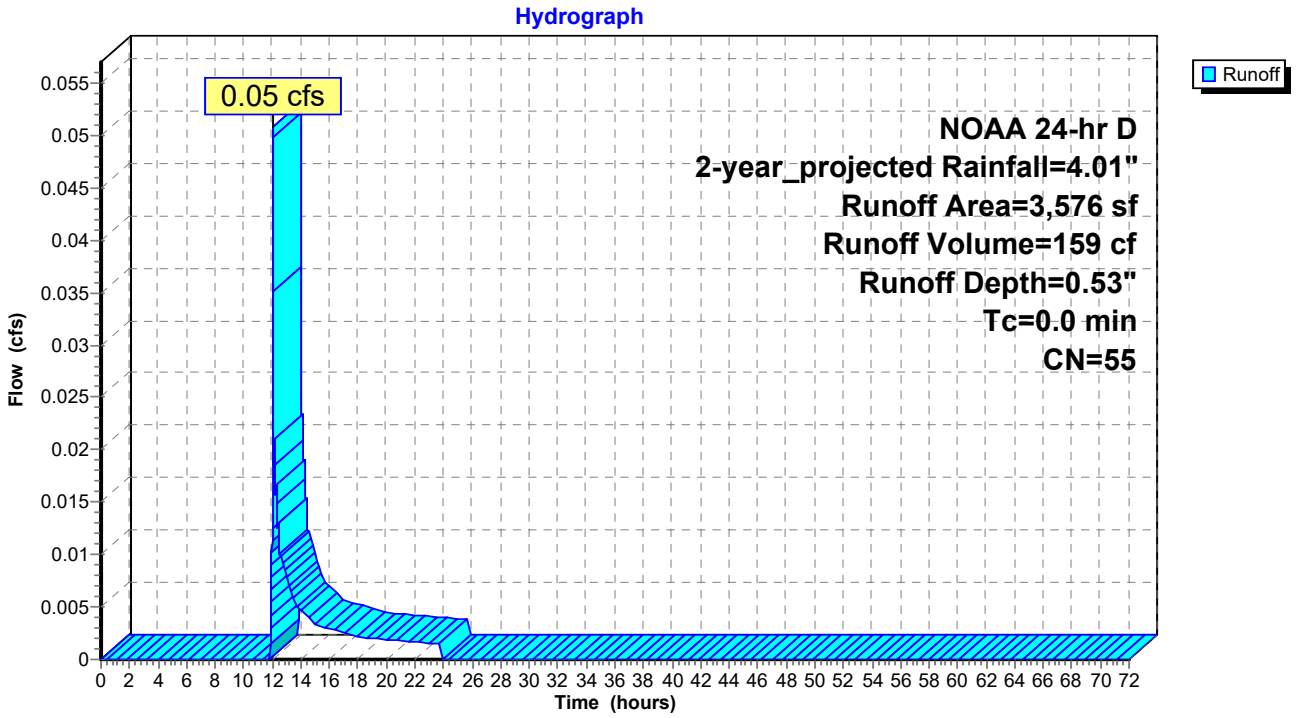
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.05 cfs @ 12.09 hrs, Volume= 159 cf, Depth= 0.53"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (sf)	CN	Description
*	3,576	55	
	3,576	55	100.00% Pervious Area

Subcatchment 33S: undeveloped run on to bioretention



Summary for Subcatchment 37S: Basin 3

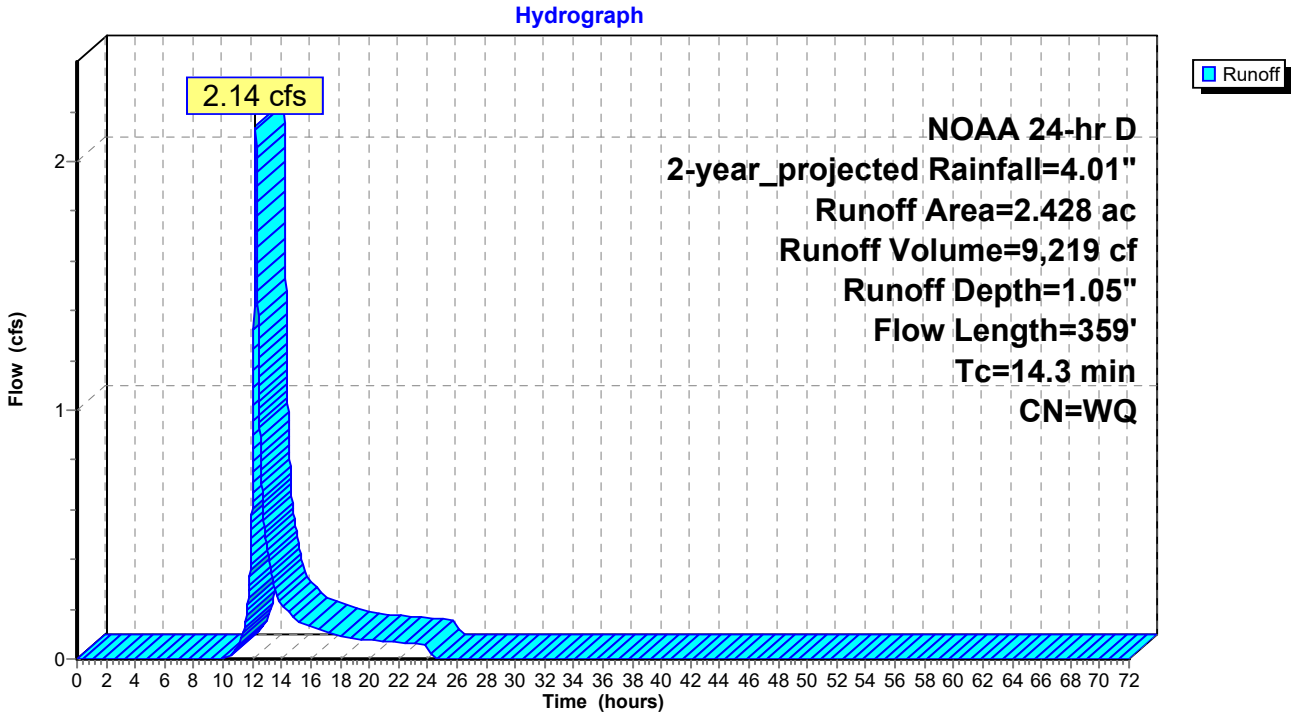
Runoff = 2.14 cfs @ 12.23 hrs, Volume= 9,219 cf, Depth= 1.05"
Routed to Reach 38R : DA3 Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.720	39	grass
*	1.708	72	sand
	2.428		Weighted Average
	2.428	62	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	35	0.5455	0.40		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
7.5	65	0.0321	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
3.4	107	0.0055	0.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	152	0.0066	1.31		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
14.3	359	Total			

Subcatchment 37S: Basin 3



Summary for Subcatchment 39S: Basin 1A East

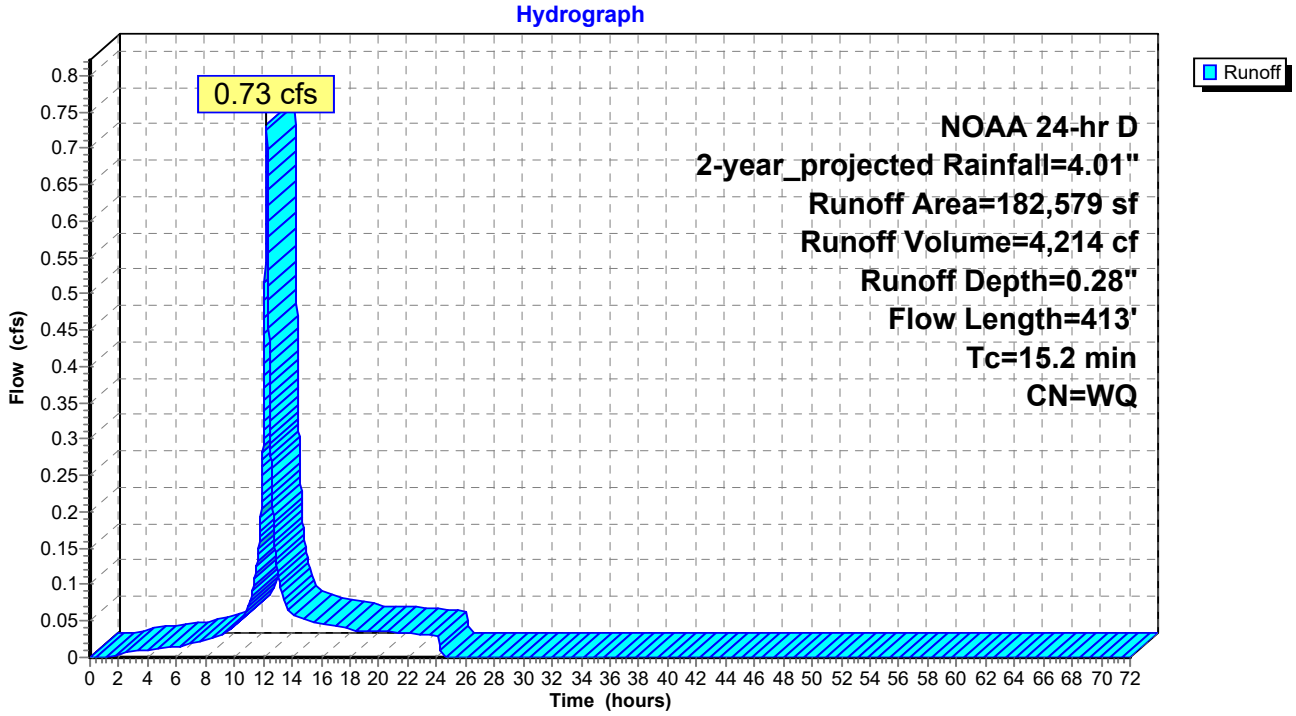
Runoff = 0.73 cfs @ 12.23 hrs, Volume= 4,214 cf, Depth= 0.28"
Routed to Reach 29R : DA1A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (sf)	CN	Description
	171,321	39	>75% Grass cover, Good, HSG A
*	11,258	98	Solar
	182,579		Weighted Average
	171,321	39	93.83% Pervious Area
	11,258	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0299	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
4.3	313	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.2	413	Total			

Subcatchment 39S: Basin 1A East



Summary for Subcatchment 40S: Basin 1A West

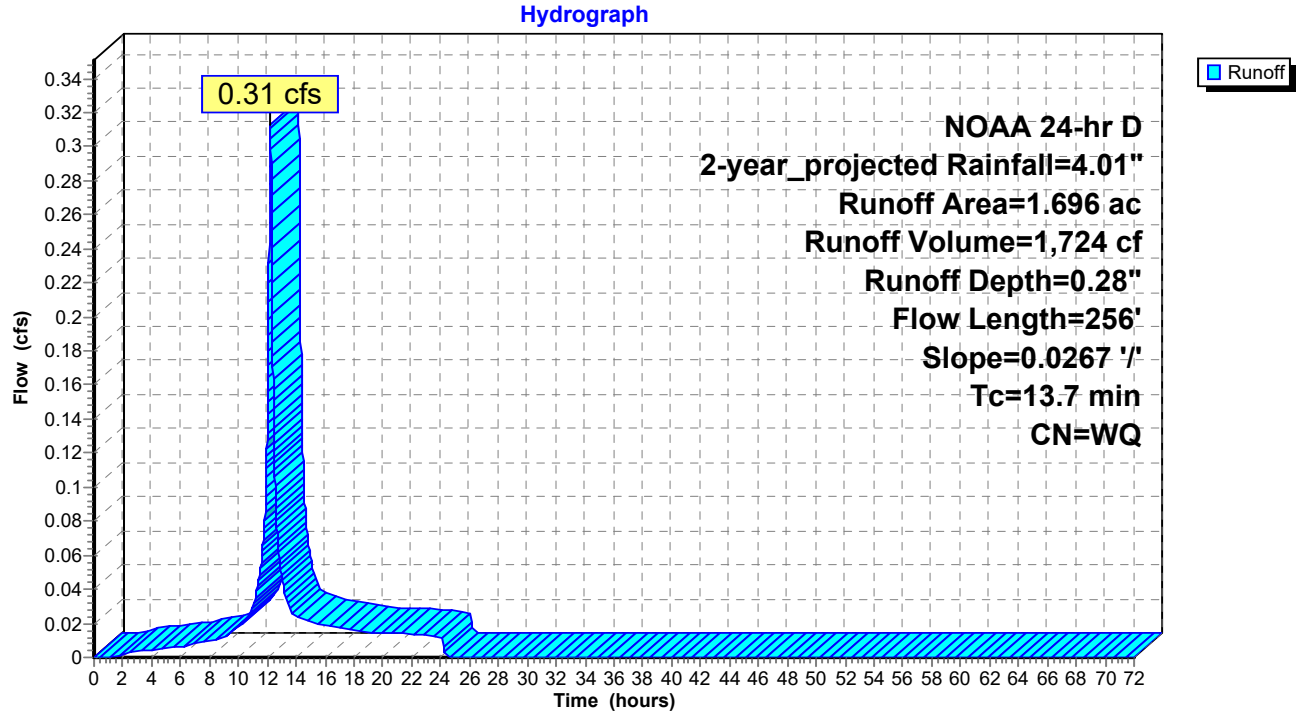
Runoff = 0.31 cfs @ 12.21 hrs, Volume= 1,724 cf, Depth= 0.28"
Routed to Reach 39R : DA 1A Central Swale A

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
	1.590	39	>75% Grass cover, Good, HSG A
*	0.106	98	Solar
	1.696		Weighted Average
	1.590	39	93.75% Pervious Area
	0.106	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.4	100	0.0267	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
2.3	156	0.0267	1.14		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
13.7	256	Total			

Subcatchment 40S: Basin 1A West



Summary for Subcatchment 41S: Basin 4 East

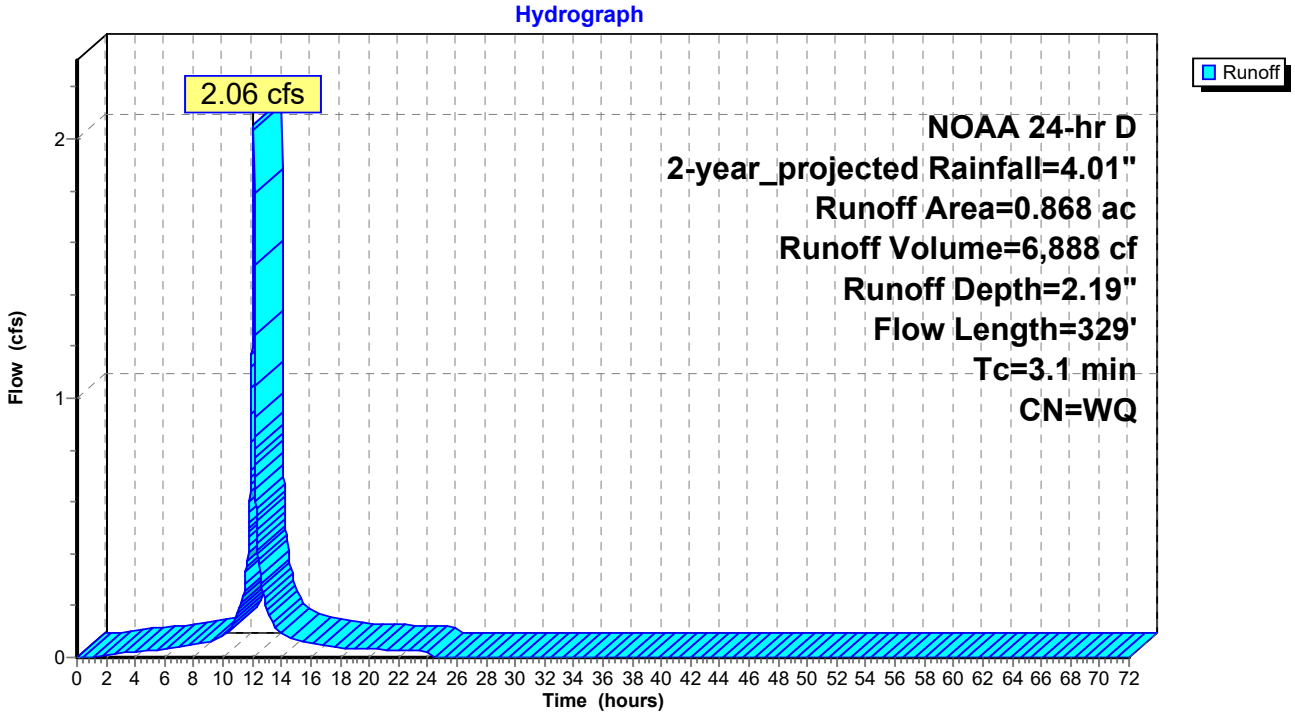
Runoff = 2.06 cfs @ 12.10 hrs, Volume= 6,888 cf, Depth= 2.19"
Routed to Reach 42R : DA4 East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.498	98	salt storage area
*	0.370	39	grass cover
	0.868		Weighted Average
	0.370	39	42.63% Pervious Area
	0.498	98	57.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0296	1.80		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.4	90	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	139	0.0325	1.26		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.1	329	Total			

Subcatchment 41S: Basin 4 East



Summary for Subcatchment 42S: Basin 4 West

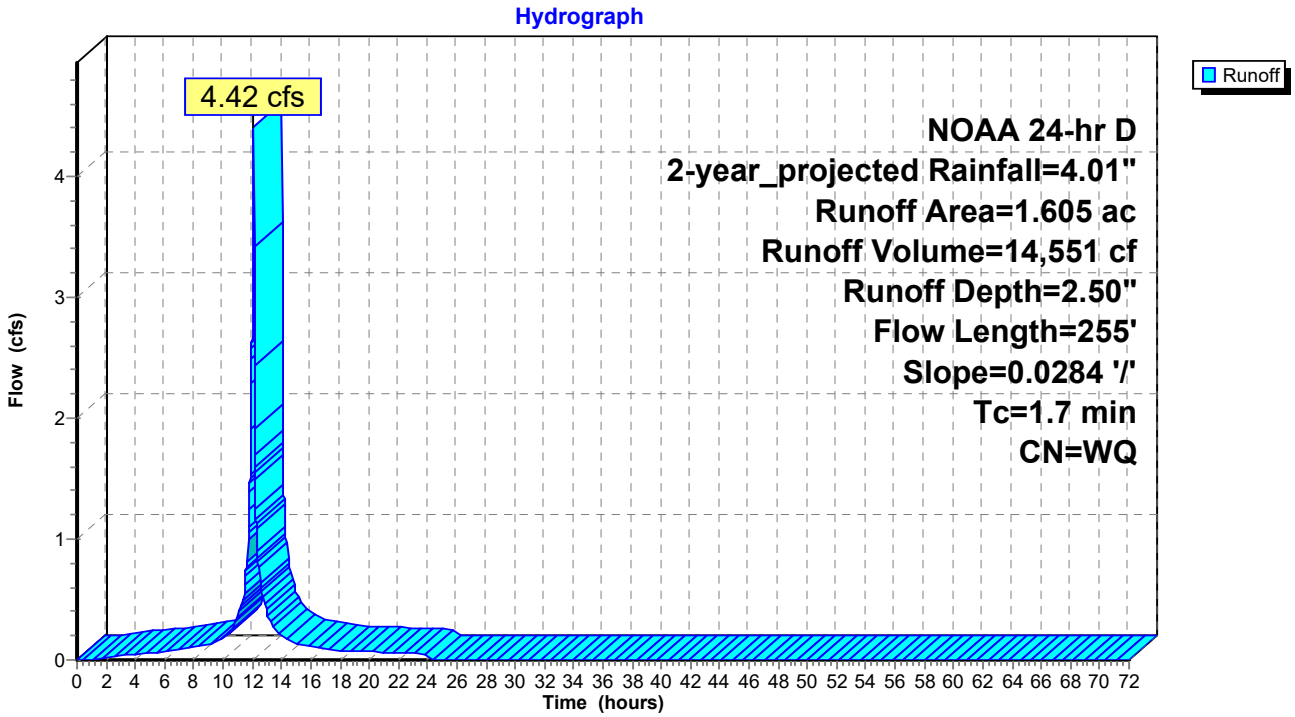
Runoff = 4.42 cfs @ 12.10 hrs, Volume= 14,551 cf, Depth= 2.50"
Routed to Reach 34R : DA4 West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.237	98	gravel road
*	0.818	98	compost/recycling area
*	0.550	39	grass cover
	1.605		Weighted Average
	0.550	39	34.27% Pervious Area
	1.055	98	65.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0284	1.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.8	155	0.0284	3.42		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.7	255	Total			

Subcatchment 42S: Basin 4 West



Summary for Subcatchment 46S: Direct Rainfall Basin 2A Bioretention

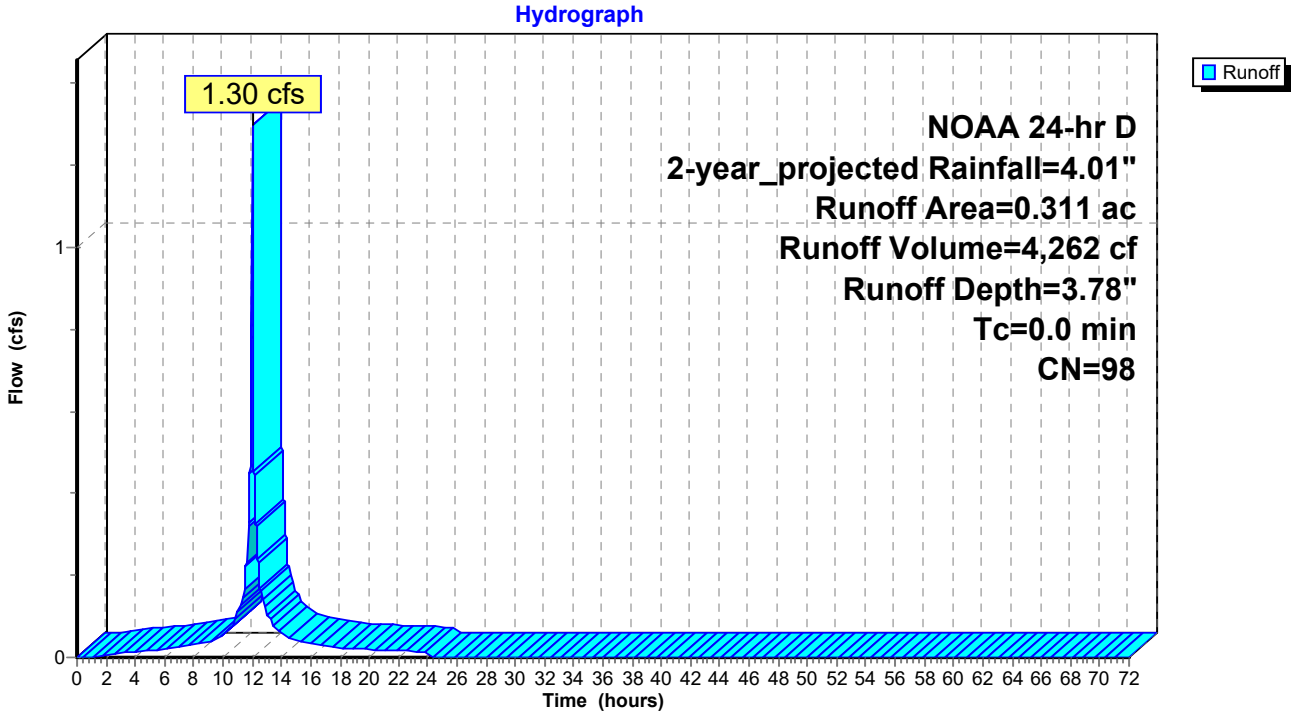
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.30 cfs @ 12.09 hrs, Volume= 4,262 cf, Depth= 3.78"
Routed to Pond 44P : Basin 2A Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.311	98	Direct Rainfall
	0.311	98	100.00% Impervious Area

Subcatchment 46S: Direct Rainfall Basin 2A Bioretention



Summary for Subcatchment 47S: Direct Rainfall Basin 2A Infiltration

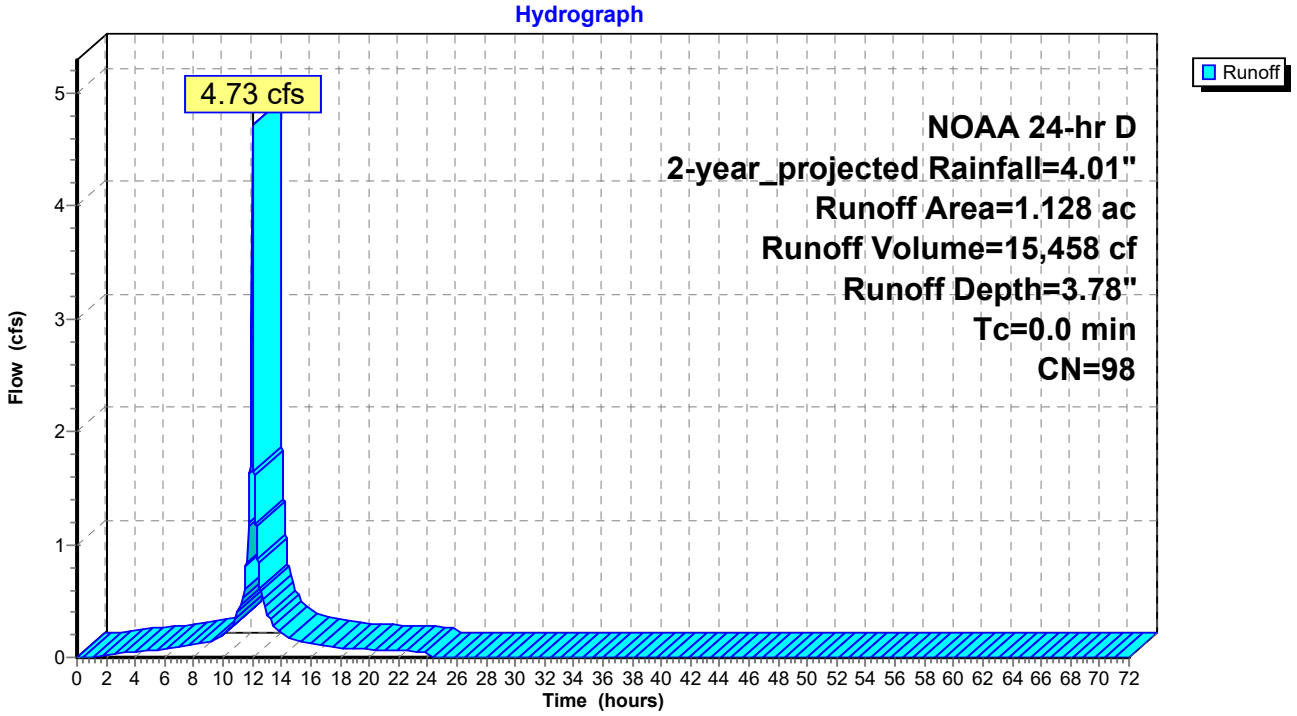
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 4.73 cfs @ 12.09 hrs, Volume= 15,458 cf, Depth= 3.78"
Routed to Pond 45P : Basin 2A Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	1.128	98	Direct Rainfall
	1.128	98	100.00% Impervious Area

Subcatchment 47S: Direct Rainfall Basin 2A Infiltration



Summary for Subcatchment 48S: Direct Rainfall Basin 1B Bioretention

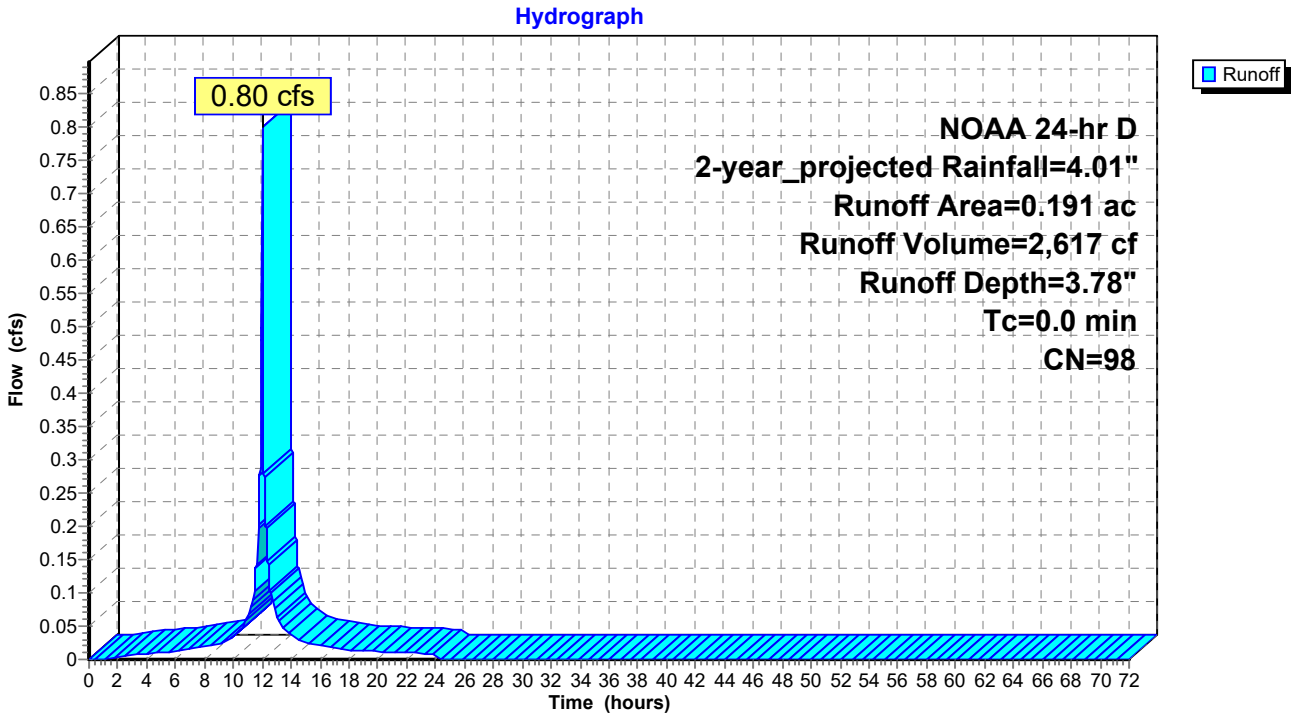
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.80 cfs @ 12.09 hrs, Volume= 2,617 cf, Depth= 3.78"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.191	98	direct rainfall onto bioretention
	0.191	98	100.00% Impervious Area

Subcatchment 48S: Direct Rainfall Basin 1B Bioretention



Summary for Subcatchment 49S: Direct Rainfall Basin 1A Infiltration

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

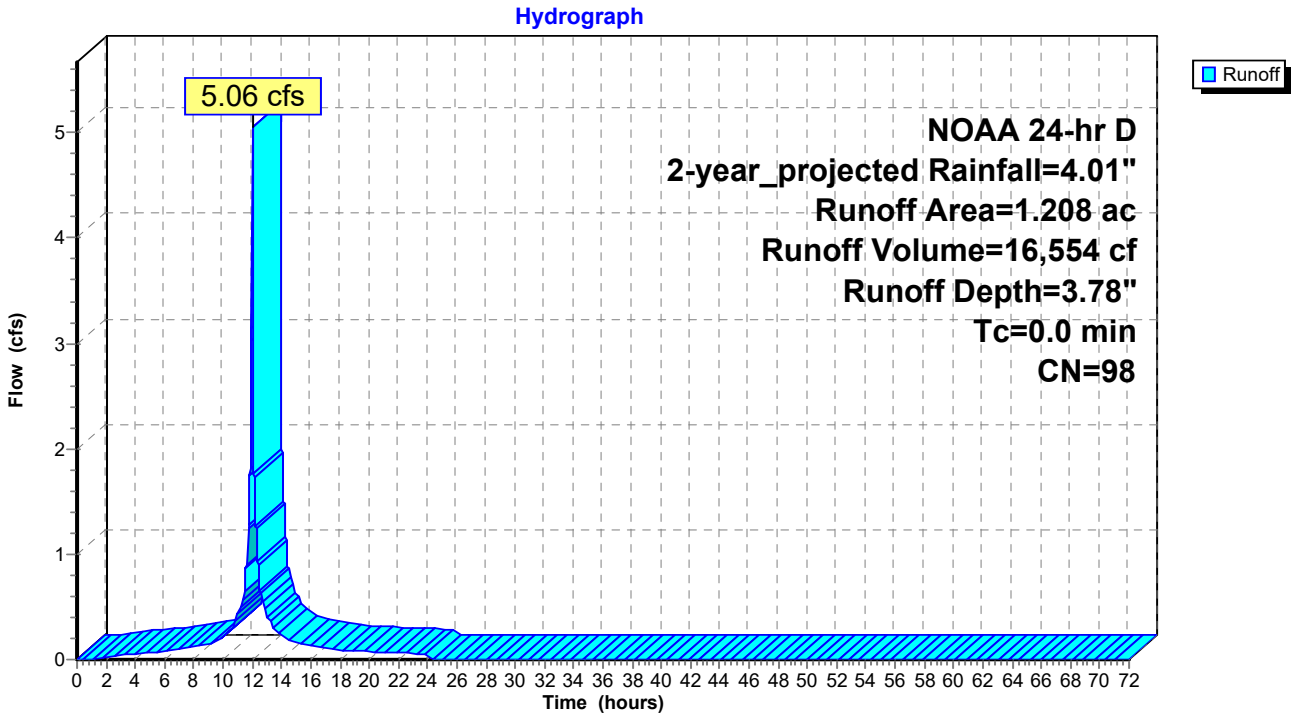
Runoff = 5.06 cfs @ 12.09 hrs, Volume= 16,554 cf, Depth= 3.78"
Routed to Pond 48P : Basin 1A Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	1.208	98	
	1.208	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					**Direct Entry,**

Subcatchment 49S: Direct Rainfall Basin 1A Infiltration



Summary for Subcatchment 50S: Direct Rainfall Basin 1B Infiltration

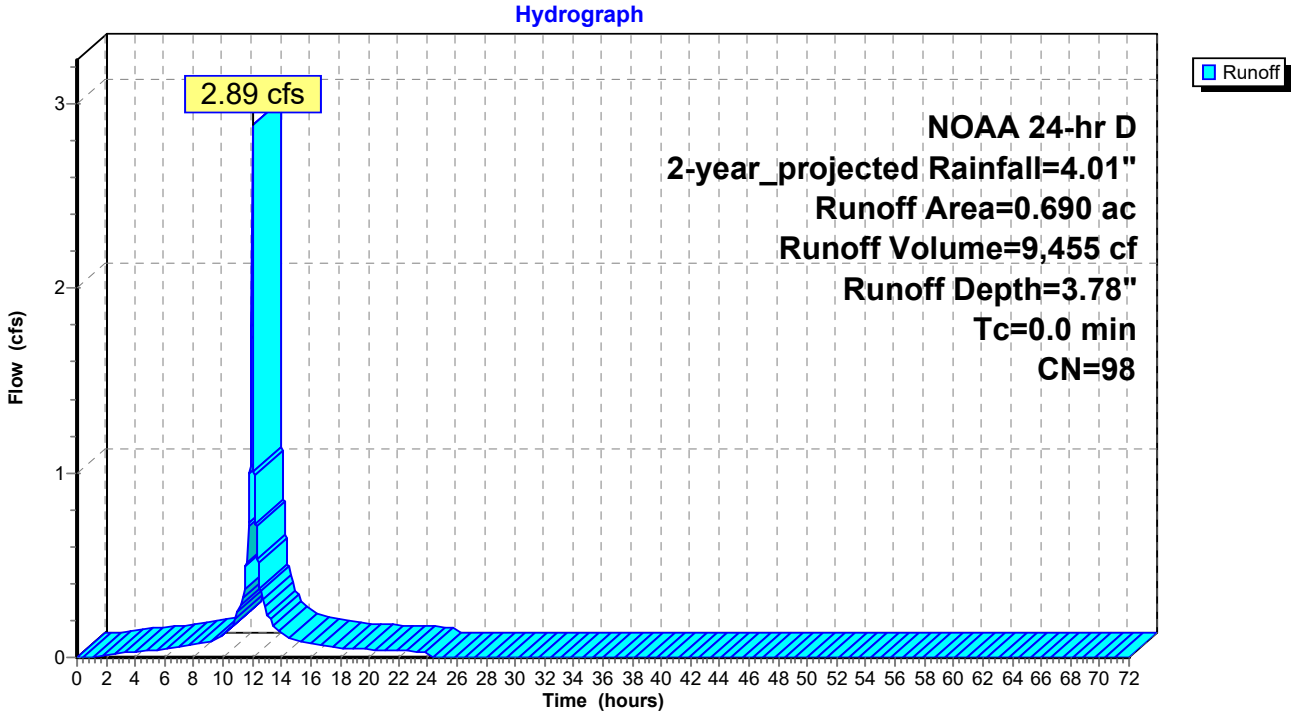
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.89 cfs @ 12.09 hrs, Volume= 9,455 cf, Depth= 3.78"
Routed to Pond 46P : Basin 1B Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.690	98	direct rainfall
	0.690	98	100.00% Impervious Area

Subcatchment 50S: Direct Rainfall Basin 1B Infiltration



Summary for Subcatchment 52S: Direct Rainfall Basin 1A Forebay

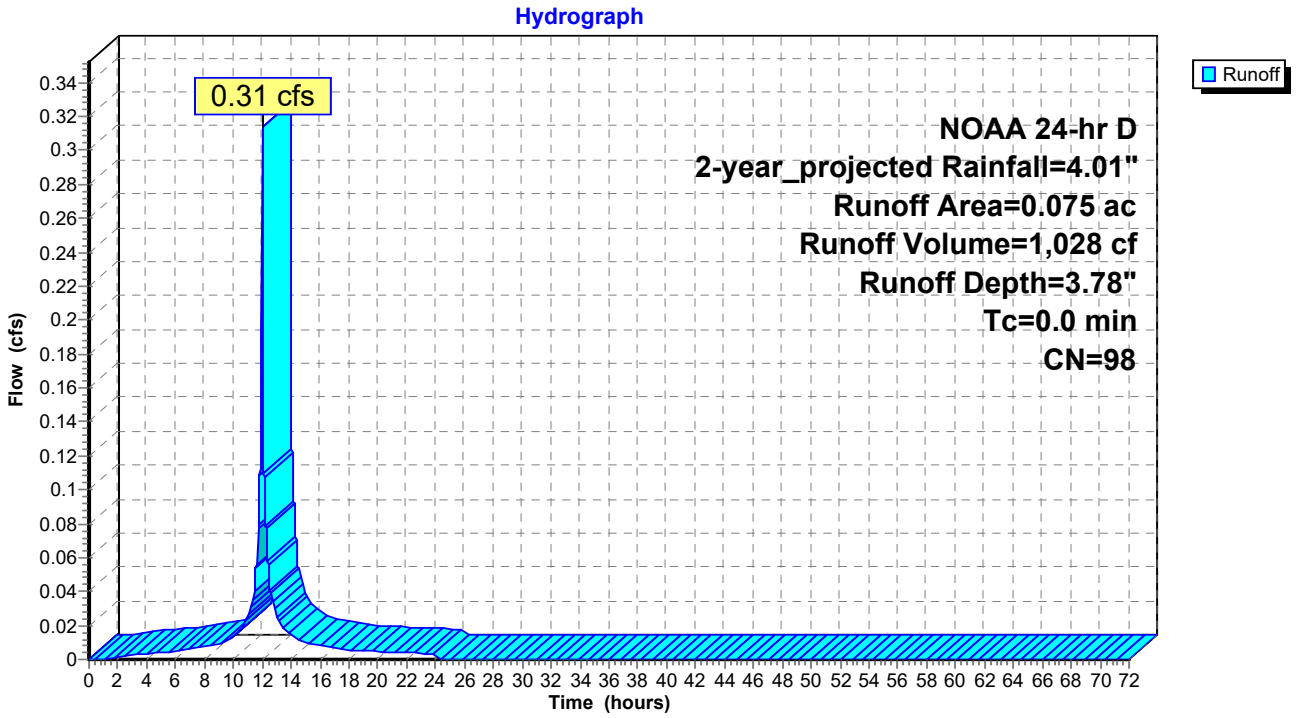
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.31 cfs @ 12.09 hrs, Volume= 1,028 cf, Depth= 3.78"
Routed to Pond 15P : Basin 1A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.075	98	direct rainfall
	0.075	98	100.00% Impervious Area

Subcatchment 52S: Direct Rainfall Basin 1A Forebay



Summary for Subcatchment 54S: Direct Rainfall Basin 2A forebay

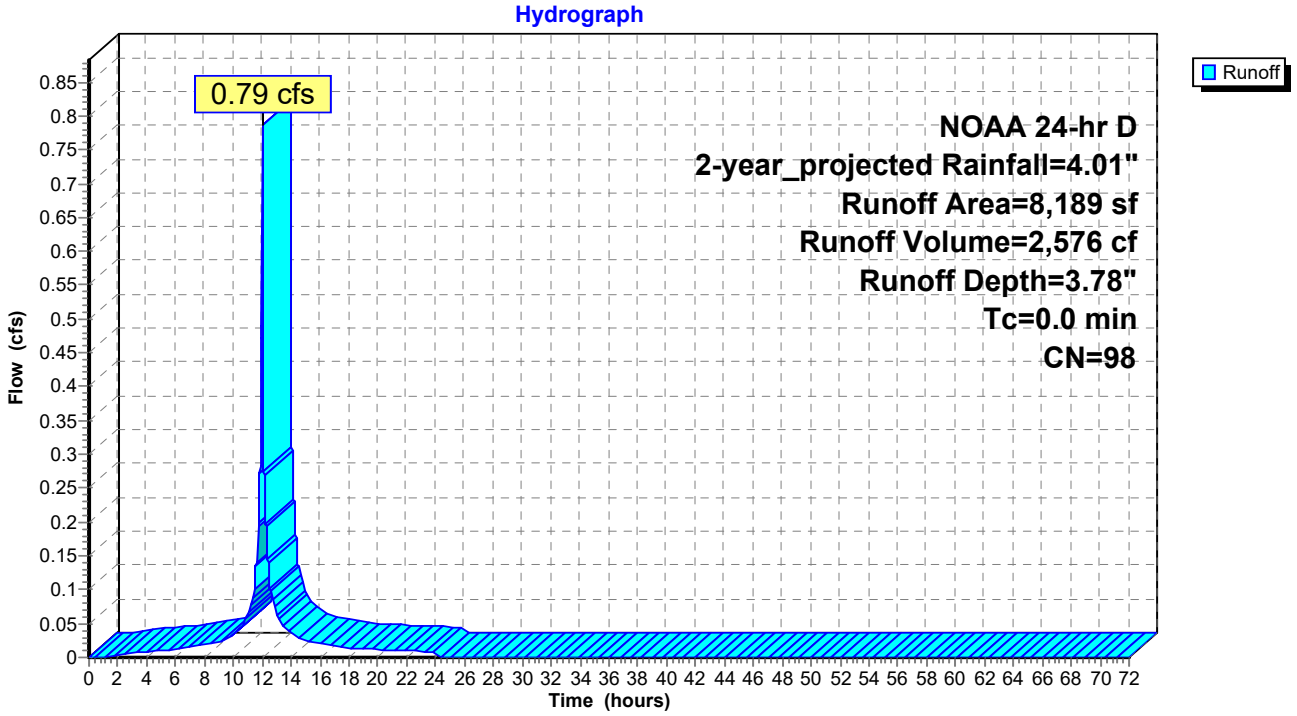
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.79 cfs @ 12.09 hrs, Volume= 2,576 cf, Depth= 3.78"
Routed to Pond 26P : Basin 2A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (sf)	CN	Description
*	8,189	98	direct rainfall to forebay
	8,189	98	100.00% Impervious Area

Subcatchment 54S: Direct Rainfall Basin 2A forebay



Summary for Subcatchment 55S: Direct Rainfall Basin 3 Forebay

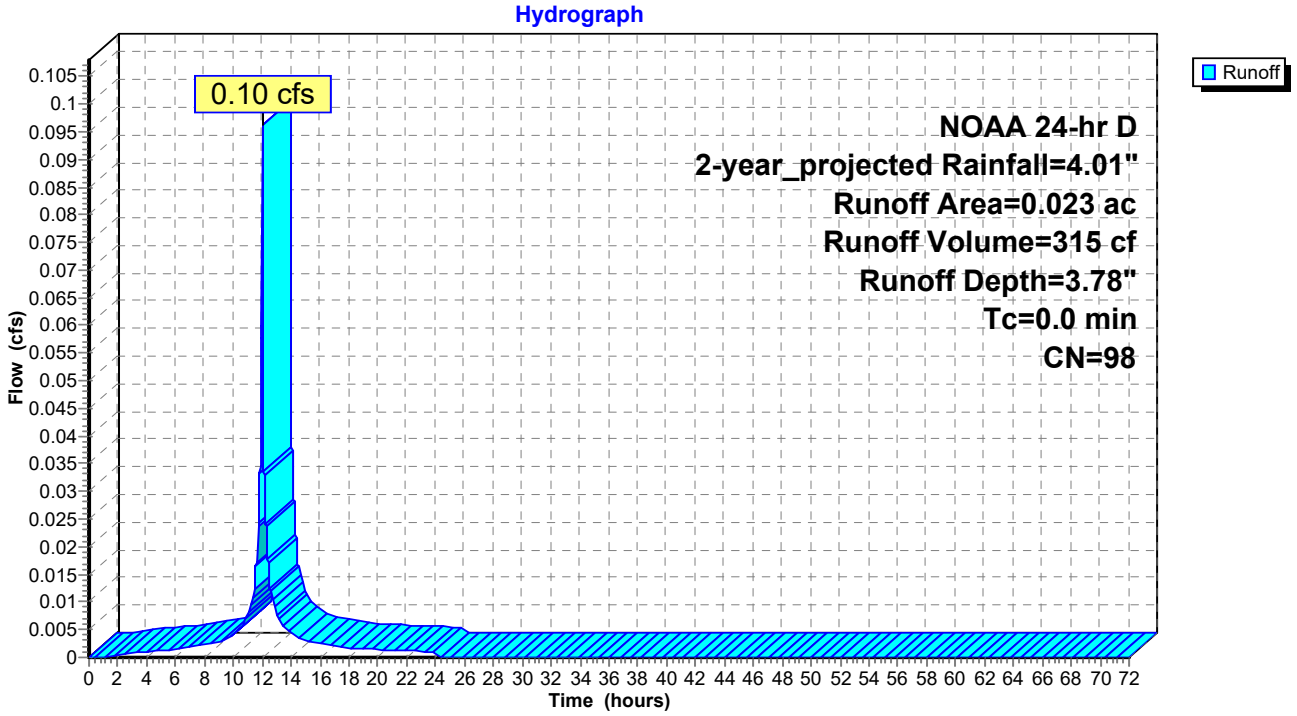
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.10 cfs @ 12.09 hrs, Volume= 315 cf, Depth= 3.78"
Routed to Pond 38P : Basin 3 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.023	98	direct rainfall
	0.023	98	100.00% Impervious Area

Subcatchment 55S: Direct Rainfall Basin 3 Forebay



Summary for Subcatchment 56S: Direct Rainfall Basin 1B Forebay

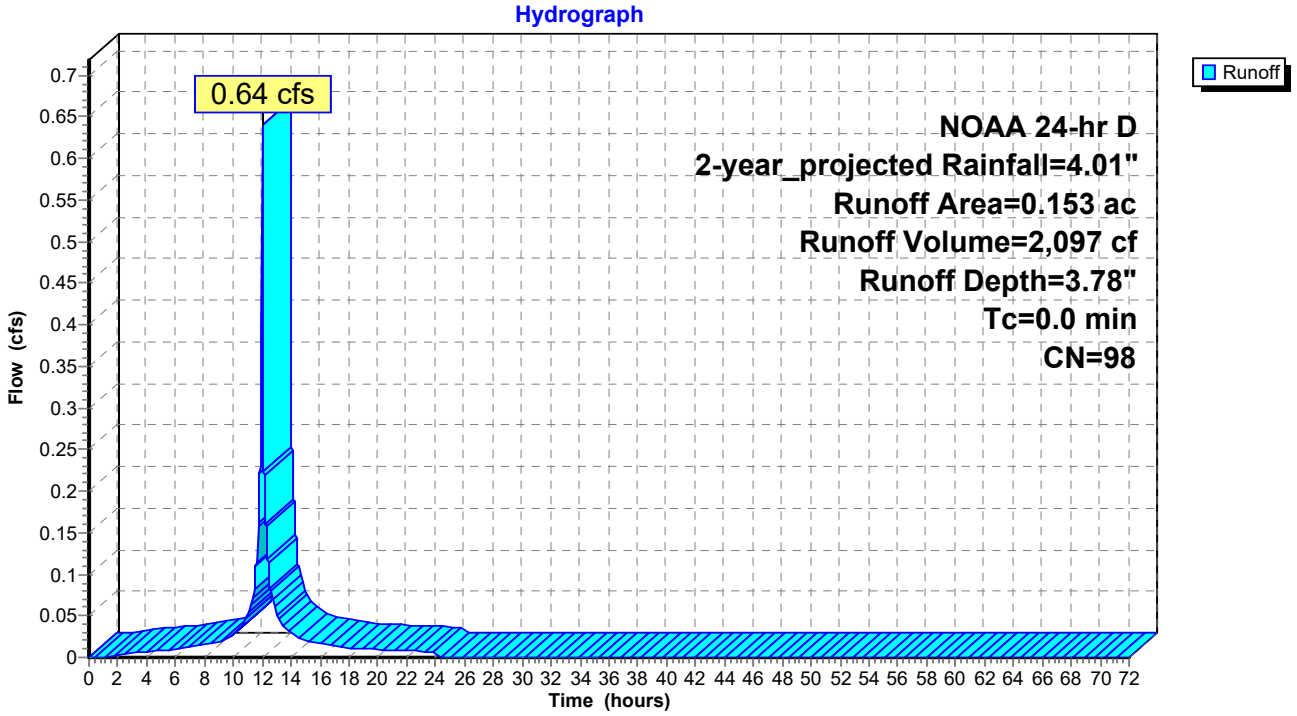
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 2,097 cf, Depth= 3.78"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.153	98	direct rainfall
	0.153	98	100.00% Impervious Area

Subcatchment 56S: Direct Rainfall Basin 1B Forebay



Summary for Subcatchment 57S: Direct Rainfall Basin 4 Forebay

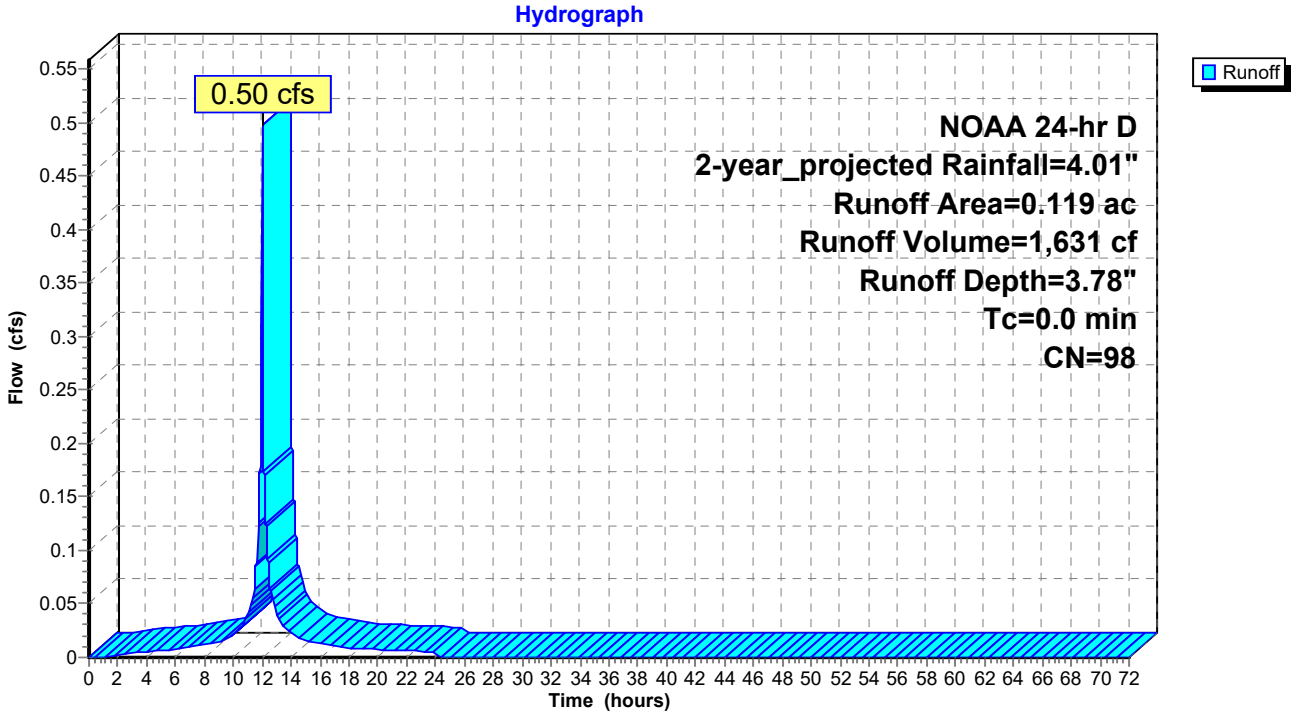
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 1,631 cf, Depth= 3.78"
Routed to Pond 39P : Basin 4 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.119	98	direct rainfall
	0.119	98	100.00% Impervious Area

Subcatchment 57S: Direct Rainfall Basin 4 Forebay



Summary for Subcatchment 58S: Direct forest undeveloped runoff to basin

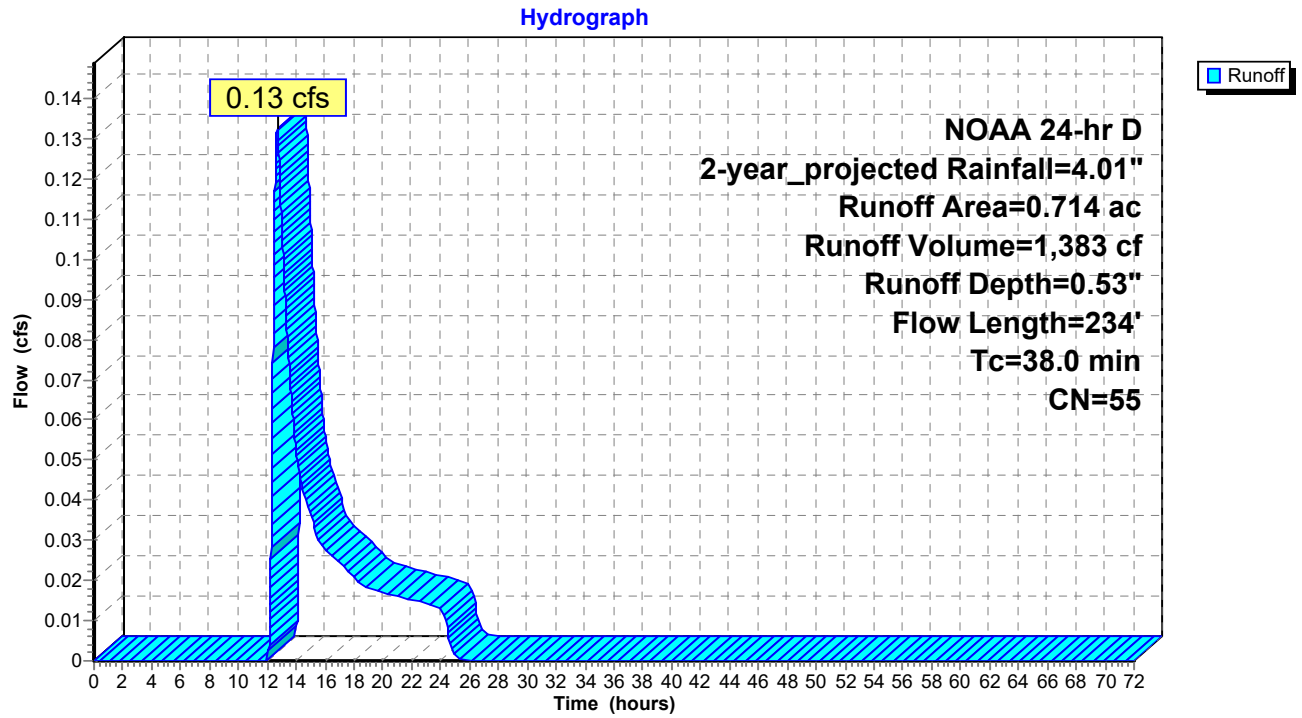
Runoff = 0.13 cfs @ 12.70 hrs, Volume= 1,383 cf, Depth= 0.53"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

Area (ac)	CN	Description
0.714	55	Woods, Good, HSG B
0.714	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
33.4	100	0.0200	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 4.01"
4.6	134	0.0370	0.48		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
38.0	234	Total			

Subcatchment 58S: Direct forest undeveloped runoff to basin



Summary for Subcatchment 59S: Direct Rainfall Basin 4 Infiltration

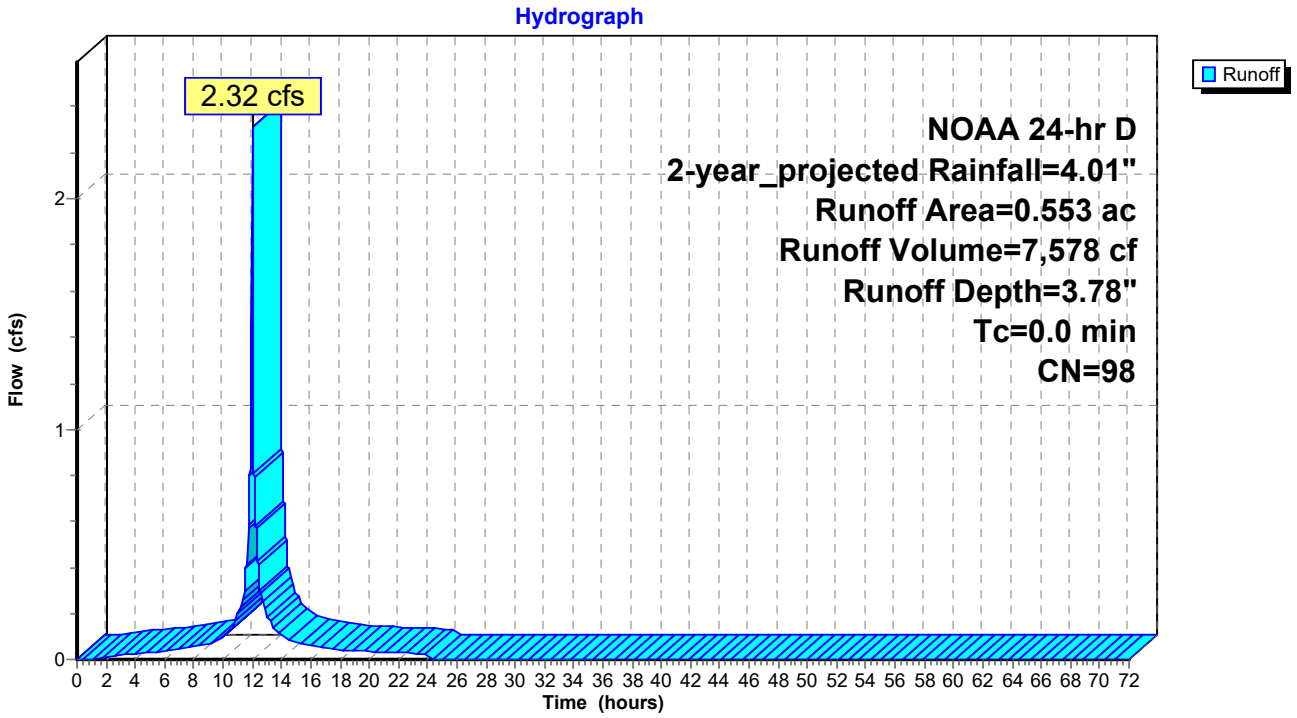
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.32 cfs @ 12.09 hrs, Volume= 7,578 cf, Depth= 3.78"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.553	98	direct rainfall
	0.553	98	100.00% Impervious Area

Subcatchment 59S: Direct Rainfall Basin 4 Infiltration



Summary for Subcatchment 62S: Direct Rainfall Basin 3 Infiltration

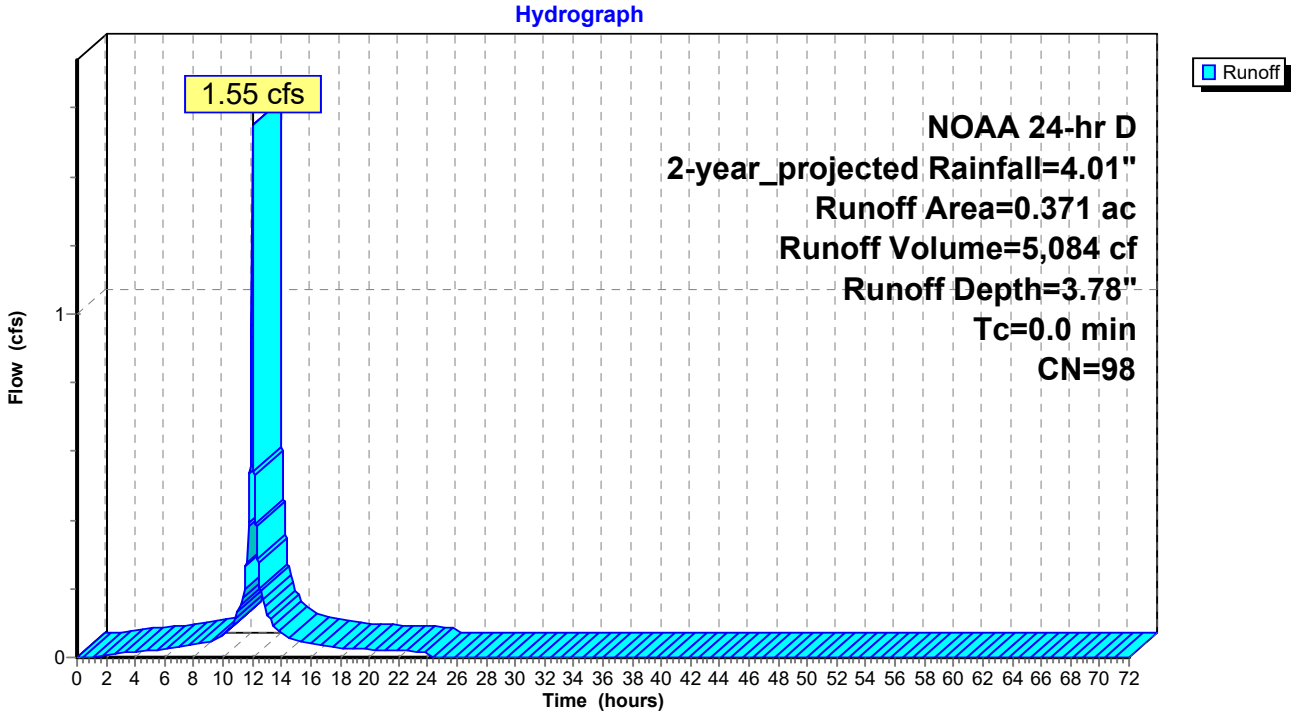
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.55 cfs @ 12.09 hrs, Volume= 5,084 cf, Depth= 3.78"
Routed to Pond 61P : Basin 3 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.371	98	
	0.371	98	100.00% Impervious Area

Subcatchment 62S: Direct Rainfall Basin 3 Infiltration



Summary for Subcatchment 65S: Direct Rainfall Basin 3 Bioretention

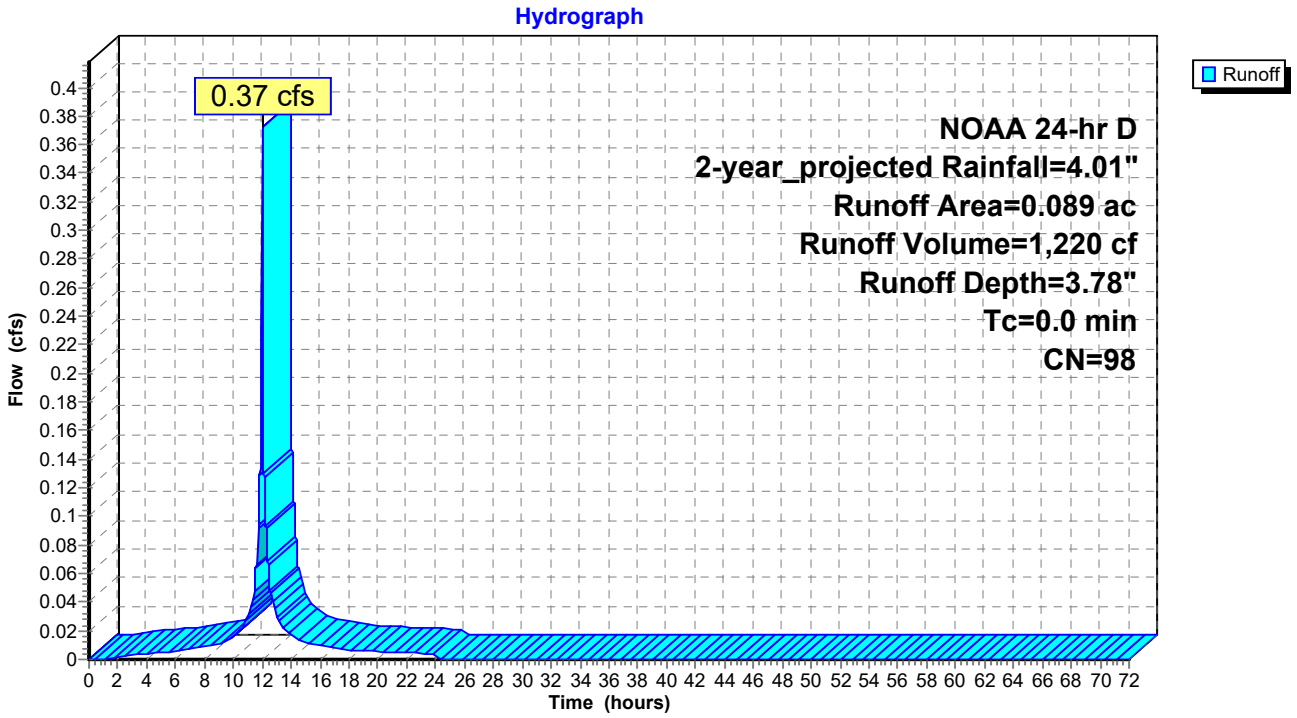
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 1,220 cf, Depth= 3.78"
Routed to Pond 60P : Basin 3 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.089	98	
	0.089	98	100.00% Impervious Area

Subcatchment 65S: Direct Rainfall Basin 3 Bioretention



Summary for Subcatchment 69S: Direct Rainfall Basin 2B Forebay

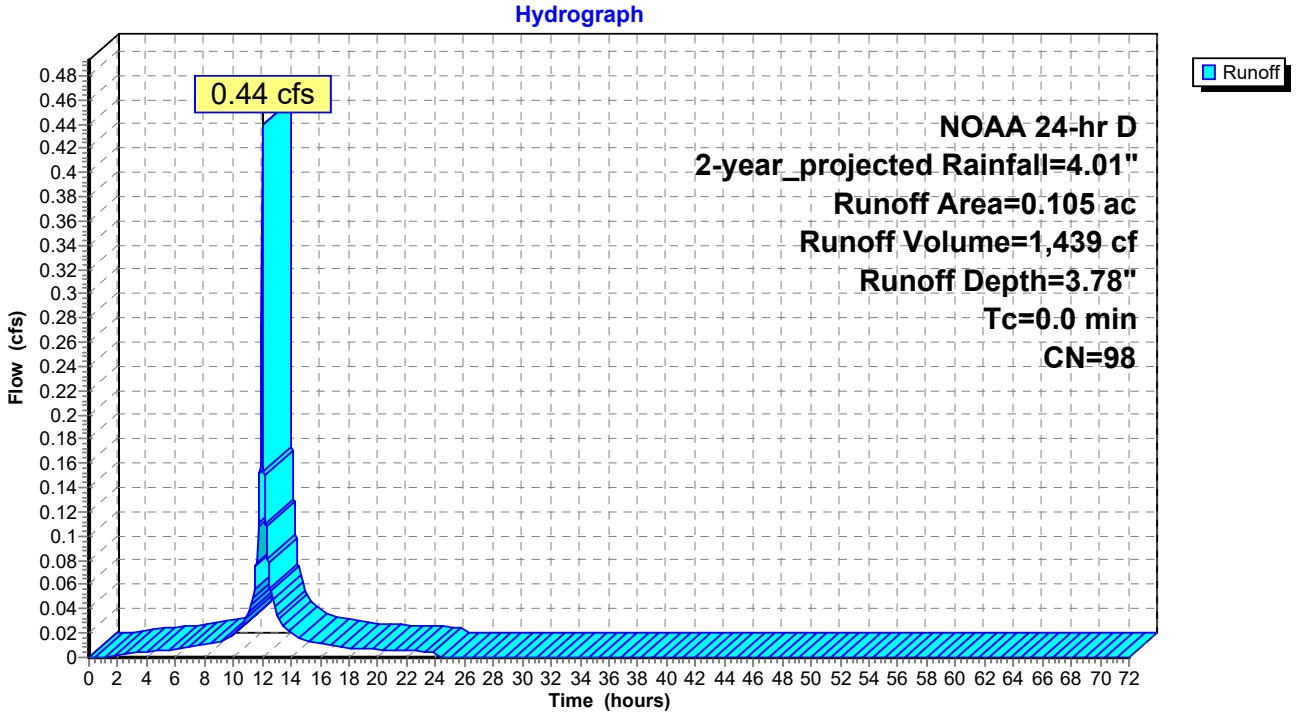
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 1,439 cf, Depth= 3.78"
Routed to Pond 65P : Basin 2B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.105	98	direct rainfall
	0.105	98	100.00% Impervious Area

Subcatchment 69S: Direct Rainfall Basin 2B Forebay



Summary for Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin

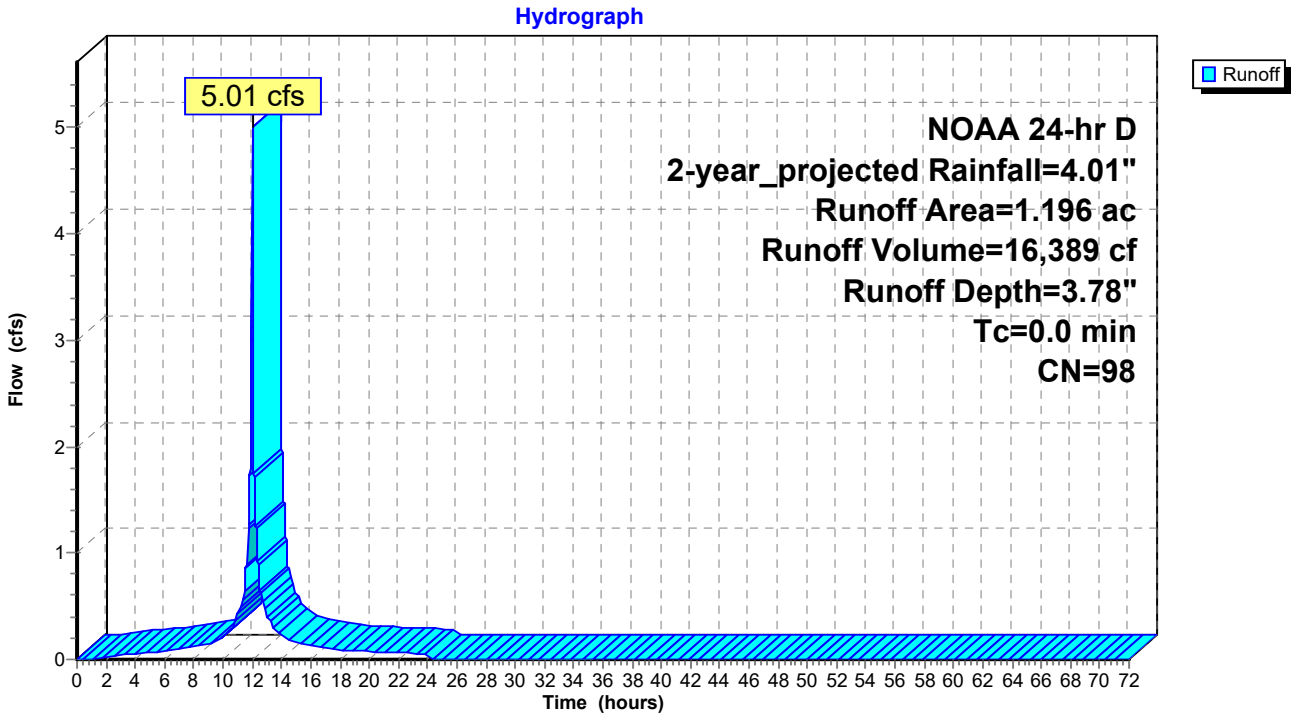
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 5.01 cfs @ 12.09 hrs, Volume= 16,389 cf, Depth= 3.78"
Routed to Pond 66P : Basin 2B Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	1.196	98	direct rainfall
	1.196	98	100.00% Impervious Area

Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin



Summary for Subcatchment 71S: Direct Rainfall to Bioretention

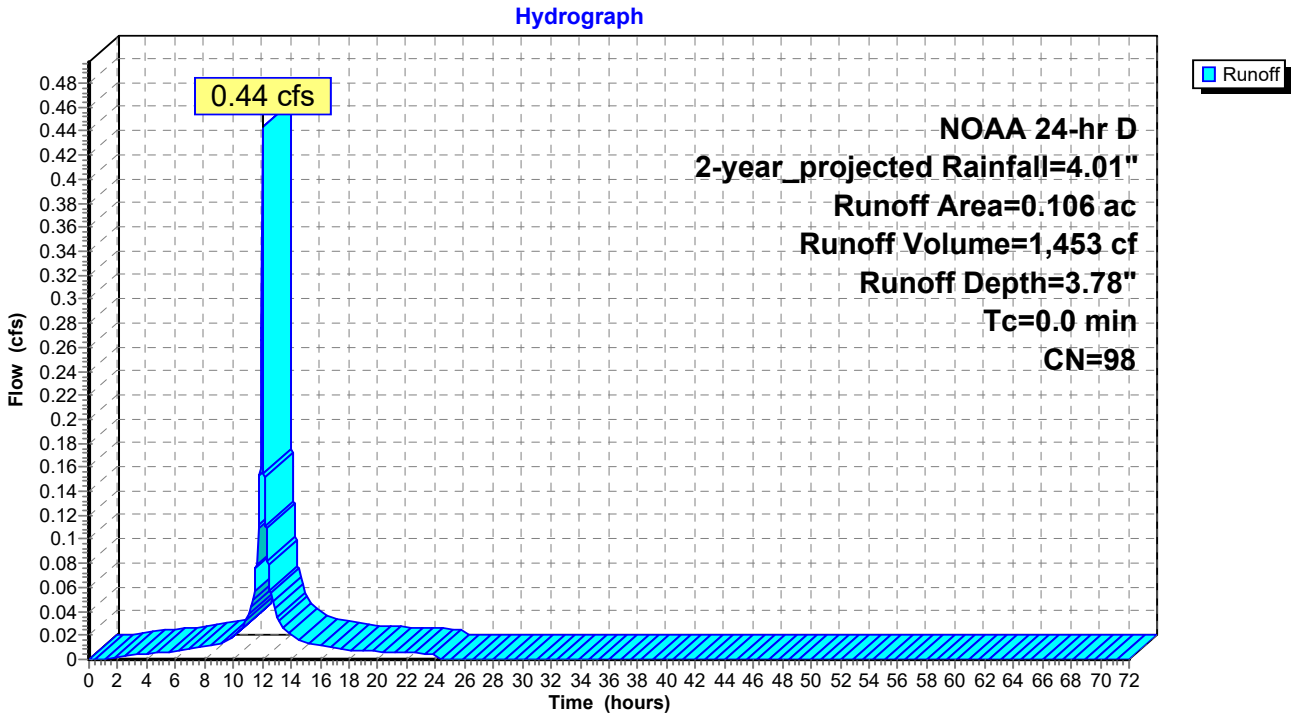
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 1,453 cf, Depth= 3.78"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.106	98	direct rainfall to bioretention
	0.106	98	100.00% Impervious Area

Subcatchment 71S: Direct Rainfall to Bioretention



Summary for Subcatchment 74S: Direct forest runoff to infiltration basin

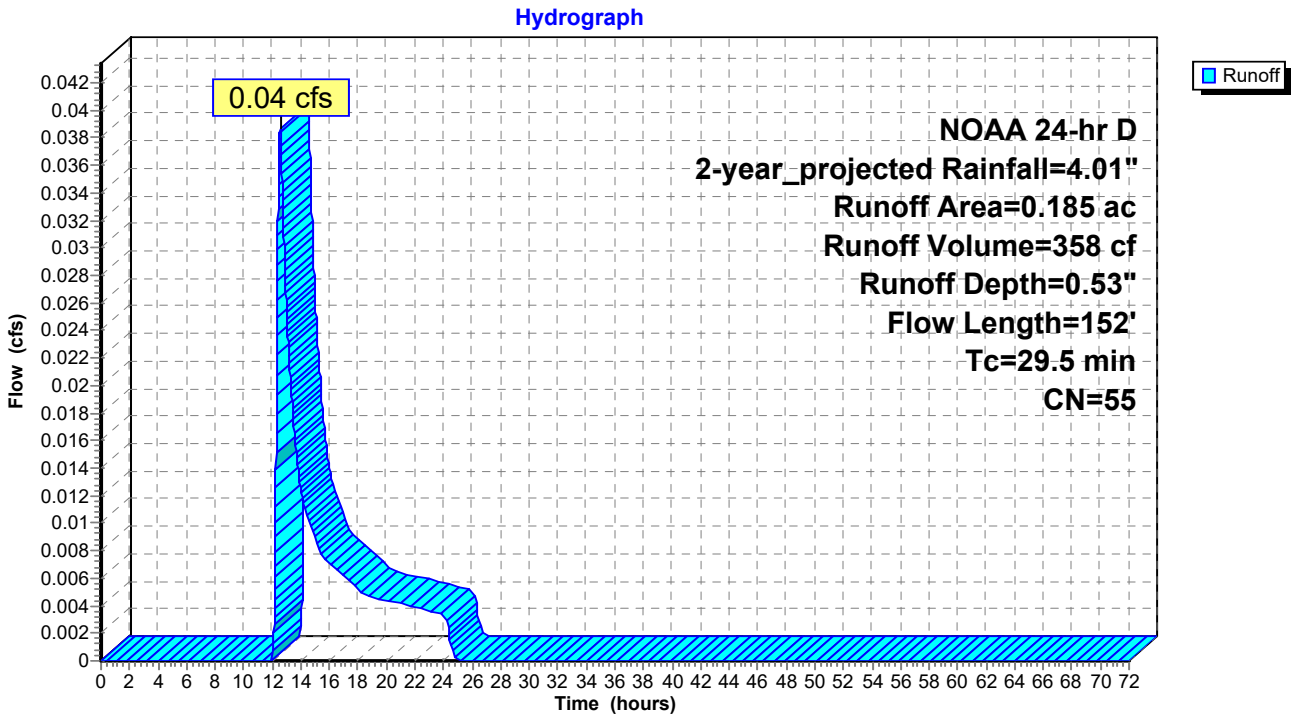
Runoff = 0.04 cfs @ 12.55 hrs, Volume= 358 cf, Depth= 0.53"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

Area (ac)	CN	Description
0.185	55	Woods, Good, HSG B
0.185	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.4	100	0.0300	0.06		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 4.01"
1.1	52	0.1000	0.79		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
29.5	152	Total			

Subcatchment 74S: Direct forest runoff to infiltration basin



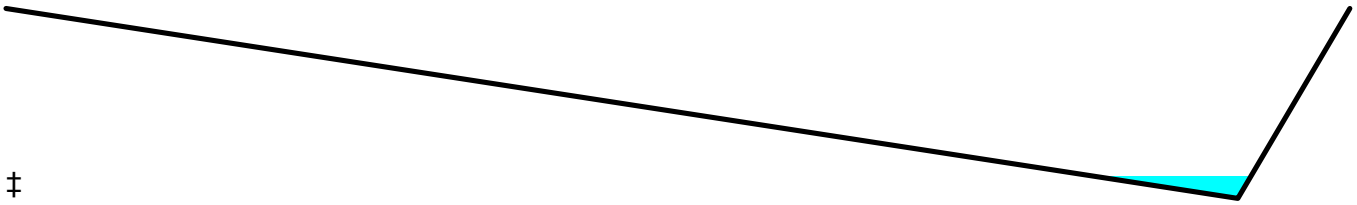
Summary for Reach 29R: DA1A East Swale

Inflow Area = 182,579 sf, 6.17% Impervious, Inflow Depth = 0.28" for 2-year_projected event
Inflow = 0.73 cfs @ 12.23 hrs, Volume= 4,214 cf
Outflow = 0.38 cfs @ 13.05 hrs, Volume= 4,214 cf, Atten= 48%, Lag= 49.2 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.38 fps, Min. Travel Time= 36.6 min
Avg. Velocity = 0.15 fps, Avg. Travel Time= 91.6 min

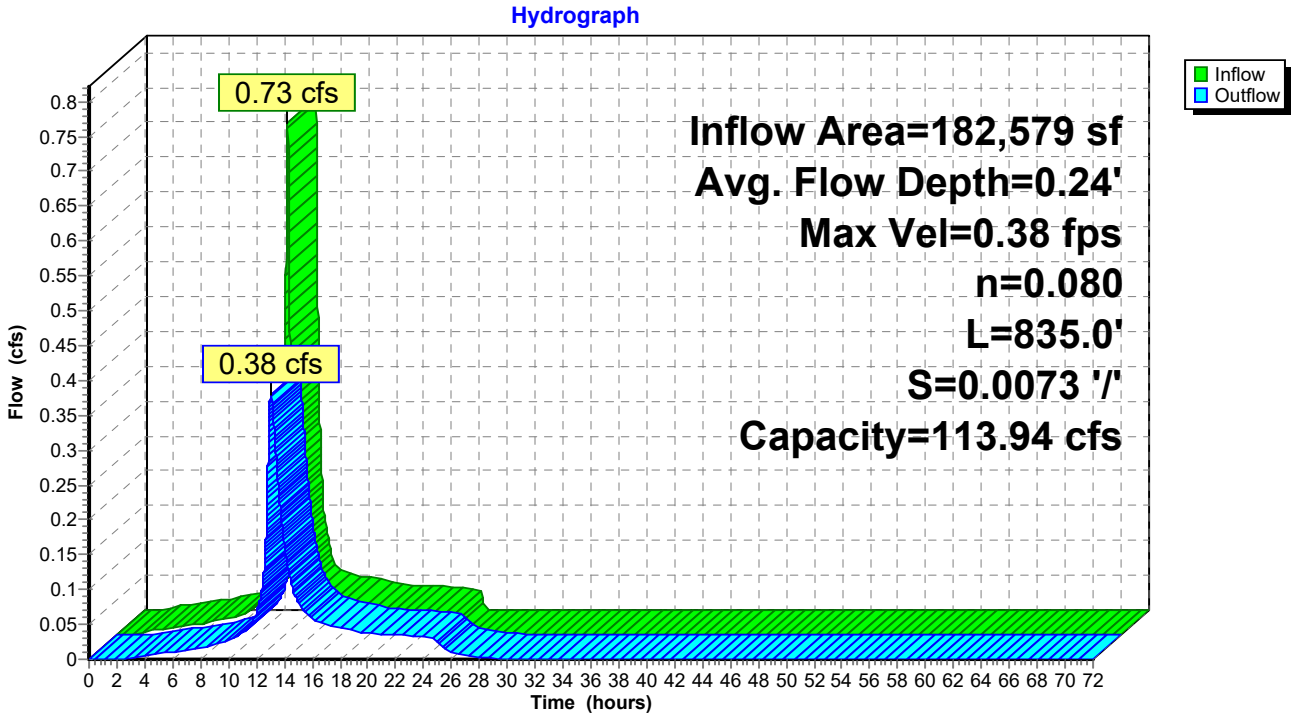
Peak Storage= 833 cf @ 12.44 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 8.47'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 113.94 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 835.0' Slope= 0.0073 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 29R: DA1A East Swale



Summary for Reach 30R: DA1A West Swale

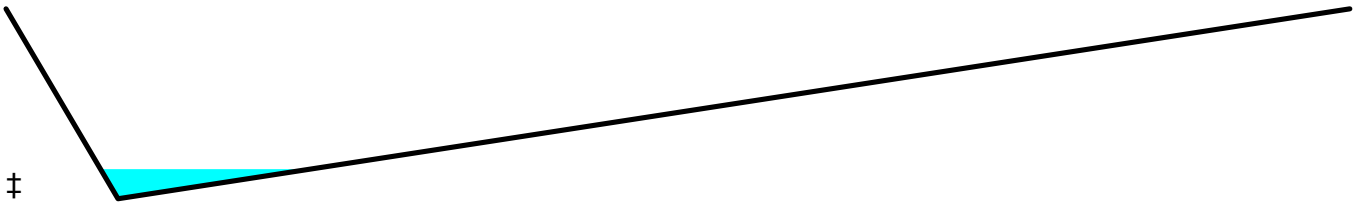
[62] Hint: Exceeded Reach 41R OUTLET depth by 0.15' @ 12.38 hrs

Inflow Area = 324,304 sf, 6.25% Impervious, Inflow Depth = 0.28" for 2-year_projected event
Inflow = 1.02 cfs @ 12.24 hrs, Volume= 7,565 cf
Outflow = 0.58 cfs @ 13.00 hrs, Volume= 7,565 cf, Atten= 43%, Lag= 45.3 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.33 fps, Min. Travel Time= 32.5 min
Avg. Velocity = 0.13 fps, Avg. Travel Time= 85.8 min

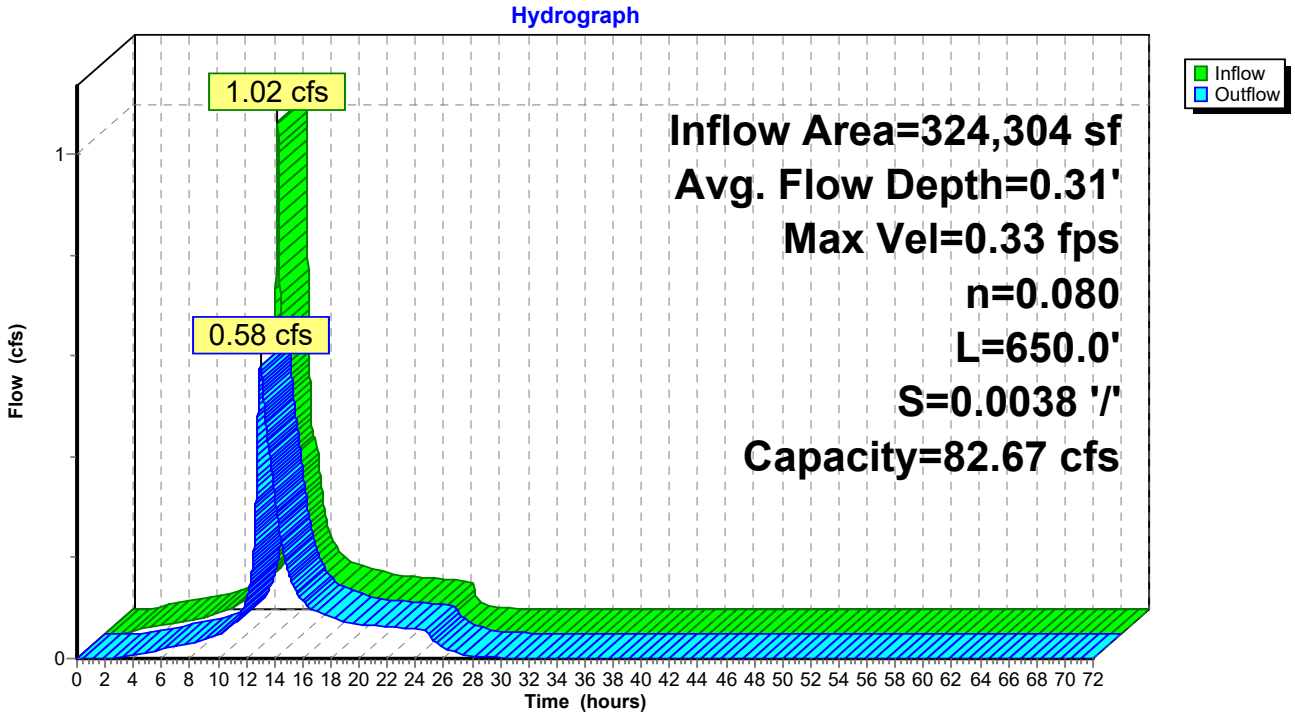
Peak Storage= 1,137 cf @ 12.46 hrs
Average Depth at Peak Storage= 0.31' , Surface Width= 11.22'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 82.67 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 650.0' Slope= 0.0038 '/'
Inlet Invert= 162.50', Outlet Invert= 160.00'



‡

Reach 30R: DA1A West Swale



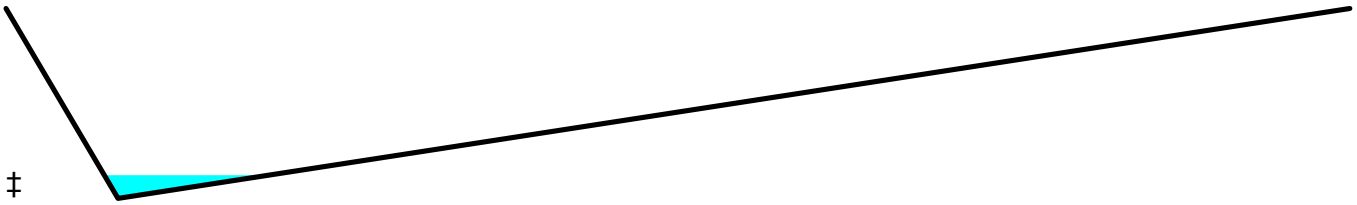
Summary for Reach 31R: DA2B East Swale

Inflow Area = 195,980 sf, 6.17% Impervious, Inflow Depth = 0.28" for 2-year_projected event
Inflow = 0.77 cfs @ 12.24 hrs, Volume= 4,523 cf
Outflow = 0.44 cfs @ 12.92 hrs, Volume= 4,523 cf, Atten= 42%, Lag= 41.0 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.41 fps, Min. Travel Time= 29.6 min
Avg. Velocity = 0.17 fps, Avg. Travel Time= 73.1 min

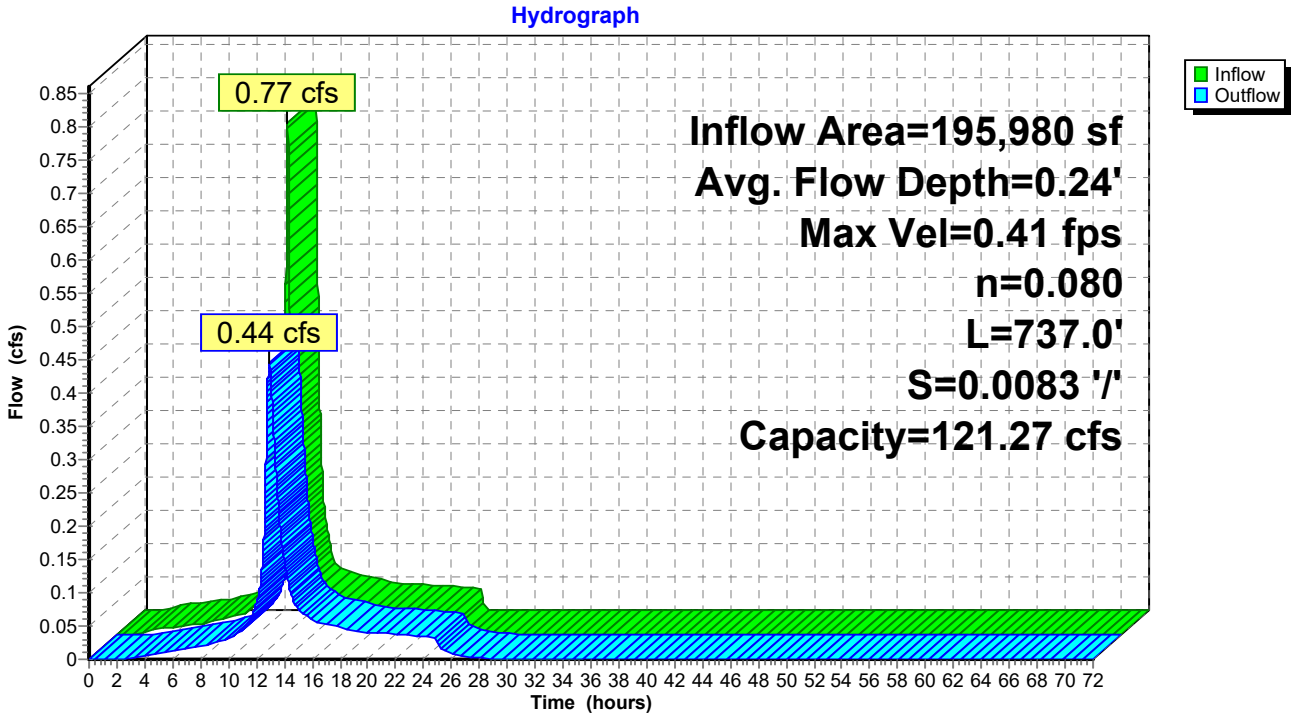
Peak Storage= 790 cf @ 12.43 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 8.78'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 121.27 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 737.0' Slope= 0.0083 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 31R: DA2B East Swale



Summary for Reach 33R: DA2B West Swale

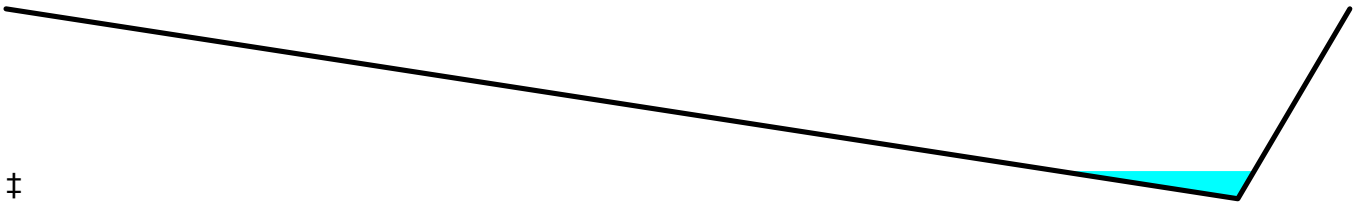
[61] Hint: Exceeded Reach 45R outlet invert by 0.29' @ 12.39 hrs

Inflow Area = 182,604 sf, 6.25% Impervious, Inflow Depth = 0.28" for 2-year_projected event
Inflow = 0.72 cfs @ 12.24 hrs, Volume= 4,262 cf
Outflow = 0.49 cfs @ 12.72 hrs, Volume= 4,262 cf, Atten= 32%, Lag= 29.3 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.32 fps, Min. Travel Time= 20.0 min
Avg. Velocity = 0.13 fps, Avg. Travel Time= 49.5 min

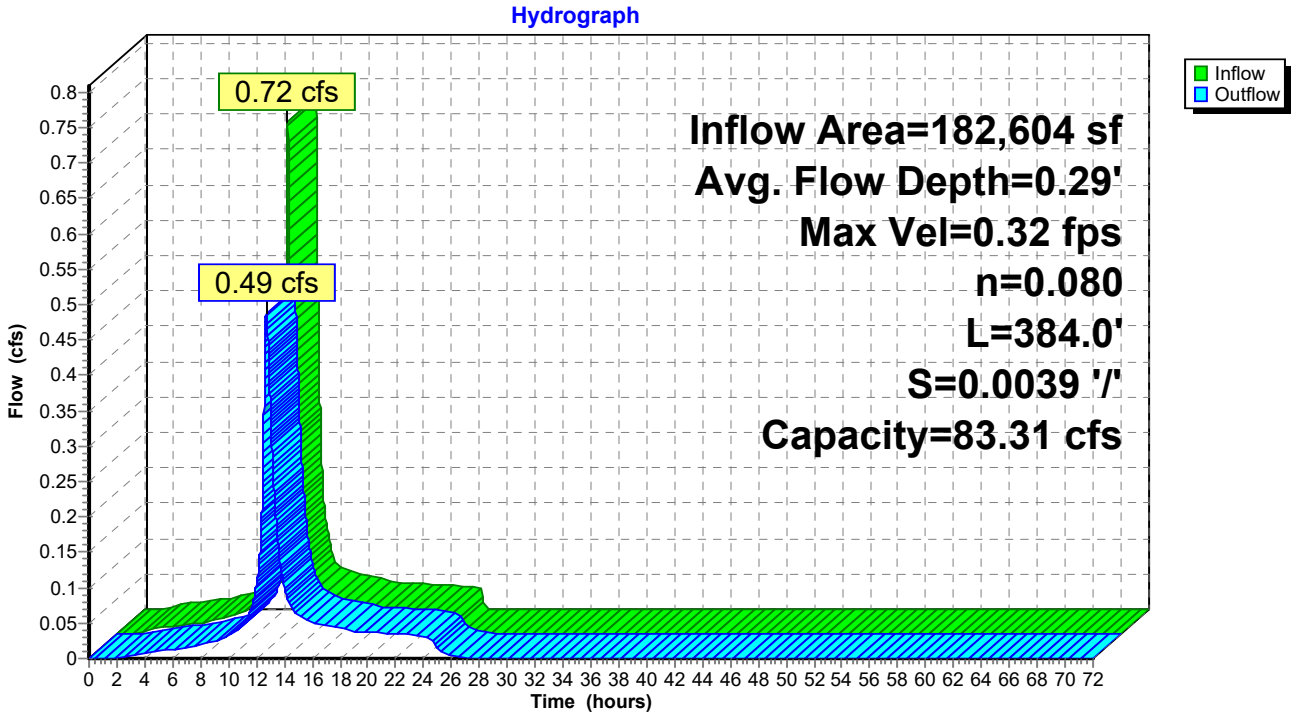
Peak Storage= 585 cf @ 12.39 hrs
Average Depth at Peak Storage= 0.29' , Surface Width= 10.47'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 83.31 cfs

0.00' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 384.0' Slope= 0.0039 '/'
Inlet Invert= 162.50', Outlet Invert= 161.00'



‡

Reach 33R: DA2B West Swale



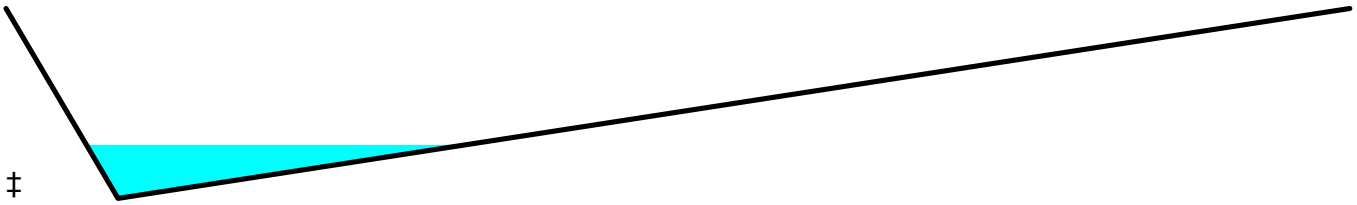
Summary for Reach 34R: DA4 West Swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 2.50" for 2-year_projected event
Inflow = 4.42 cfs @ 12.10 hrs, Volume= 14,551 cf
Outflow = 2.95 cfs @ 12.32 hrs, Volume= 14,551 cf, Atten= 33%, Lag= 13.0 min
Routed to Reach 43R : DA4 Roadside swale

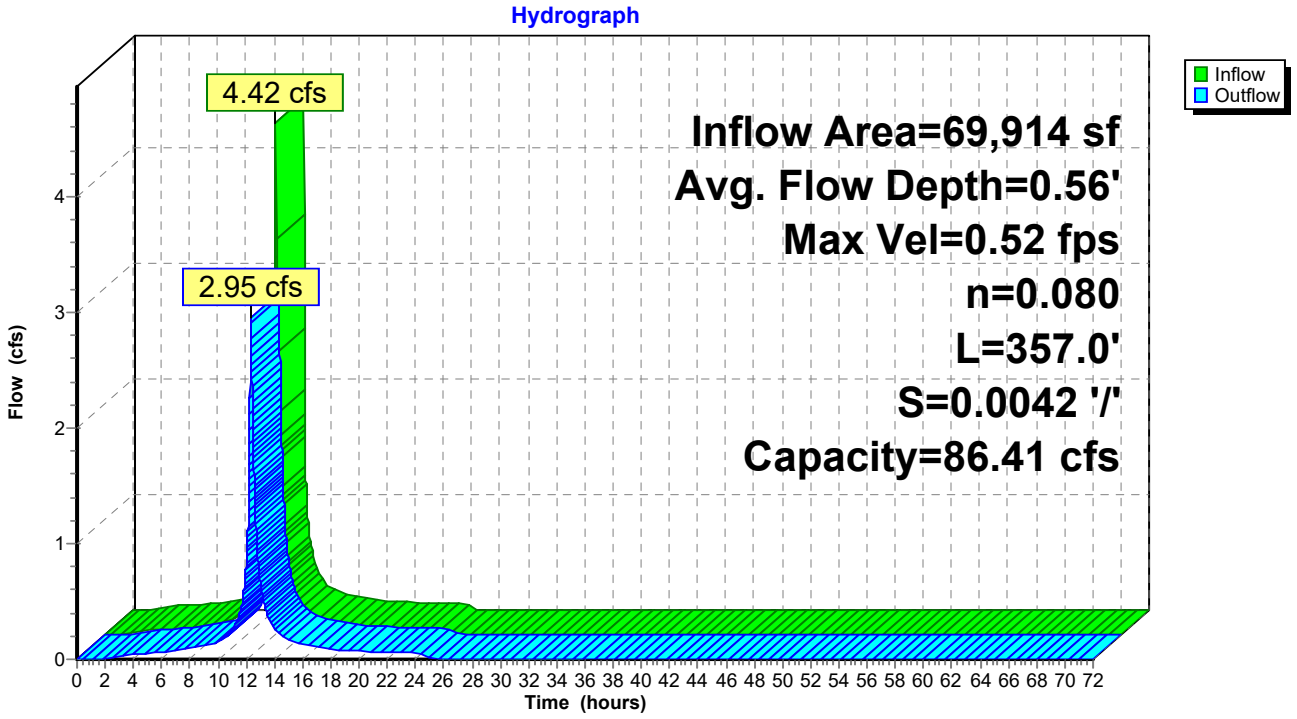
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.52 fps, Min. Travel Time= 11.5 min
Avg. Velocity = 0.17 fps, Avg. Travel Time= 34.5 min

Peak Storage= 2,046 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.56' , Surface Width= 20.31'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 86.41 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 357.0' Slope= 0.0042 '/'
Inlet Invert= 163.50', Outlet Invert= 162.00'



‡



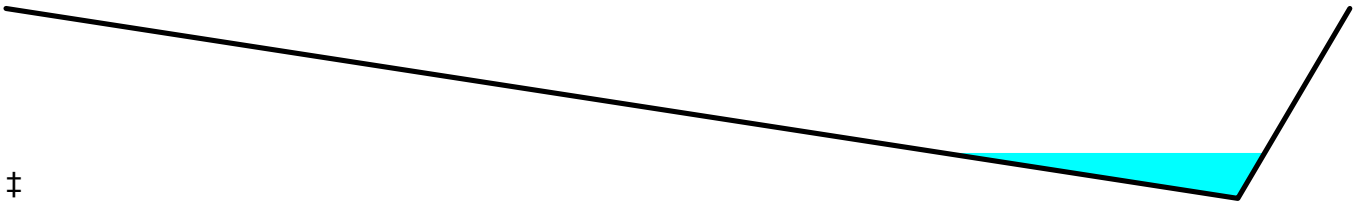
Summary for Reach 35R: DA2A West Swale

Inflow Area = 55,016 sf, 69.91% Impervious, Inflow Depth = 2.65" for 2-year_projected event
Inflow = 3.69 cfs @ 12.10 hrs, Volume= 12,165 cf
Outflow = 2.21 cfs @ 12.38 hrs, Volume= 12,165 cf, Atten= 40%, Lag= 17.0 min
Routed to Pond 26P : Basin 2A Forebay

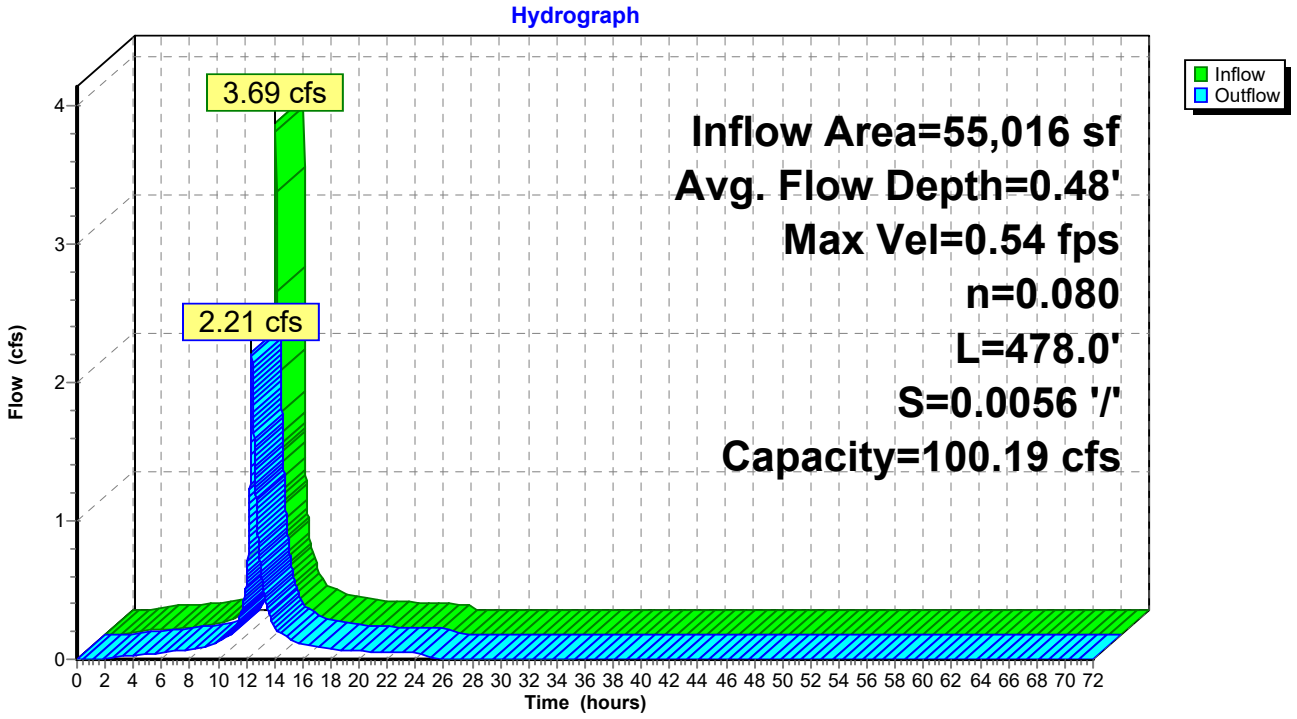
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.54 fps, Min. Travel Time= 14.9 min
Avg. Velocity = 0.18 fps, Avg. Travel Time= 44.0 min

Peak Storage= 1,973 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.48' , Surface Width= 17.24'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 100.19 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 478.0' Slope= 0.0056 '/'
Inlet Invert= 162.20', Outlet Invert= 159.50'



‡



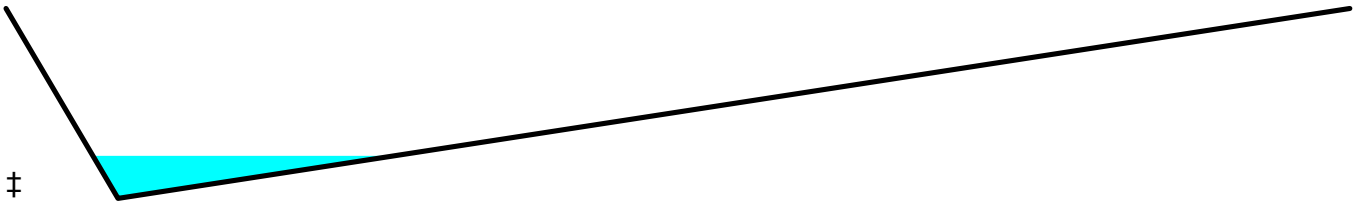
Summary for Reach 36R: DA2A East Swale

Inflow Area = 51,183 sf, 71.06% Impervious, Inflow Depth = 2.70" for 2-year_projected event
Inflow = 3.45 cfs @ 12.11 hrs, Volume= 11,501 cf
Outflow = 3.21 cfs @ 12.17 hrs, Volume= 11,501 cf, Atten= 7%, Lag= 3.8 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.89 fps, Min. Travel Time= 2.7 min
Avg. Velocity = 0.34 fps, Avg. Travel Time= 7.2 min

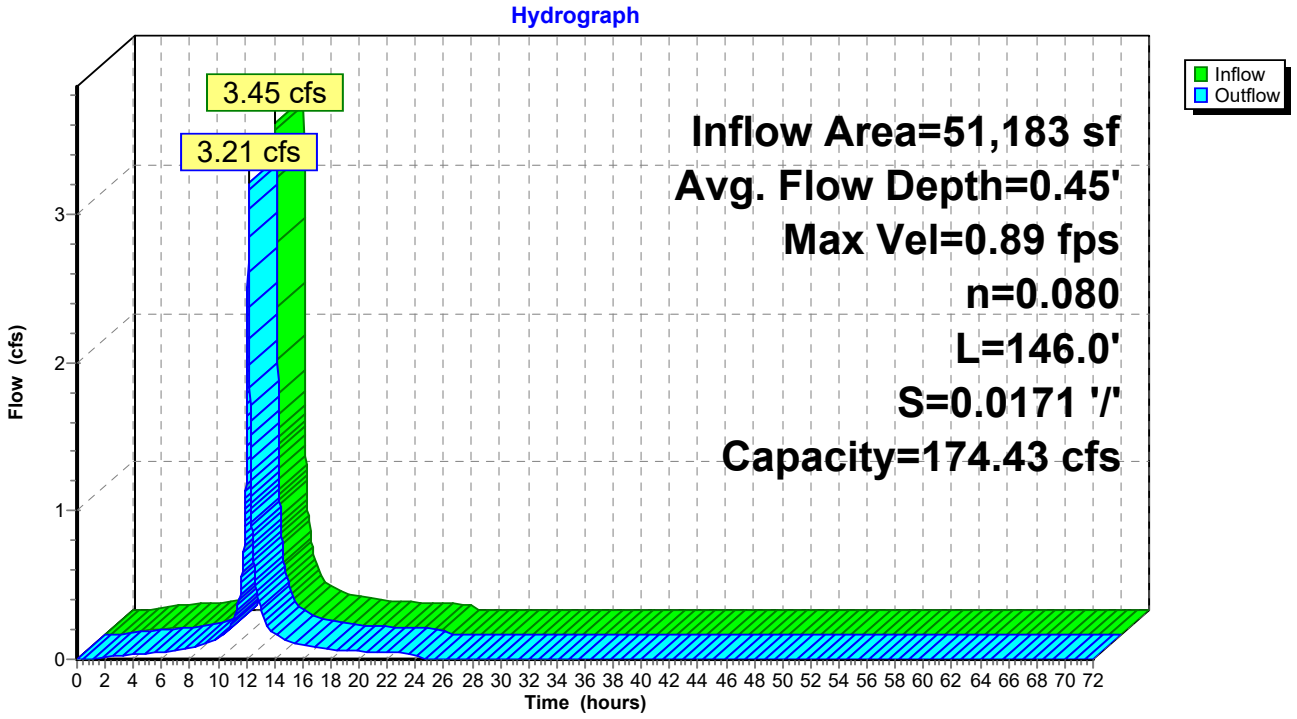
Peak Storage= 526 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.45' , Surface Width= 16.11'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 174.43 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 146.0' Slope= 0.0171 '/'
Inlet Invert= 162.00', Outlet Invert= 159.50'



‡

Reach 36R: DA2A East Swale



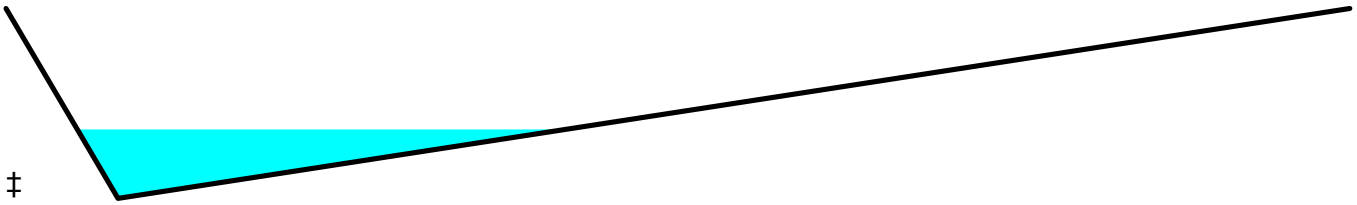
Summary for Reach 37R: DA1B Swale

Inflow Area = 104,152 sf, 91.22% Impervious, Inflow Depth = 3.45" for 2-year_projected event
Inflow = 9.04 cfs @ 12.10 hrs, Volume= 29,923 cf
Outflow = 6.44 cfs @ 12.30 hrs, Volume= 29,923 cf, Atten= 29%, Lag= 11.5 min
Routed to Pond 18P : Basin 1B Forebay

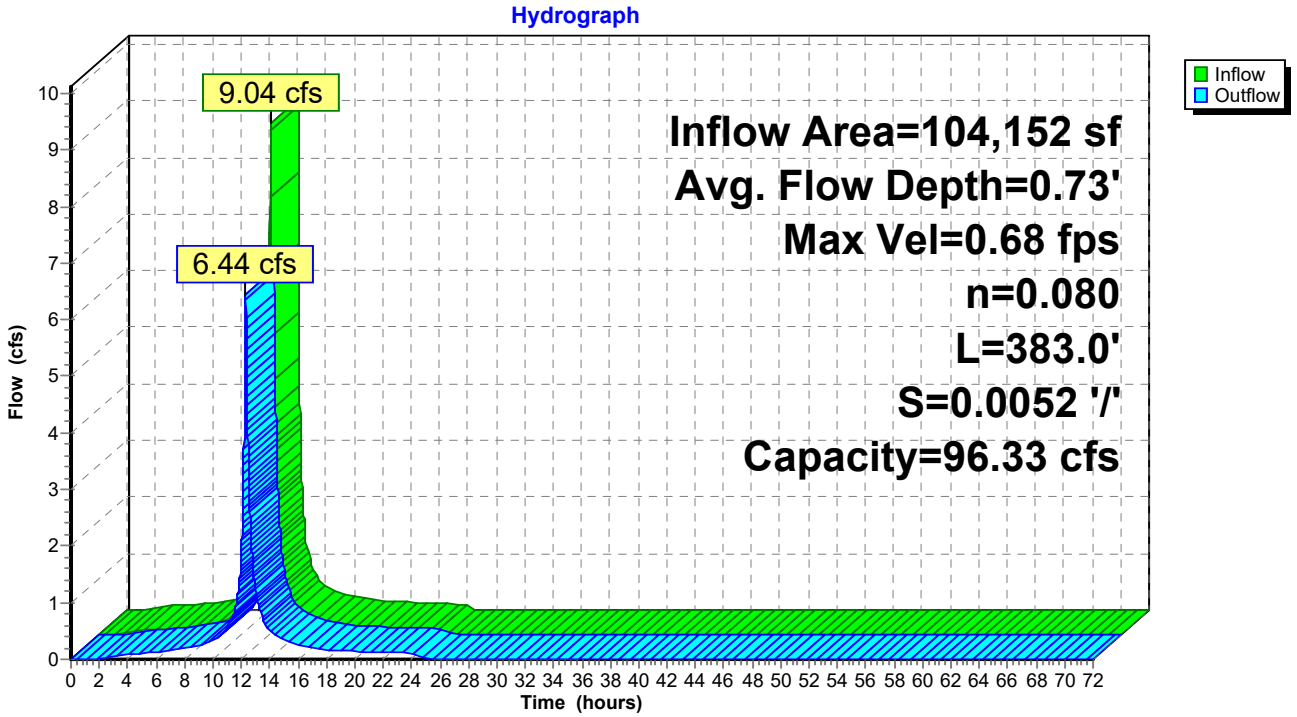
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.68 fps, Min. Travel Time= 9.4 min
Avg. Velocity = 0.22 fps, Avg. Travel Time= 28.8 min

Peak Storage= 3,631 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.73' , Surface Width= 26.12'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 96.33 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 383.0' Slope= 0.0052 '/'
Inlet Invert= 162.00', Outlet Invert= 160.00'



‡



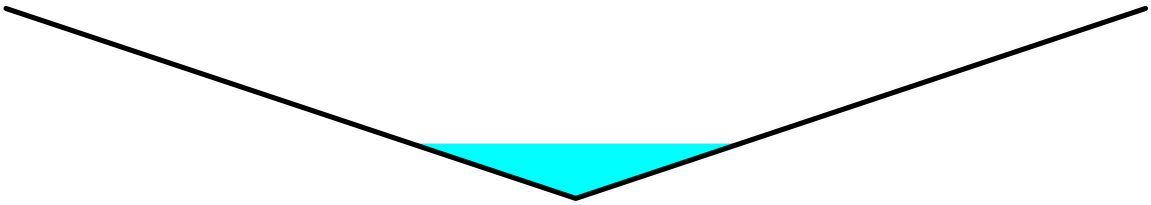
Summary for Reach 38R: DA3 Swale

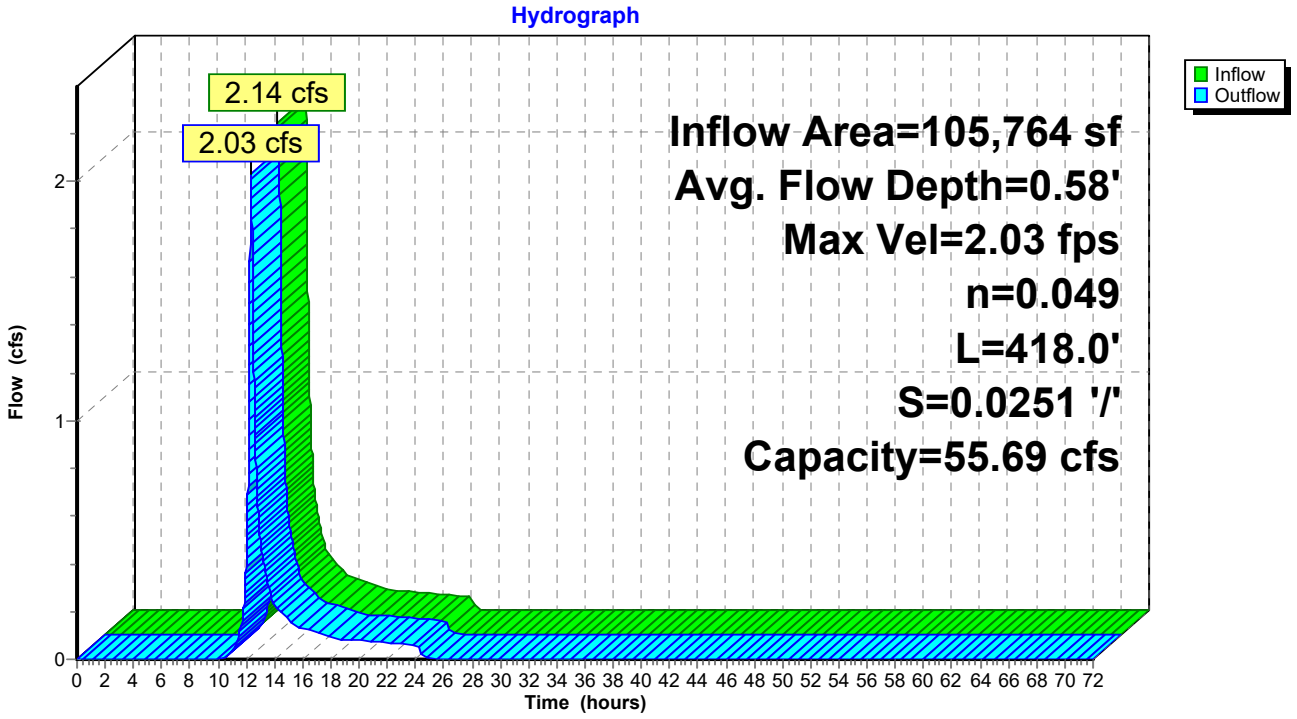
Inflow Area = 105,764 sf, 0.00% Impervious, Inflow Depth = 1.05" for 2-year_projected event
Inflow = 2.14 cfs @ 12.23 hrs, Volume= 9,219 cf
Outflow = 2.03 cfs @ 12.33 hrs, Volume= 9,219 cf, Atten= 5%, Lag= 6.2 min
Routed to Pond 38P : Basin 3 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.03 fps, Min. Travel Time= 3.4 min
Avg. Velocity = 0.89 fps, Avg. Travel Time= 7.8 min

Peak Storage= 419 cf @ 12.27 hrs
Average Depth at Peak Storage= 0.58' , Surface Width= 3.47'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 55.69 cfs

0.00' x 2.00' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 418.0' Slope= 0.0251 '/'
Inlet Invert= 158.50', Outlet Invert= 148.00'





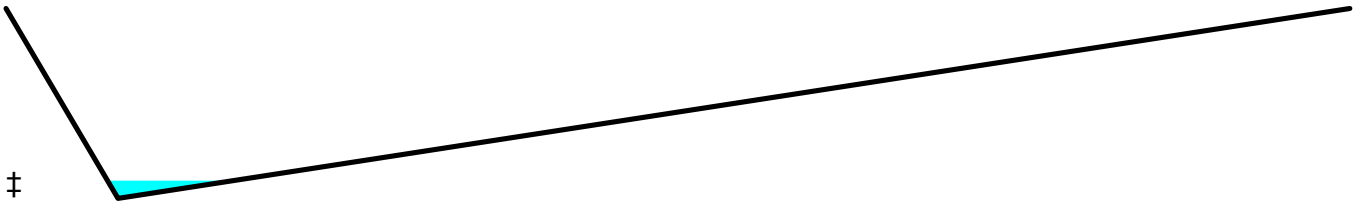
Summary for Reach 39R: DA 1A Central Swale A

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.28" for 2-year_projected event
Inflow = 0.31 cfs @ 12.21 hrs, Volume= 1,724 cf
Outflow = 0.17 cfs @ 12.90 hrs, Volume= 1,724 cf, Atten= 46%, Lag= 41.4 min
Routed to Reach 41R : DA 1A Central Swale B

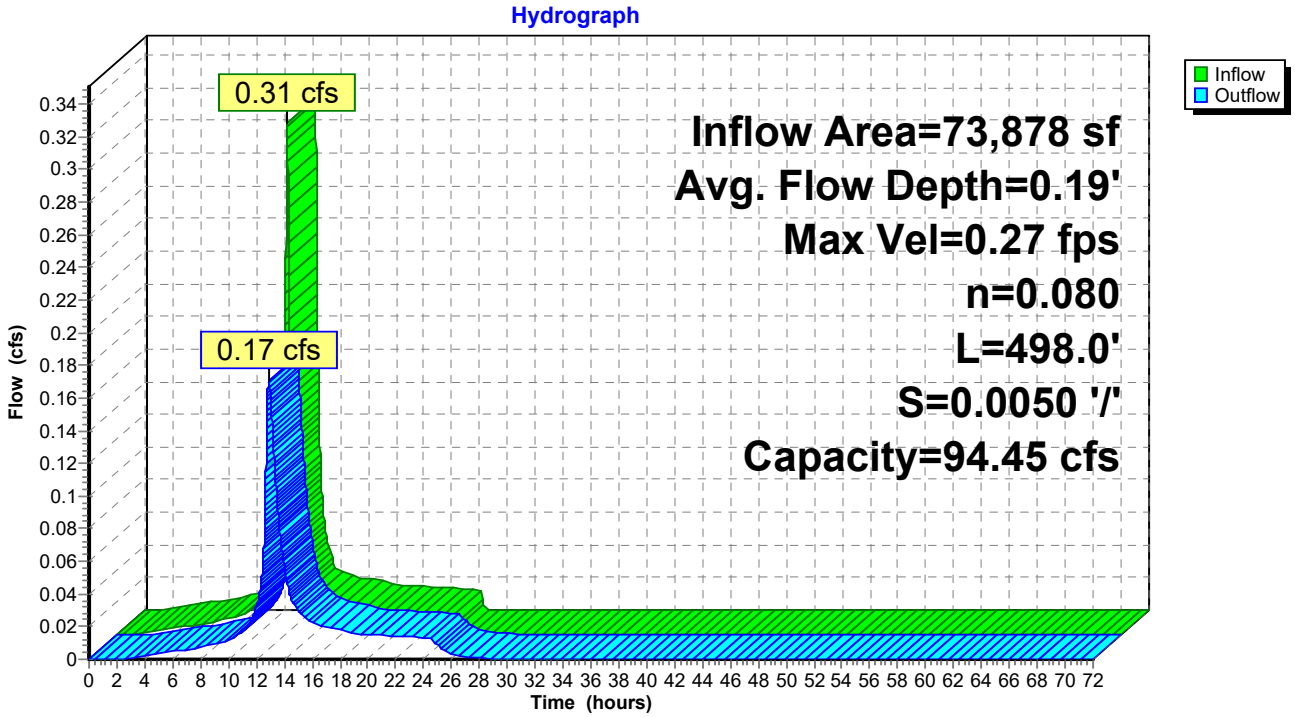
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.27 fps, Min. Travel Time= 30.6 min
Avg. Velocity = 0.12 fps, Avg. Travel Time= 71.1 min

Peak Storage= 314 cf @ 12.39 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 6.73'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 94.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 498.0' Slope= 0.0050 '/'
Inlet Invert= 171.00', Outlet Invert= 168.50'



‡



Summary for Reach 41R: DA 1A Central Swale B

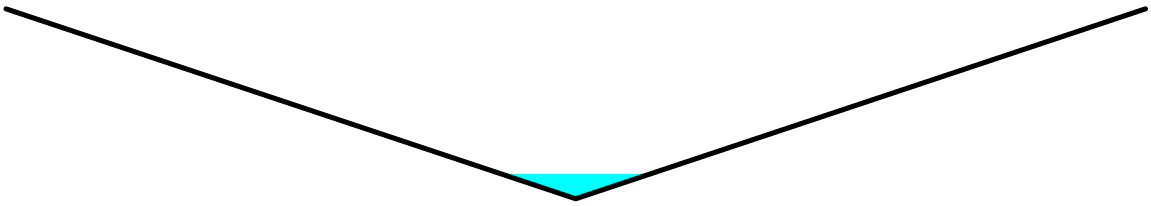
[62] Hint: Exceeded Reach 39R OUTLET depth by 0.11' @ 13.03 hrs

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.28" for 2-year_projected event
Inflow = 0.17 cfs @ 12.90 hrs, Volume= 1,724 cf
Outflow = 0.17 cfs @ 13.02 hrs, Volume= 1,724 cf, Atten= 1%, Lag= 7.2 min
Routed to Reach 30R : DA1A West Swale

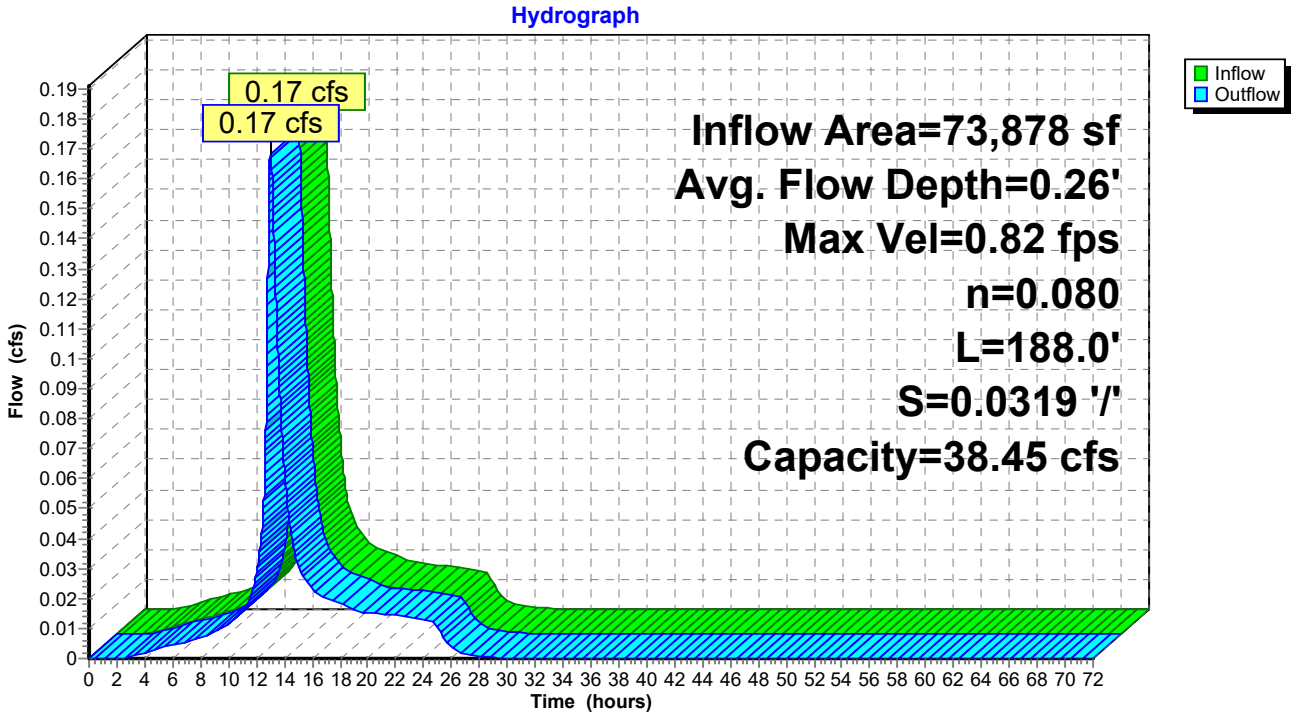
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.82 fps, Min. Travel Time= 3.8 min
Avg. Velocity = 0.36 fps, Avg. Travel Time= 8.8 min

Peak Storage= 38 cf @ 12.96 hrs
Average Depth at Peak Storage= 0.26' , Surface Width= 1.56'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 38.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 188.0' Slope= 0.0319 '/'
Inlet Invert= 168.50', Outlet Invert= 162.50'



Reach 41R: DA 1A Central Swale B



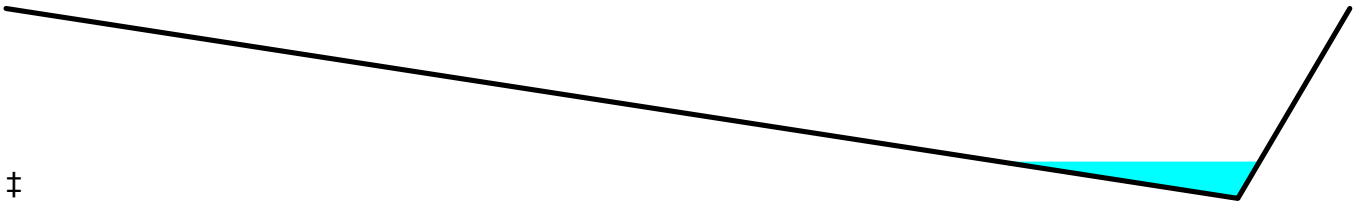
Summary for Reach 42R: DA4 East Swale

Inflow Area = 37,810 sf, 57.37% Impervious, Inflow Depth = 2.19" for 2-year_projected event
Inflow = 2.06 cfs @ 12.10 hrs, Volume= 6,888 cf
Outflow = 1.93 cfs @ 12.17 hrs, Volume= 6,888 cf, Atten= 6%, Lag= 3.7 min
Routed to Pond 39P : Basin 4 Forebay

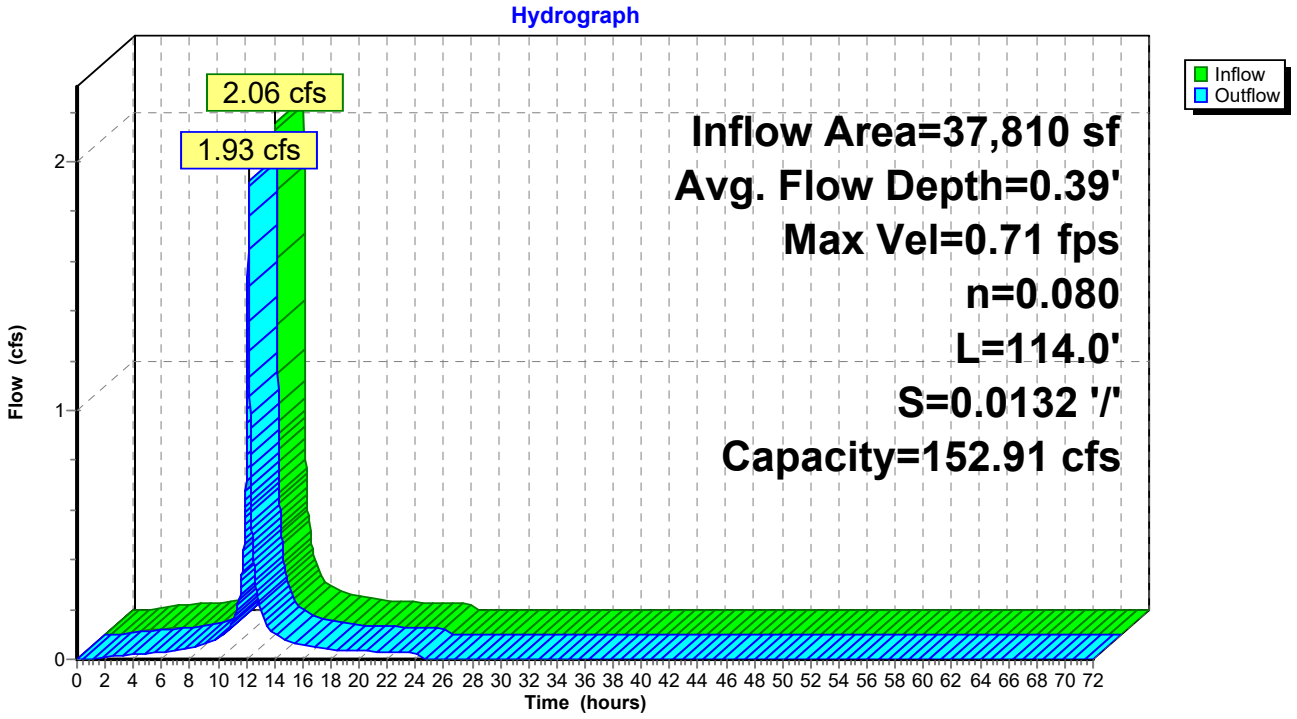
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.71 fps, Min. Travel Time= 2.7 min
Avg. Velocity = 0.27 fps, Avg. Travel Time= 7.0 min

Peak Storage= 309 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.39' , Surface Width= 13.97'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 152.91 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 114.0' Slope= 0.0132 '/'
Inlet Invert= 159.50', Outlet Invert= 158.00'



‡



Summary for Reach 43R: DA4 Roadside swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 2.50" for 2-year_projected event
Inflow = 2.95 cfs @ 12.32 hrs, Volume= 14,551 cf
Outflow = 2.92 cfs @ 12.34 hrs, Volume= 14,551 cf, Atten= 1%, Lag= 1.5 min
Routed to Reach 44R : DA4 Culvert

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.01 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 0.57 fps, Avg. Travel Time= 3.0 min

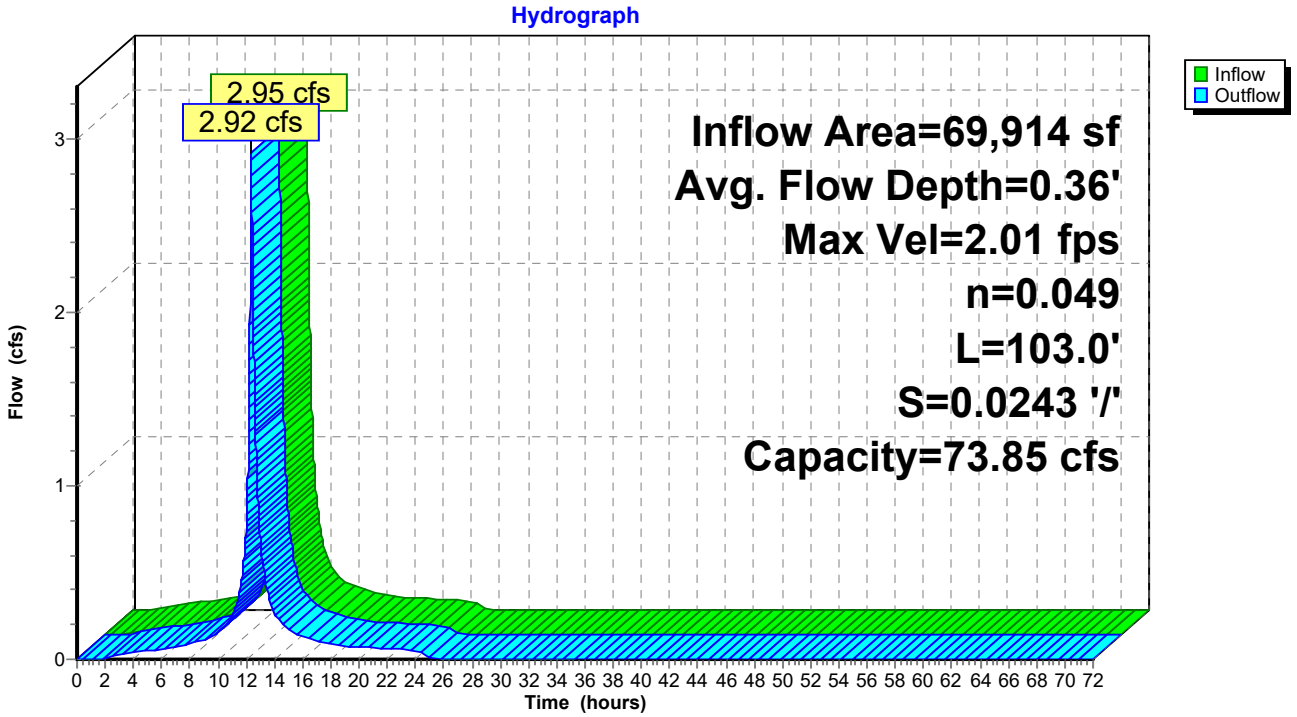
Peak Storage= 150 cf @ 12.33 hrs
Average Depth at Peak Storage= 0.36' , Surface Width= 5.15'
Bank-Full Depth= 1.80' Flow Area= 15.1 sf, Capacity= 73.85 cfs

3.00' x 1.80' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 13.80'
Length= 103.0' Slope= 0.0243 '/'
Inlet Invert= 160.20', Outlet Invert= 157.70'



‡

Reach 43R: DA4 Roadside swale



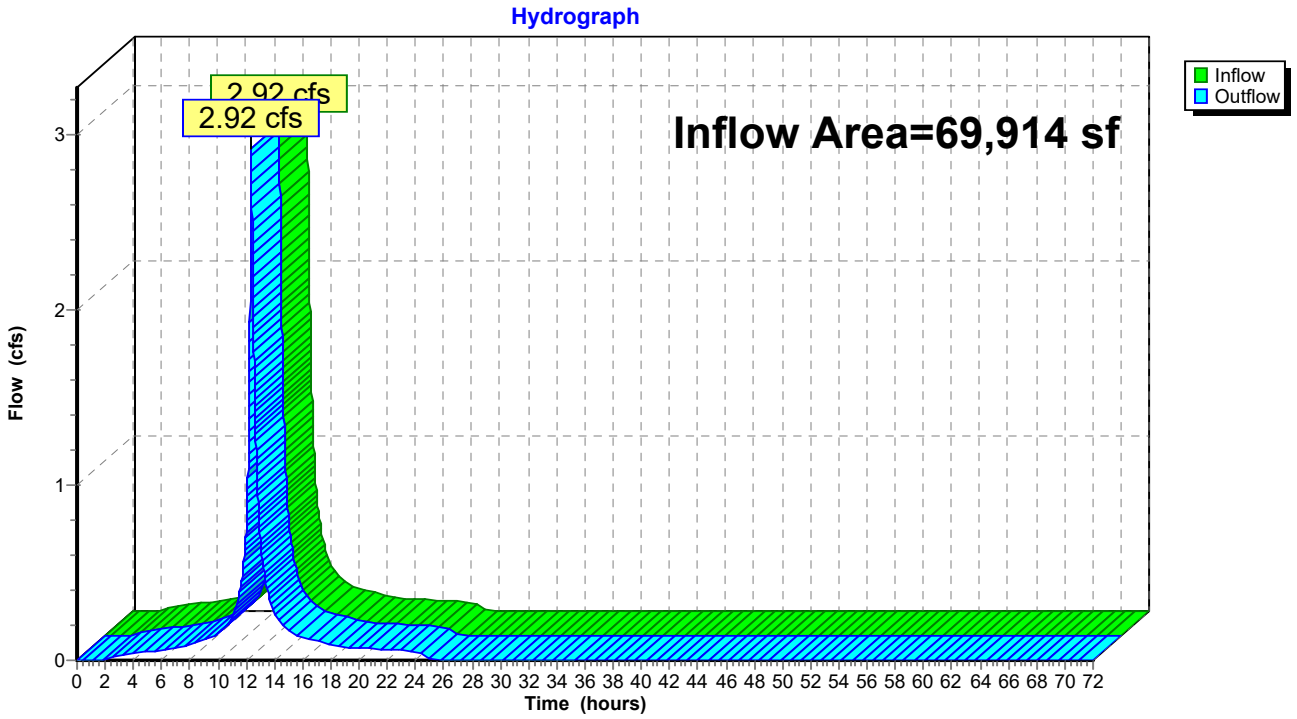
Summary for Reach 44R: DA4 Culvert

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 2.50" for 2-year_projected event
Inflow = 2.92 cfs @ 12.34 hrs, Volume= 14,551 cf
Outflow = 2.92 cfs @ 12.34 hrs, Volume= 14,551 cf, Atten= 0%, Lag= 0.0 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach 44R: DA4 Culvert

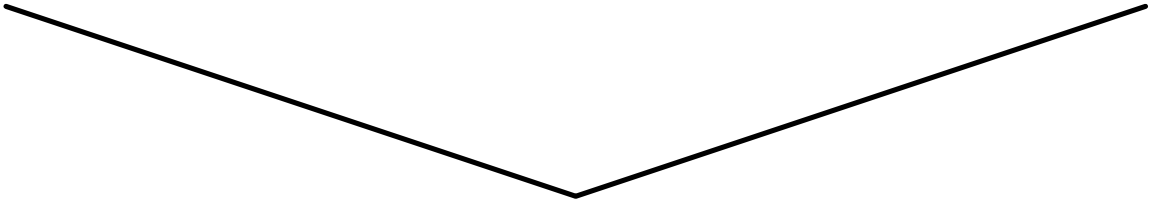


Summary for Reach 45R: DA2B Road Swale

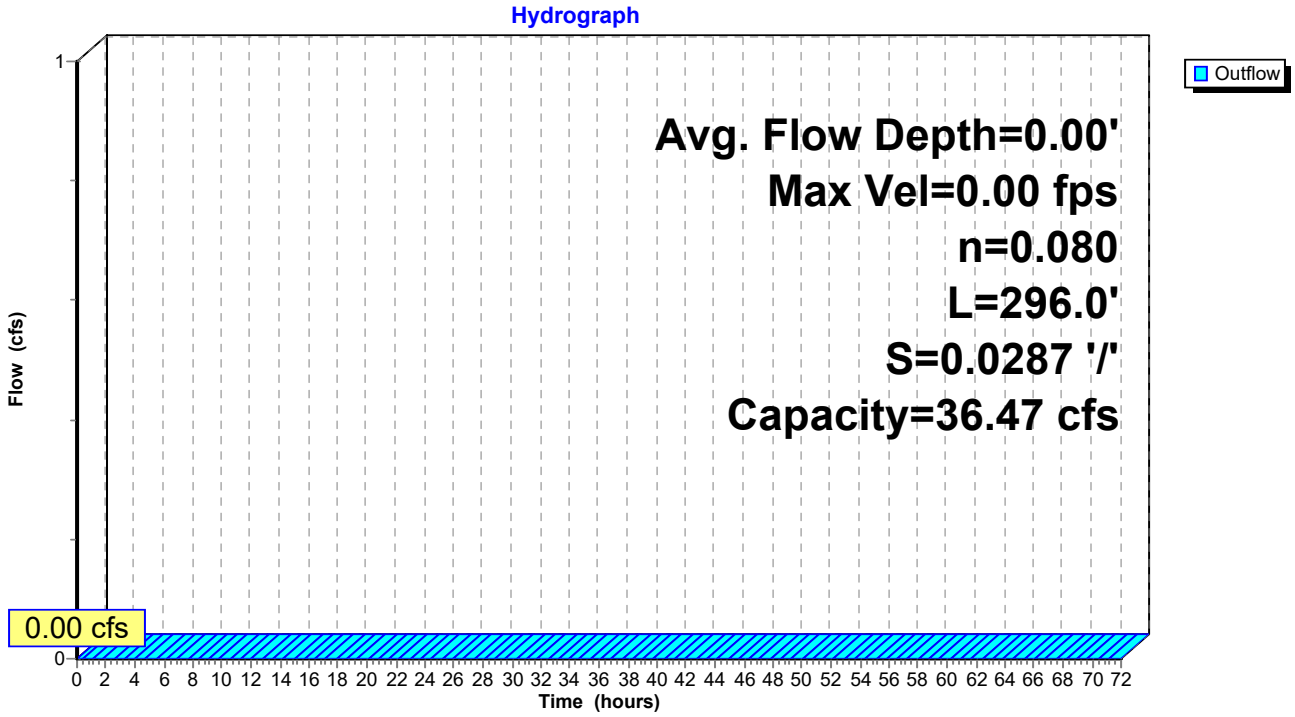
[43] Hint: Has no inflow (Outflow=Zero)

Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 36.47 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 296.0' Slope= 0.0287 '/'
Inlet Invert= 171.00', Outlet Invert= 162.50'



Reach 45R: DA2B Road Swale



Summary for Pond 15P: Basin 1A Forebay

Inflow Area = 510,150 sf, 6.82% Impervious, Inflow Depth = 0.30" for 2-year_projected event
Inflow = 0.98 cfs @ 13.00 hrs, Volume= 12,806 cf
Outflow = 0.98 cfs @ 13.06 hrs, Volume= 9,568 cf, Atten= 0%, Lag= 3.5 min
Primary = 0.98 cfs @ 13.06 hrs, Volume= 9,568 cf
Routed to Pond 48P : Basin 1A Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.90' @ 13.06 hrs Surf.Area= 1,770 sf Storage= 3,412 cf

Plug-Flow detention time= 231.2 min calculated for 9,568 cf (75% of inflow)
Center-of-Mass det. time= 100.4 min (1,010.0 - 909.6)

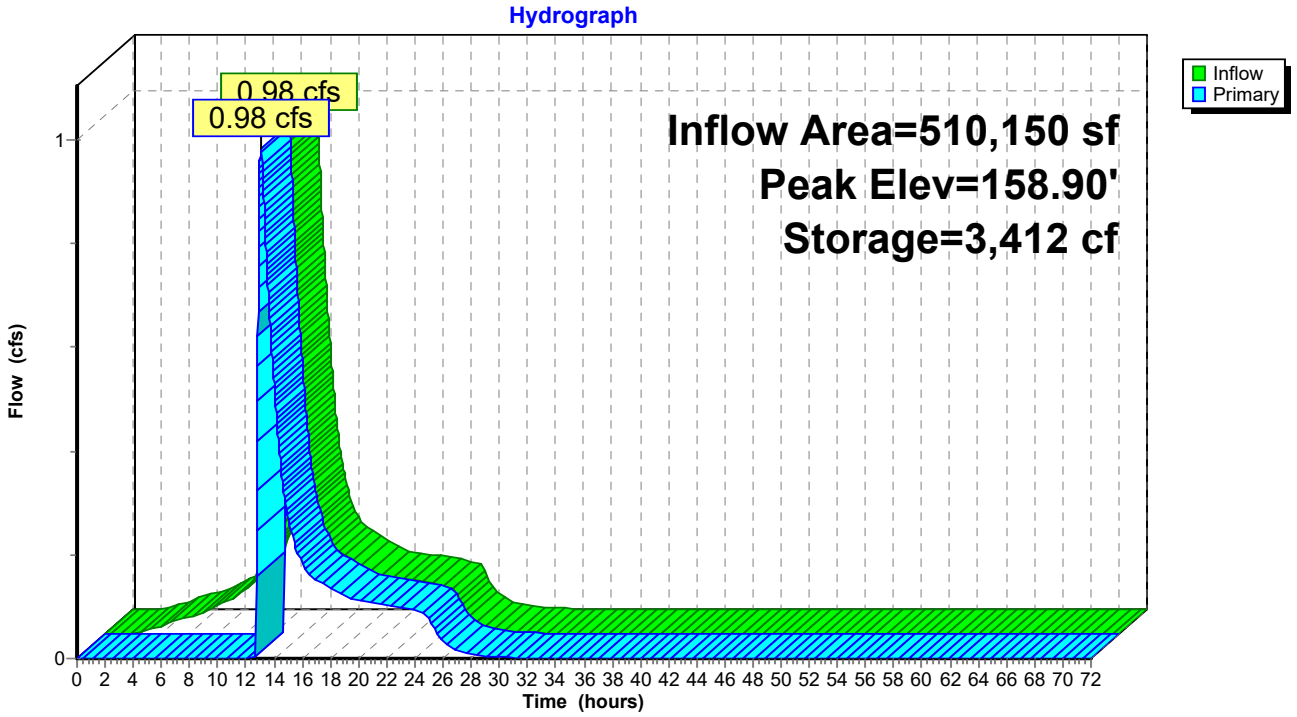
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	3,964 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	662	0	0
156.20	723	138	138
156.70	885	402	540
157.20	1,062	487	1,027
157.70	1,253	579	1,606
158.20	1,458	678	2,284
158.70	1,677	784	3,067
159.20	1,910	897	3,964

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.80'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Primary	159.00'	**25.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.97 cfs @ 13.06 hrs HW=158.90' (Free Discharge)
└**2=Culvert** (Passes 0.97 cfs of 16.46 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 0.97 cfs @ 1.03 fps)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 15P: Basin 1A Forebay



Summary for Pond 18P: Basin 1B Forebay

Inflow Area = 114,201 sf, 89.03% Impervious, Inflow Depth = 3.38" for 2-year_projected event
Inflow = 6.61 cfs @ 12.29 hrs, Volume= 32,170 cf
Outflow = 5.90 cfs @ 12.34 hrs, Volume= 22,161 cf, Atten= 11%, Lag= 3.0 min
Primary = 5.90 cfs @ 12.34 hrs, Volume= 22,161 cf
Routed to Pond 43P : Basin 1B Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.83' @ 12.34 hrs Surf.Area= 5,173 sf Storage= 11,684 cf

Plug-Flow detention time= 210.0 min calculated for 22,161 cf (69% of inflow)
Center-of-Mass det. time= 101.3 min (877.5 - 776.1)

Volume	Invert	Avail.Storage	Storage Description
#1	155.98'	18,291 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

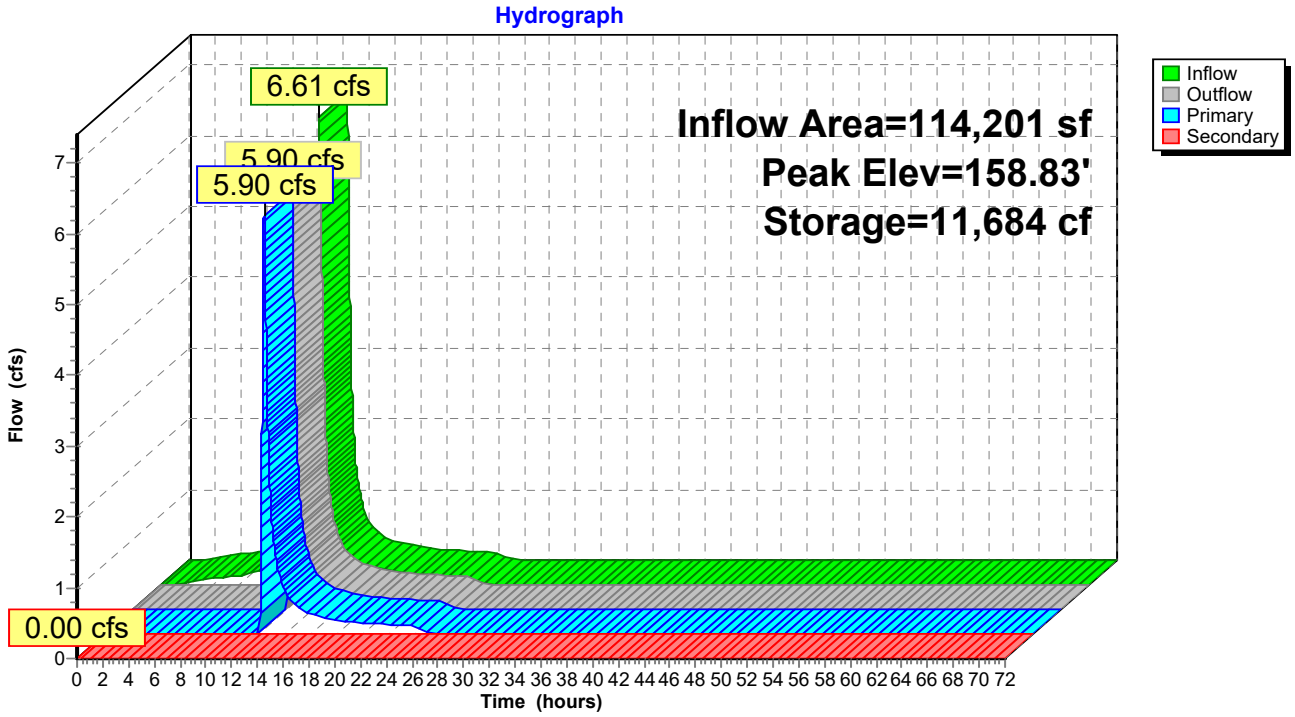
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.98	3,096	0	0
156.00	3,108	62	62
156.50	3,440	1,637	1,699
157.00	3,785	1,806	3,505
157.50	4,145	1,983	5,488
158.00	4,518	2,166	7,654
158.50	4,906	2,356	10,010
159.00	5,308	2,554	12,563
159.50	5,724	2,758	15,321
160.00	6,154	2,970	18,291

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	159.50'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=5.90 cfs @ 12.34 hrs HW=158.83' (Free Discharge)
└**2=Culvert** (Passes 5.90 cfs of 9.69 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 5.90 cfs @ 1.88 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 18P: Basin 1B Forebay



Summary for Pond 26P: Basin 2A Forebay

Inflow Area = 114,388 sf, 72.58% Impervious, Inflow Depth = 2.75" for 2-year_projected event
Inflow = 4.34 cfs @ 12.17 hrs, Volume= 26,242 cf
Outflow = 3.88 cfs @ 12.21 hrs, Volume= 18,996 cf, Atten= 11%, Lag= 2.0 min
Primary = 3.88 cfs @ 12.21 hrs, Volume= 18,996 cf
Routed to Pond 44P : Basin 2A Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.95' @ 12.21 hrs Surf.Area= 5,113 sf Storage= 8,506 cf

Plug-Flow detention time= 198.8 min calculated for 18,996 cf (72% of inflow)
Center-of-Mass det. time= 95.6 min (869.9 - 774.3)

Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	11,435 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

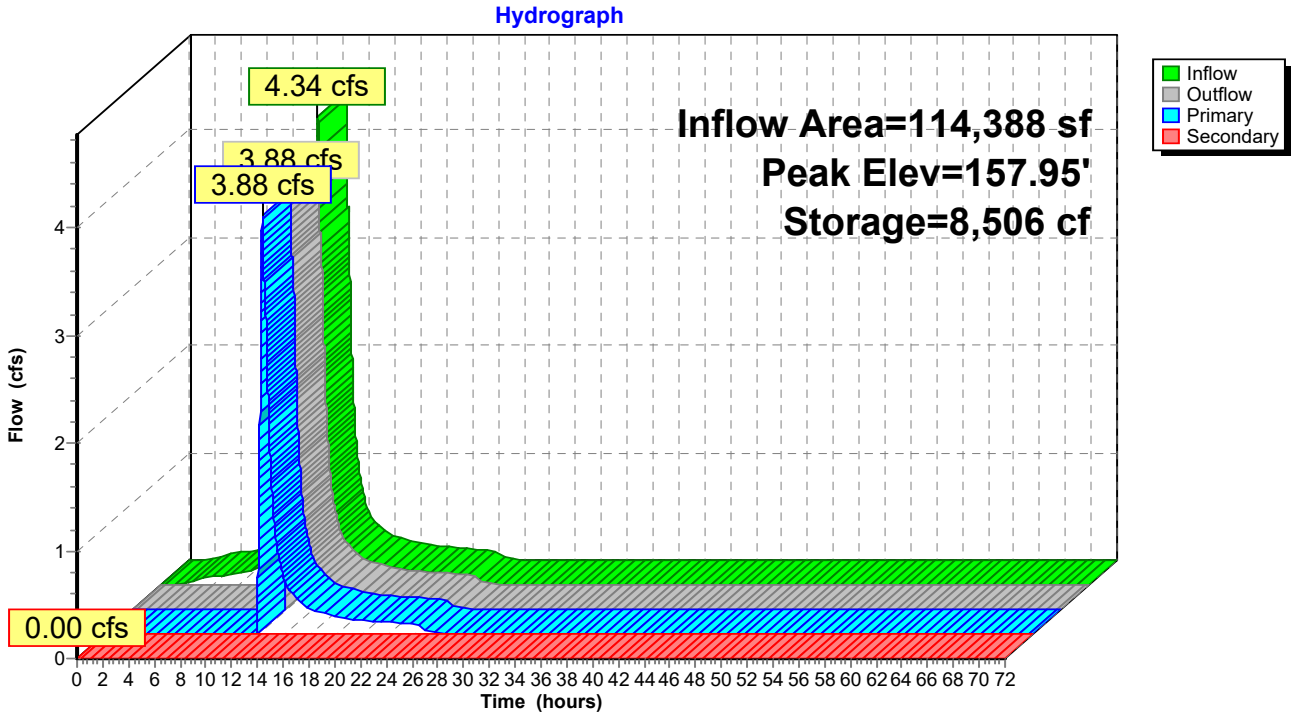
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	3,639	0	0
156.50	3,996	1,909	1,909
157.00	4,367	2,091	4,000
157.50	4,753	2,280	6,280
158.00	5,152	2,476	8,756
158.50	5,566	2,680	11,435

Device	Routing	Invert	Outlet Devices
#1	Secondary	158.30'	**20.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32
#2	Device 3	157.70'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Primary	156.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.00' S= 0.0417 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.88 cfs @ 12.21 hrs HW=157.95' (Free Discharge)
└**3=Culvert** (Passes 3.88 cfs of 7.36 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 3.88 cfs @ 1.64 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 26P: Basin 2A Forebay



Summary for Pond 38P: Basin 3 Forebay

Inflow Area = 106,766 sf, 0.94% Impervious, Inflow Depth = 1.07" for 2-year_projected event
Inflow = 2.05 cfs @ 12.33 hrs, Volume= 9,534 cf
Outflow = 0.22 cfs @ 14.11 hrs, Volume= 4,076 cf, Atten= 89%, Lag= 106.8 min
Primary = 0.22 cfs @ 14.11 hrs, Volume= 4,076 cf
Routed to Pond 60P : Basin 3 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 145.54' @ 14.11 hrs Surf.Area= 4,209 sf Storage= 5,605 cf

Plug-Flow detention time= 346.4 min calculated for 4,075 cf (43% of inflow)
Center-of-Mass det. time= 196.1 min (1,079.0 - 882.8)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	18,417 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

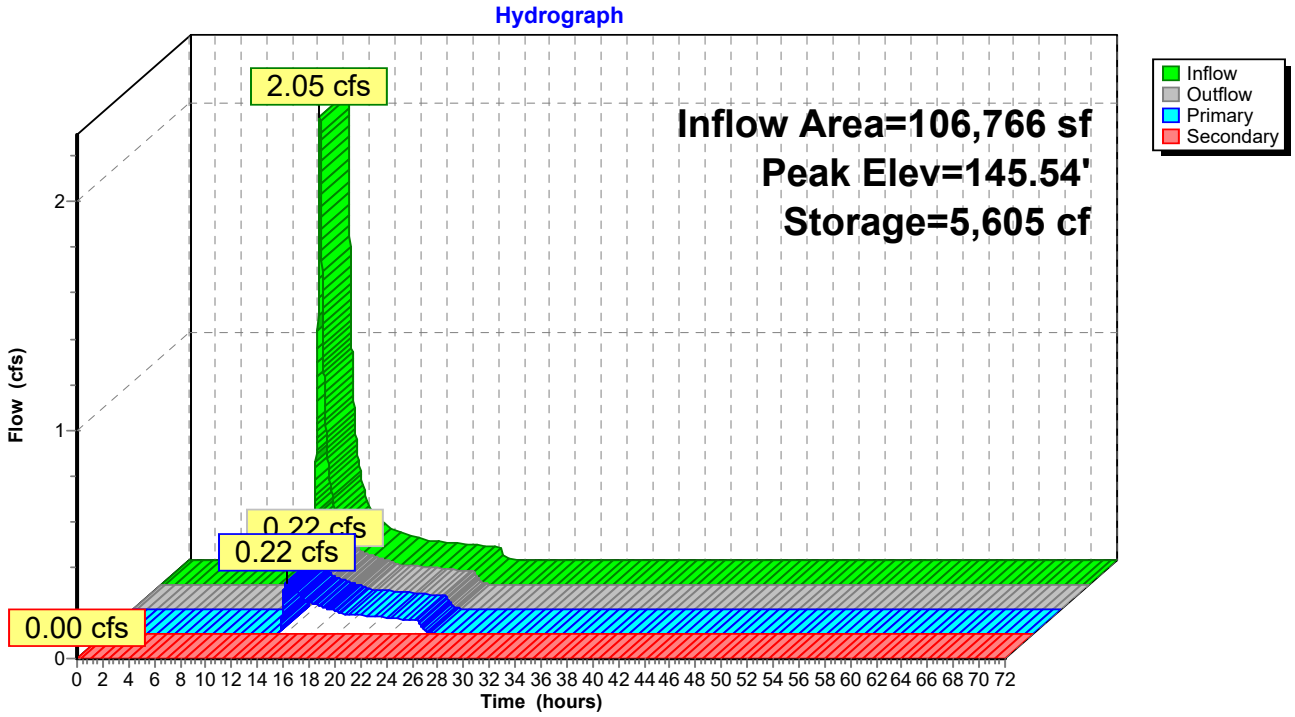
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.00	3,115	0	0
144.50	3,456	1,643	1,643
145.00	3,812	1,817	3,460
145.50	4,182	1,999	5,458
146.00	4,565	2,187	7,645
146.50	4,963	2,382	10,027
147.00	5,375	2,585	12,612
147.50	5,802	2,794	15,406
148.00	6,242	3,011	18,417

Device	Routing	Invert	Outlet Devices
#1	Device 2	145.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	144.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 144.00' / 143.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.20 cfs @ 14.11 hrs HW=145.54' (Free Discharge)
↑—**2=Culvert** (Passes 0.20 cfs of 5.95 cfs potential flow)
↑—**1=Orifice/Grate** (Weir Controls 0.20 cfs @ 0.61 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 38P: Basin 3 Forebay



Summary for Pond 39P: Basin 4 Forebay

[61] Hint: Exceeded Reach 42R outlet invert by 0.22' @ 12.39 hrs

Inflow Area = 112,908 sf, 64.51% Impervious, Inflow Depth = 2.45" for 2-year_projected event
Inflow = 3.65 cfs @ 12.34 hrs, Volume= 23,069 cf
Outflow = 3.29 cfs @ 12.39 hrs, Volume= 13,859 cf, Atten= 10%, Lag= 3.2 min
Primary = 3.29 cfs @ 12.39 hrs, Volume= 13,859 cf
Routed to Pond 51P : Basin 4 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.22' @ 12.39 hrs Surf.Area= 4,268 sf Storage= 10,150 cf

Plug-Flow detention time= 248.5 min calculated for 13,857 cf (60% of inflow)
Center-of-Mass det. time= 123.0 min (899.6 - 776.7)

Volume	Invert	Avail.Storage	Storage Description
#1	155.00'	15,703 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

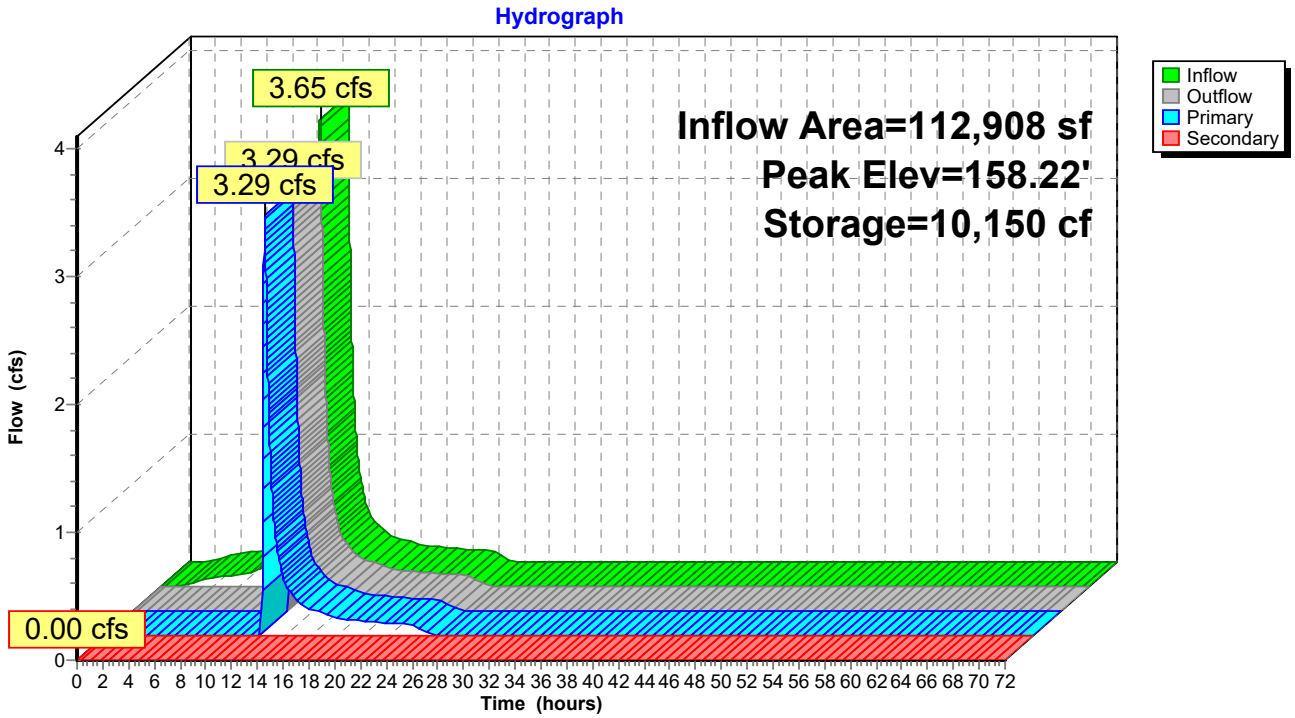
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.00	2,116	0	0
155.40	2,360	895	895
155.90	2,665	1,256	2,151
156.40	2,983	1,412	3,563
156.90	3,316	1,575	5,138
157.40	3,663	1,745	6,883
157.50	3,734	370	7,253
157.90	4,024	1,552	8,804
158.40	4,400	2,106	10,910
158.90	4,789	2,297	13,208
159.40	5,192	2,495	15,703

Device	Routing	Invert	Outlet Devices
#1	Primary	155.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 155.00' / 154.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	158.00'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	158.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=3.28 cfs @ 12.39 hrs HW=158.22' (Free Discharge)
└─**1=Culvert** (Passes 3.28 cfs of 10.57 cfs potential flow)
└─**2=Orifice/Grate** (Weir Controls 3.28 cfs @ 1.55 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└─**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 39P: Basin 4 Forebay



Summary for Pond 43P: Basin 1B Bioretention

[79] Warning: Submerged Pond 18P Primary device # 2 INLET by 1.54'

Inflow Area = 126,097 sf, 87.23% Impervious, Inflow Depth = 2.37" for 2-year_projected event
Inflow = 6.06 cfs @ 12.34 hrs, Volume= 24,937 cf
Outflow = 0.24 cfs @ 17.45 hrs, Volume= 4,951 cf, Atten= 96%, Lag= 306.1 min
Primary = 0.24 cfs @ 17.45 hrs, Volume= 4,951 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.54' @ 17.45 hrs Surf.Area= 7,308 sf Storage= 20,254 cf

Plug-Flow detention time= 532.2 min calculated for 4,950 cf (20% of inflow)
Center-of-Mass det. time= 368.1 min (1,232.3 - 864.2)

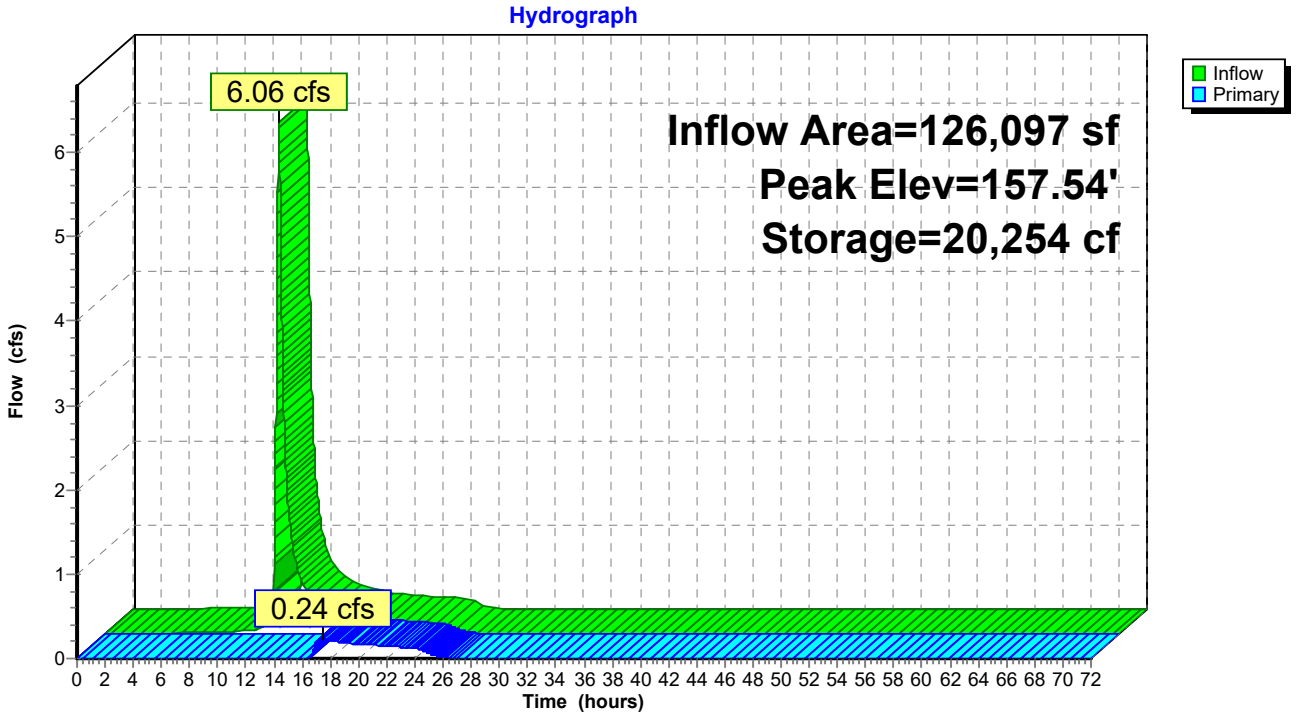
Volume	Invert	Avail.Storage	Storage Description
#1	153.98'	24,528 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.98	4,198	0	0
154.00	4,213	84	84
154.50	4,608	2,205	2,289
155.00	5,017	2,406	4,696
155.50	5,440	2,614	7,310
156.00	5,877	2,829	10,139
156.50	6,328	3,051	13,190
157.00	6,793	3,280	16,471
157.50	7,272	3,516	19,987
158.00	7,768	3,760	23,747
158.10	7,850	781	24,528

Device	Routing	Invert	Outlet Devices
#1	Device 2	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	154.00'	**24.0" Round Culvert** L= 32.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 152.00' S= 0.0625 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.22 cfs @ 17.45 hrs HW=157.54' (Free Discharge)
↑**2=Culvert** (Passes 0.22 cfs of 19.02 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 0.22 cfs @ 0.63 fps)

Pond 43P: Basin 1B Bioretention



Summary for Pond 44P: Basin 2A Bioretention

[79] Warning: Submerged Pond 26P Primary device # 3 INLET by 1.52'

Inflow Area = 127,935 sf, 75.49% Impervious, Inflow Depth = 2.18" for 2-year_projected event
Inflow = 4.28 cfs @ 12.19 hrs, Volume= 23,258 cf
Outflow = 0.09 cfs @ 24.18 hrs, Volume= 574 cf, Atten= 98%, Lag= 718.9 min
Primary = 0.09 cfs @ 24.18 hrs, Volume= 574 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.52' @ 24.18 hrs Surf.Area= 8,399 sf Storage= 22,848 cf

Plug-Flow detention time= 1,085.2 min calculated for 574 cf (2% of inflow)
Center-of-Mass det. time= 634.7 min (1,482.2 - 847.5)

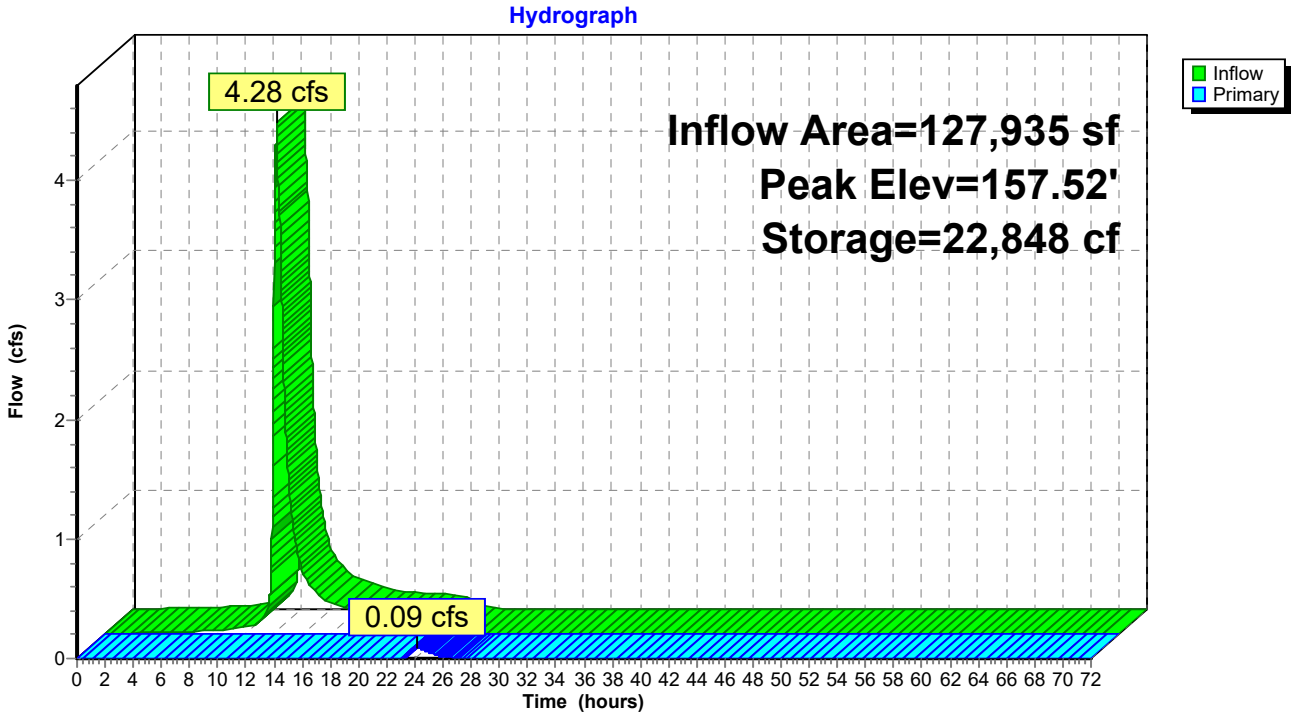
Volume	Invert	Avail.Storage	Storage Description
#1	154.00'	27,017 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
154.00	4,692	0	0
154.50	5,178	2,468	2,468
155.00	5,678	2,714	5,182
155.50	6,192	2,968	8,149
156.00	6,718	3,228	11,377
156.50	7,258	3,494	14,871
157.00	7,810	3,767	18,638
157.50	8,376	4,047	22,684
158.00	8,955	4,333	27,017

Device	Routing	Invert	Outlet Devices
#1	Primary	154.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 153.00' S= 0.0417 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.08 cfs @ 24.18 hrs HW=157.52' (Free Discharge)
↑**1=Culvert** (Passes 0.08 cfs of 11.18 cfs potential flow)
↑**2=Orifice/Grate** (Weir Controls 0.08 cfs @ 0.46 fps)

Pond 44P: Basin 2A Bioretention



Summary for Pond 45P: Basin 2A Infiltration

Inflow Area = 177,071 sf, 82.29% Impervious, Inflow Depth = 1.09" for 2-year_projected event
Inflow = 4.73 cfs @ 12.09 hrs, Volume= 16,031 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 151.33' @ 71.80 hrs Surf.Area= 22,139 sf Storage= 16,031 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

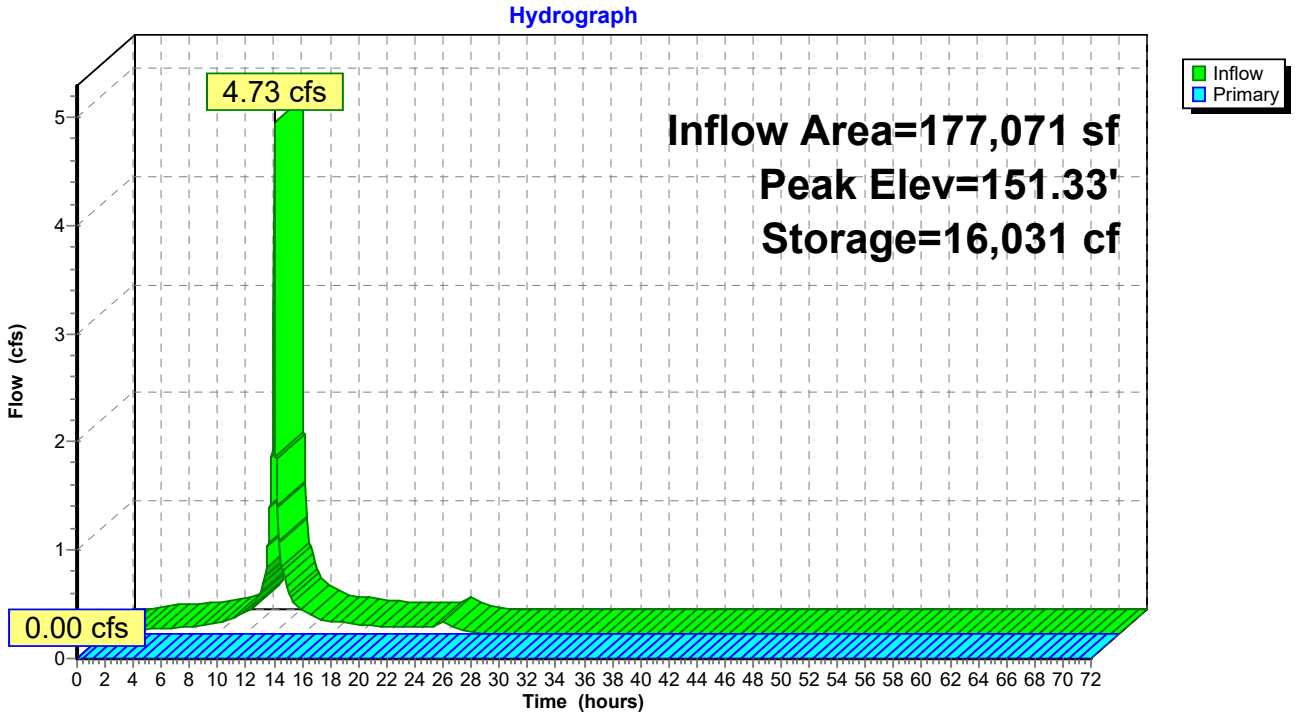
Volume	Invert	Avail.Storage	Storage Description
#1	150.50'	211,473 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.50	13,884	0	0
151.00	21,491	8,844	8,844
151.50	22,475	10,992	19,835
152.00	23,686	11,540	31,376
152.50	24,504	12,048	43,423
153.00	25,550	12,514	55,937
153.50	26,612	13,041	68,977
154.00	27,691	13,576	82,553
154.50	28,785	14,119	96,672
155.00	29,903	14,672	111,344
155.50	31,034	15,234	126,578
156.00	32,184	15,805	142,383
156.50	33,348	16,383	158,766
157.00	34,530	16,970	175,735
157.50	35,731	17,565	193,300
158.00	36,958	18,172	211,473

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.50' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 45P: Basin 2A Infiltration



Summary for Pond 46P: Basin 1B Infiltration

Inflow Area = 156,153 sf, 89.68% Impervious, Inflow Depth = 1.11" for 2-year_projected event
Inflow = 2.89 cfs @ 12.09 hrs, Volume= 14,406 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 148.86' @ 71.32 hrs Surf.Area= 17,042 sf Storage= 14,405 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

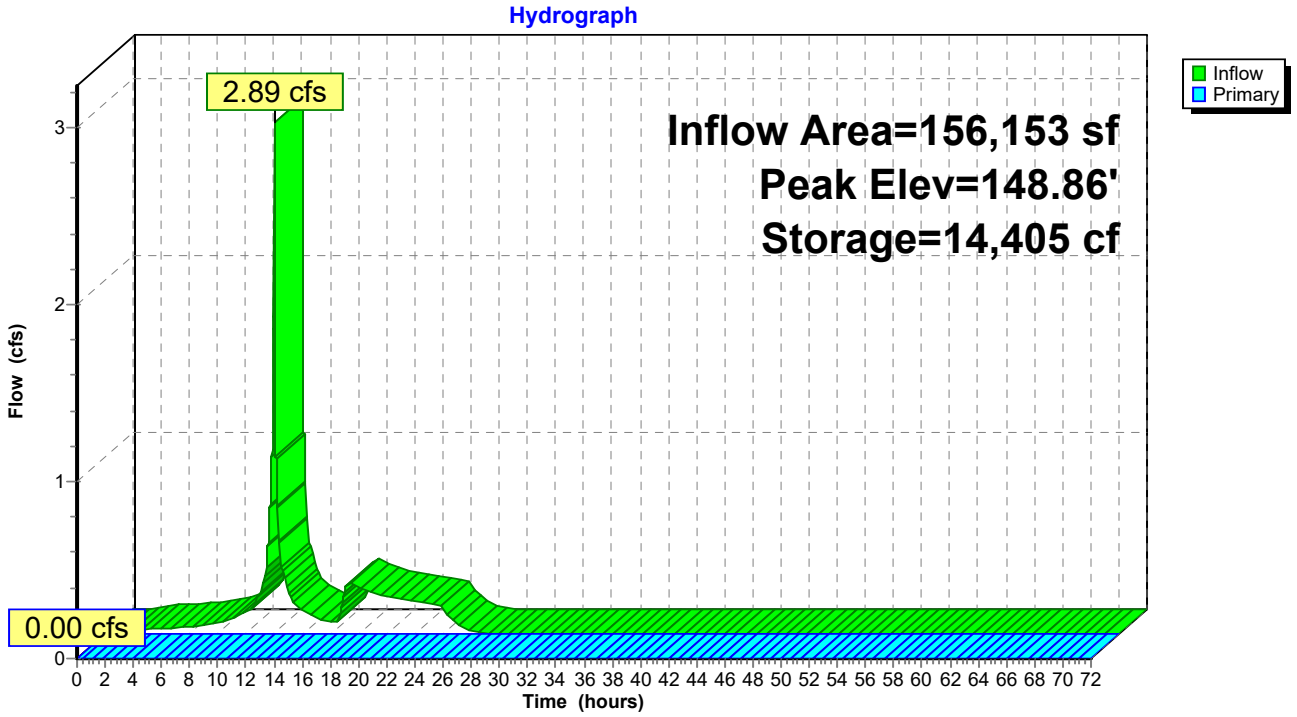
Volume	Invert	Avail.Storage	Storage Description
#1	147.98'	135,038 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.98	15,656	0	0
148.40	16,310	6,713	6,713
148.90	17,103	8,353	15,066
149.40	17,911	8,754	23,820
149.90	18,735	9,162	32,981
150.40	19,574	9,577	42,558
150.90	20,428	10,001	52,559
151.40	21,297	10,431	62,990
151.90	22,181	10,870	73,860
152.40	23,080	11,315	85,175
152.90	23,993	11,768	96,943
153.40	24,920	12,228	109,171
153.90	25,863	12,696	121,867
154.40	26,819	13,171	135,038

Device	Routing	Invert	Outlet Devices
#1	Primary	153.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.98' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 46P: Basin 1B Infiltration



Summary for Pond 48P: Basin 1A Infiltration Basin

Inflow Area = 562,771 sf, 15.53% Impervious, Inflow Depth = 0.56" for 2-year_projected event
Inflow = 5.06 cfs @ 12.09 hrs, Volume= 26,122 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 151.13' @ 72.00 hrs Surf.Area= 24,239 sf Storage= 26,120 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

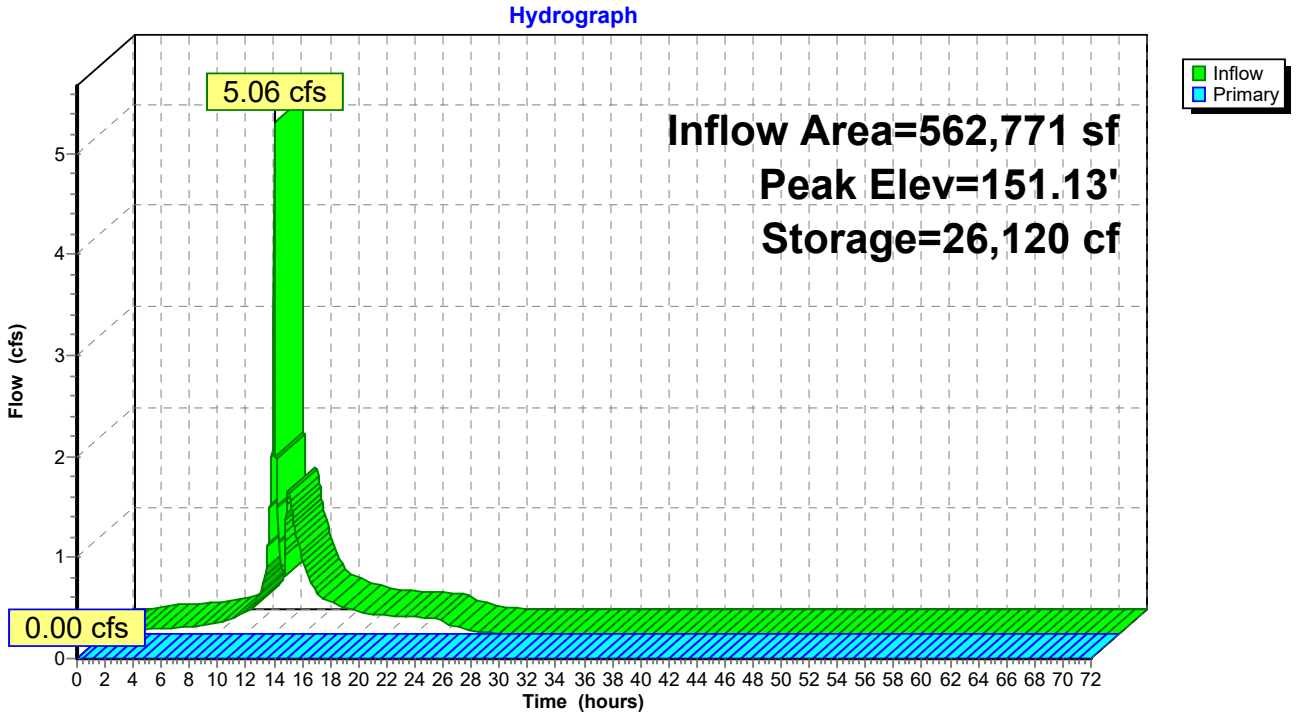
Volume	Invert	Avail.Storage	Storage Description
#1	150.00'	298,930 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.00	21,799	0	0
150.20	22,236	4,403	4,403
150.70	23,295	11,383	15,786
151.20	24,380	11,919	27,705
151.70	25,491	12,468	40,173
152.20	26,624	13,029	53,201
152.70	27,774	13,600	66,801
153.20	28,940	14,179	80,979
153.70	30,120	14,765	95,744
154.20	31,316	15,359	111,103
154.70	32,526	15,961	127,064
155.20	33,749	16,569	143,633
155.70	34,987	17,184	160,817
156.20	36,240	17,807	178,623
156.70	37,506	18,437	197,060
157.20	38,786	19,073	216,133
157.70	40,081	19,717	235,850
158.20	41,390	20,368	256,217
158.70	42,718	21,027	277,244
159.20	44,026	21,686	298,930

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' (Free Discharge)
↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 48P: Basin 1A Infiltration Basin



Summary for Pond 51P: Basin 4 Bioretention

[79] Warning: Submerged Pond 39P Primary device # 1 INLET by 1.52'

Inflow Area = 148,627 sf, 52.11% Impervious, Inflow Depth = 1.35" for 2-year_projected event
Inflow = 3.44 cfs @ 12.39 hrs, Volume= 16,695 cf
Outflow = 0.13 cfs @ 20.58 hrs, Volume= 2,172 cf, Atten= 96%, Lag= 491.2 min
Primary = 0.13 cfs @ 20.58 hrs, Volume= 2,172 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 156.52' @ 20.58 hrs Surf.Area= 6,213 sf Storage= 14,674 cf

Plug-Flow detention time= 648.7 min calculated for 2,172 cf (13% of inflow)
Center-of-Mass det. time= 450.4 min (1,342.3 - 891.9)

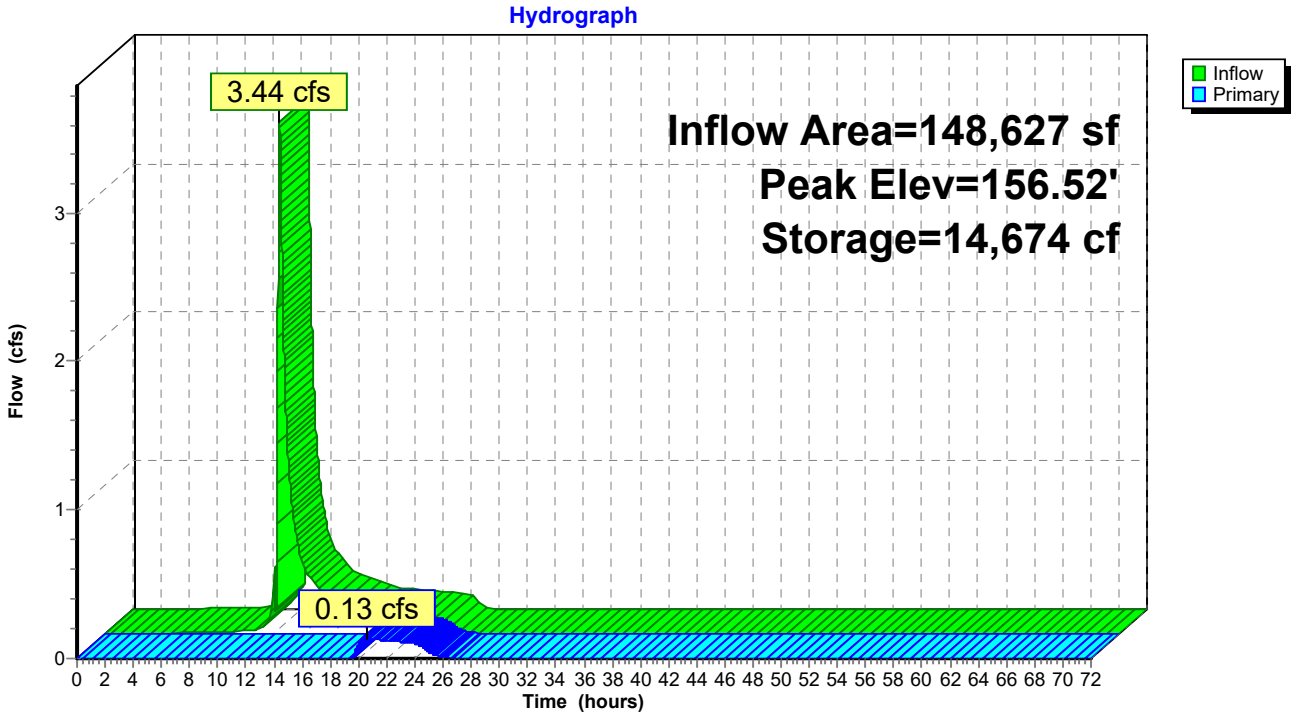
Volume	Invert	Avail.Storage	Storage Description
#1	153.00'	36,070 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.00	2,922	0	0
153.90	3,287	2,794	2,794
154.40	3,735	1,756	4,550
154.90	4,199	1,984	6,533
155.40	4,678	2,219	8,752
155.90	5,172	2,463	11,215
156.40	5,682	2,714	13,928
156.50	6,207	594	14,523
156.90	6,314	2,504	17,027
157.40	6,748	3,266	20,292
157.90	7,305	3,513	23,806
158.40	7,877	3,796	27,601
158.90	8,465	4,086	31,687
159.40	9,068	4,383	36,070

Device	Routing	Invert	Outlet Devices
#1	Device 2	156.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	153.00'	**24.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 153.00' / 152.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.12 cfs @ 20.58 hrs HW=156.52' (Free Discharge)
↑**2=Culvert** (Passes 0.12 cfs of 18.97 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 0.12 cfs @ 0.51 fps)

Pond 51P: Basin 4 Bioretention



Summary for Pond 52P: Basin 4 Infiltration

[79] Warning: Submerged Pond 51P Primary device # 2 INLET by 0.46'

Inflow Area = 180,774 sf, 56.17% Impervious, Inflow Depth = 0.67" for 2-year_projected event
Inflow = 2.32 cfs @ 12.09 hrs, Volume= 10,109 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 153.46' @ 71.24 hrs Surf.Area= 10,569 sf Storage= 10,108 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

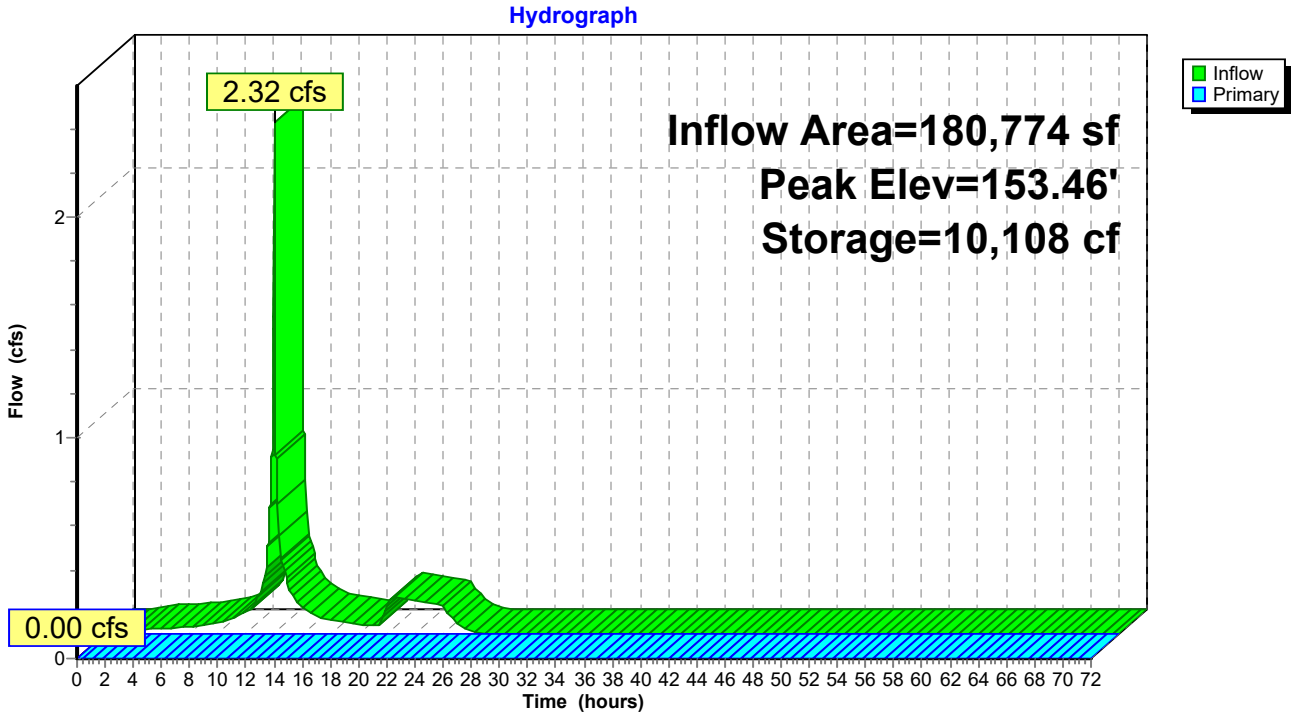
Volume	Invert	Avail.Storage	Storage Description
#1	152.40'	98,072 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
152.40	8,570	0	0
152.90	9,506	4,519	4,519
153.40	10,459	4,991	9,510
153.90	11,430	5,472	14,983
154.40	12,419	5,962	20,945
154.90	13,426	6,461	27,406
155.40	14,449	6,969	34,375
155.90	15,490	7,485	41,860
156.40	16,547	8,009	49,869
156.90	17,620	8,542	58,411
157.40	18,711	9,083	67,493
157.90	19,818	9,632	77,126
158.40	20,943	10,190	87,316
158.90	22,081	10,756	98,072

Device	Routing	Invert	Outlet Devices
#1	Primary	158.80'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.40' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 52P: Basin 4 Infiltration



Summary for Pond 60P: Basin 3 Bioretention

[79] Warning: Submerged Pond 38P Primary device # 2 INLET by 0.33'

Inflow Area = 110,642 sf, 4.41% Impervious, Inflow Depth = 0.57" for 2-year_projected event
Inflow = 0.37 cfs @ 12.09 hrs, Volume= 5,296 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 144.33' @ 70.70 hrs Surf.Area= 4,487 sf Storage= 5,295 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

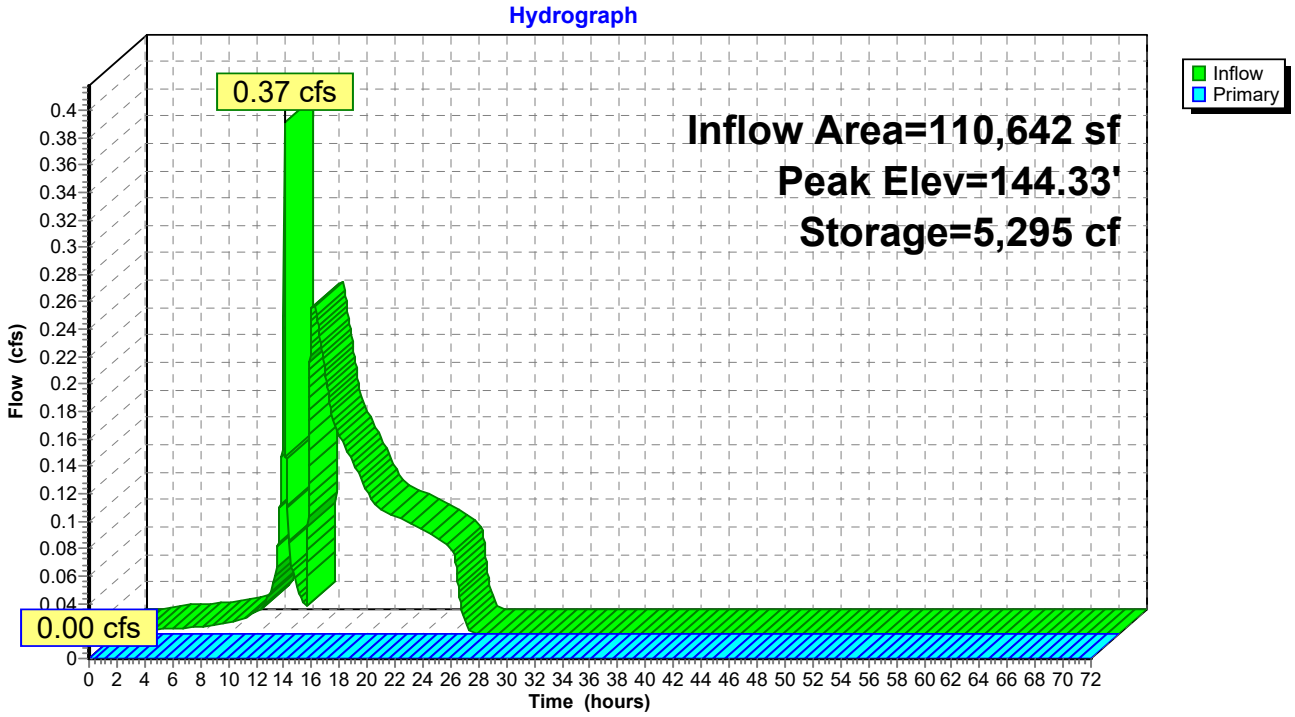
Volume	Invert	Avail.Storage	Storage Description
#1	143.00'	27,552 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.00	3,477	0	0
143.50	3,844	1,830	1,830
144.00	4,224	2,017	3,847
144.50	4,619	2,211	6,058
145.00	5,028	2,412	8,470
145.50	5,450	2,620	11,089
146.00	5,887	2,834	13,924
146.50	6,339	3,057	16,980
147.00	6,804	3,286	20,266
147.50	7,283	3,522	23,788
148.00	7,776	3,765	27,552

Device	Routing	Invert	Outlet Devices
#1	Primary	146.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Device 1	143.00'	**18.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 143.00' / 142.00' S= 0.0227 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.00' (Free Discharge)
↑**1=Orifice/Grate** (Controls 0.00 cfs)
↑**2=Culvert** (Controls 0.00 cfs)

Pond 60P: Basin 3 Bioretention



Summary for Pond 61P: Basin 3 Infiltration

Inflow Area = 126,803 sf, 16.59% Impervious, Inflow Depth = 0.48" for 2-year_projected event
Inflow = 1.55 cfs @ 12.09 hrs, Volume= 5,084 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 142.46' @ 24.01 hrs Surf.Area= 11,281 sf Storage= 5,084 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

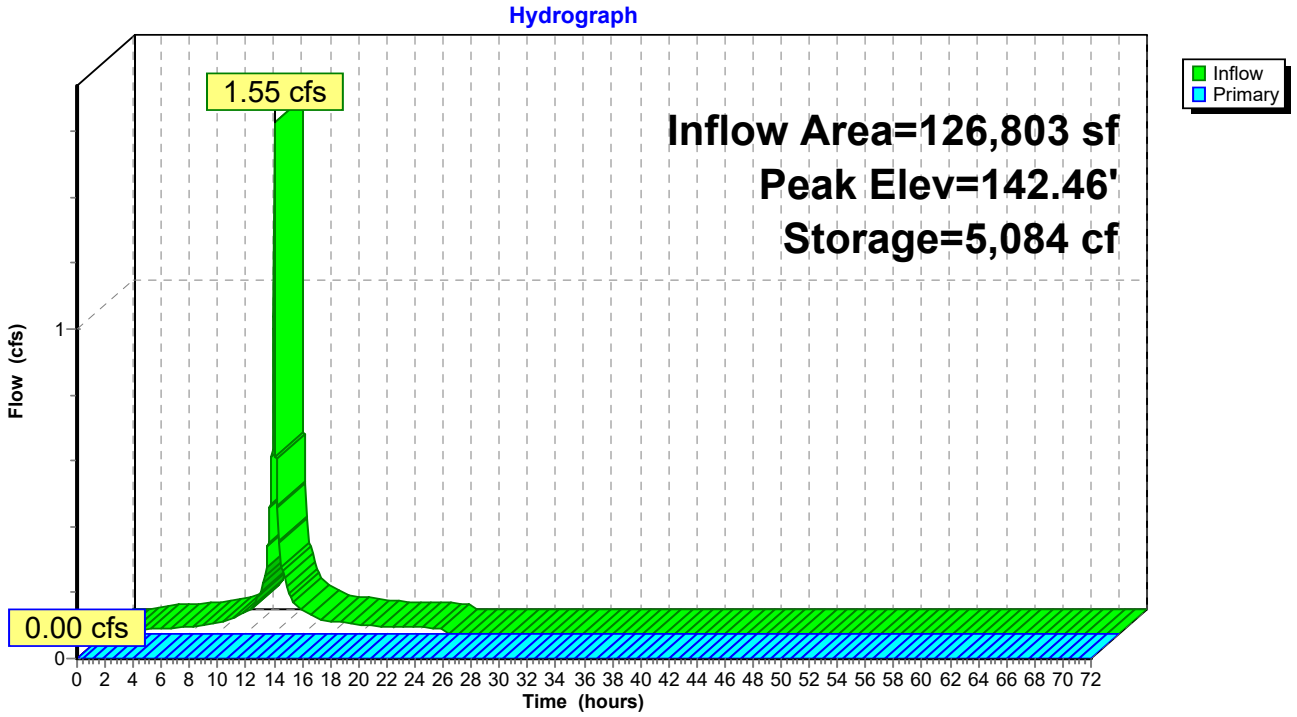
Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	66,946 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
142.00	10,684	0	0
142.30	11,069	3,263	3,263
142.80	11,719	5,697	8,960
143.30	12,382	6,025	14,985
143.80	13,060	6,361	21,346
144.30	13,752	6,703	28,049
144.80	14,458	7,053	35,101
145.30	15,177	7,409	42,510
145.80	15,912	7,772	50,282
146.30	16,660	8,143	58,425
146.80	17,422	8,521	66,946

Device	Routing	Invert	Outlet Devices
#1	Primary	146.30'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 61P: Basin 3 Infiltration



Summary for Pond 65P: Basin 2B Forebay

Inflow Area = 383,157 sf, 7.33% Impervious, Inflow Depth = 0.32" for 2-year_projected event
Inflow = 0.92 cfs @ 12.84 hrs, Volume= 10,223 cf
Outflow = 0.77 cfs @ 13.07 hrs, Volume= 6,160 cf, Atten= 17%, Lag= 14.2 min
Primary = 0.77 cfs @ 13.07 hrs, Volume= 6,160 cf
Routed to Pond 66P : Basin 2B Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.58' @ 13.07 hrs Surf.Area= 2,449 sf Storage= 4,268 cf

Plug-Flow detention time= 316.3 min calculated for 6,159 cf (60% of inflow)
Center-of-Mass det. time= 149.4 min (1,019.8 - 870.4)

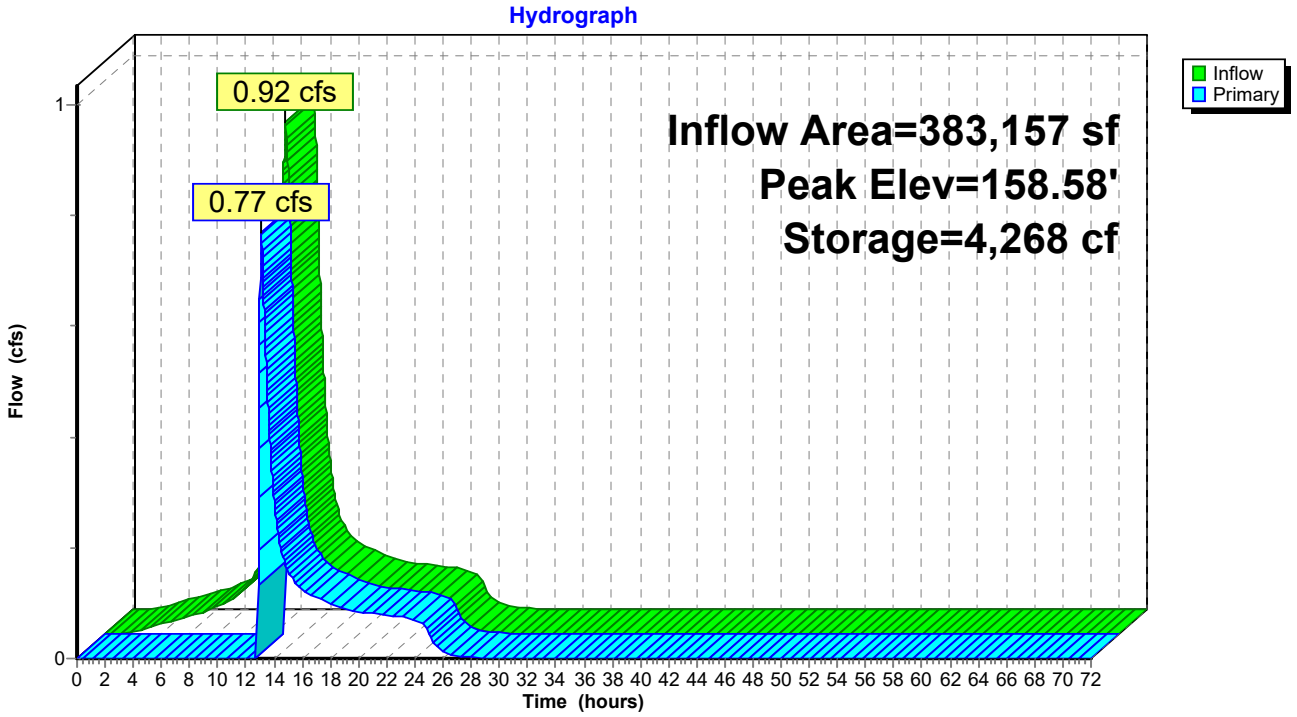
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	8,105 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	928	0	0
156.40	1,136	413	413
156.90	1,406	636	1,048
157.40	1,694	775	1,823
157.90	2,000	924	2,747
158.40	2,324	1,081	3,828
158.50	2,391	236	4,064
158.90	2,666	1,011	5,075
159.40	3,026	1,423	6,498
159.90	3,404	1,608	8,105

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf
#3	Primary	159.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.76 cfs @ 13.07 hrs HW=158.58' (Free Discharge)
- **2=Culvert** (Passes 0.76 cfs of 15.03 cfs potential flow)
  - **1=Orifice/Grate** (Weir Controls 0.76 cfs @ 0.95 fps)
- **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 65P: Basin 2B Forebay



Summary for Pond 66P: Basin 2B Infiltration Basin

Inflow Area = 435,255 sf, 18.42% Impervious, Inflow Depth = 0.62" for 2-year_projected event
Inflow = 5.01 cfs @ 12.09 hrs, Volume= 22,549 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 151.68' @ 72.00 hrs Surf.Area= 34,059 sf Storage= 22,548 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

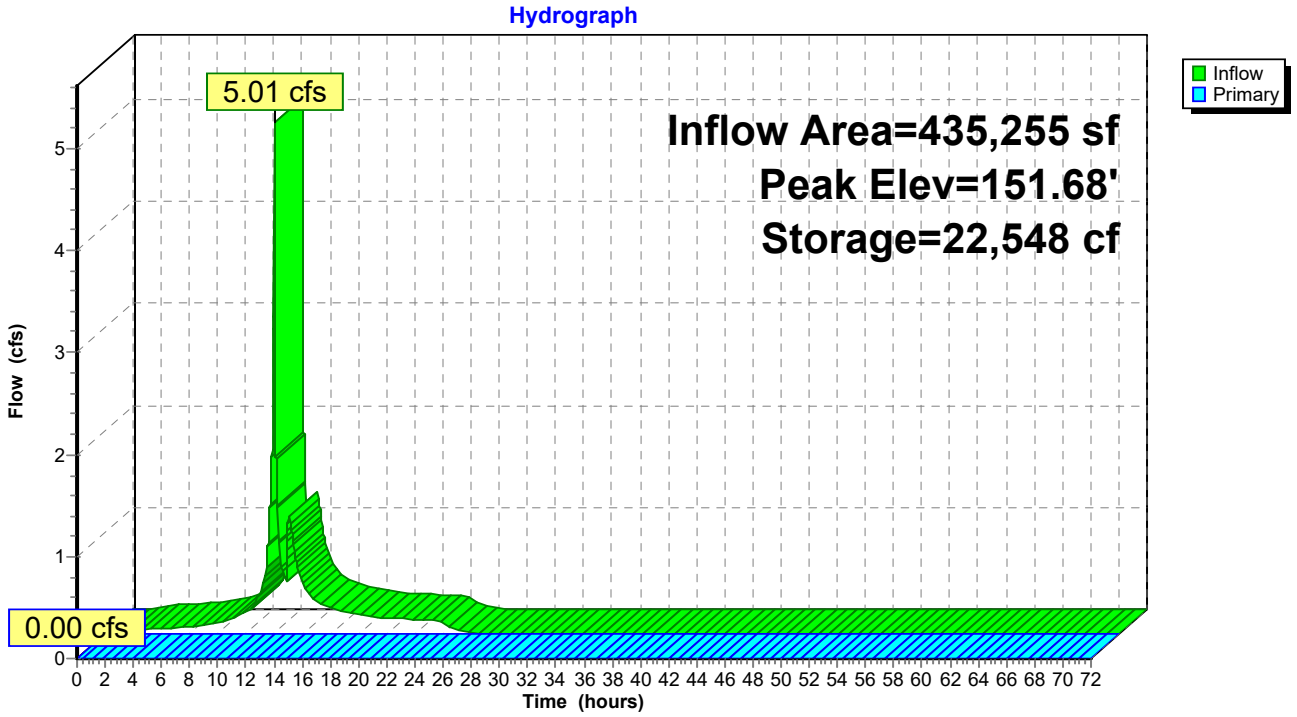
Volume	Invert	Avail.Storage	Storage Description
#1	151.00'	213,861 cf	**Basin 2B Infiltration Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
151.00	32,211	0	0
151.40	33,314	13,105	13,105
151.90	34,642	16,989	30,094
152.40	35,983	17,656	47,750
152.90	37,338	18,330	66,081
153.40	38,708	19,012	85,092
153.90	40,091	19,700	104,792
154.40	41,489	20,395	125,187
154.90	42,901	21,098	146,284
155.40	44,326	21,807	168,091
155.90	45,767	22,523	190,614
156.40	47,221	23,247	213,861

Device	Routing	Invert	Outlet Devices
#1	Primary	155.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=151.00' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 66P: Basin 2B Infiltration Basin



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 23S: Basin 1B Runoff Area=2.391 ac 91.22% Impervious Runoff Depth=5.54"
Flow Length=373' Tc=3.0 min CN=WQ Runoff=14.26 cfs 48,071 cf

Subcatchment 24S: Basin 2A West Runoff Area=1.263 ac 69.91% Impervious Runoff Depth=4.37"
Flow Length=246' Tc=2.1 min CN=WQ Runoff=5.89 cfs 20,022 cf

Subcatchment 25S: Basin 2A East Runoff Area=1.175 ac 71.06% Impervious Runoff Depth=4.43"
Flow Length=370' Tc=3.3 min CN=WQ Runoff=5.48 cfs 18,897 cf

Subcatchment 29S: Basin 2B West Runoff Area=4.192 ac 6.25% Impervious Runoff Depth=0.87"
Flow Length=525' Slope=0.0307 '/' Tc=16.5 min CN=WQ Runoff=1.55 cfs 13,180 cf

Subcatchment 30S: Basin 1A Central Runoff Area=5.749 ac 6.24% Impervious Runoff Depth=0.87"
Flow Length=512' Tc=16.8 min CN=WQ Runoff=2.12 cfs 18,070 cf

Subcatchment 31S: Basin 2B East Runoff Area=195,980 sf 6.17% Impervious Runoff Depth=0.86"
Flow Length=489' Slope=0.0301 '/' Tc=16.1 min CN=WQ Runoff=1.67 cfs 14,070 cf

Subcatchment 32S: undeveloped run on to Runoff Area=3,384 sf 0.00% Impervious Runoff Depth=1.67"
Tc=0.0 min CN=55 Runoff=0.18 cfs 471 cf

Subcatchment 33S: undeveloped run on to Runoff Area=3,576 sf 0.00% Impervious Runoff Depth=1.67"
Tc=0.0 min CN=55 Runoff=0.19 cfs 497 cf

Subcatchment 37S: Basin 3 Runoff Area=2.428 ac 0.00% Impervious Runoff Depth=2.41"
Flow Length=359' Tc=14.3 min CN=WQ Runoff=4.88 cfs 21,250 cf

Subcatchment 39S: Basin 1A East Runoff Area=182,579 sf 6.17% Impervious Runoff Depth=0.86"
Flow Length=413' Tc=15.2 min CN=WQ Runoff=1.59 cfs 13,108 cf

Subcatchment 40S: Basin 1A West Runoff Area=1.696 ac 6.25% Impervious Runoff Depth=0.87"
Flow Length=256' Slope=0.0267 '/' Tc=13.7 min CN=WQ Runoff=0.67 cfs 5,332 cf

Subcatchment 41S: Basin 4 East Runoff Area=0.868 ac 57.37% Impervious Runoff Depth=3.68"
Flow Length=329' Tc=3.1 min CN=WQ Runoff=3.32 cfs 11,587 cf

Subcatchment 42S: Basin 4 West Runoff Area=1.605 ac 65.73% Impervious Runoff Depth=4.14"
Flow Length=255' Slope=0.0284 '/' Tc=1.7 min CN=WQ Runoff=7.08 cfs 24,104 cf

Subcatchment 46S: Direct Rainfall Basin Runoff Area=0.311 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=2.04 cfs 6,798 cf

Subcatchment 47S: Direct Rainfall Basin Runoff Area=1.128 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=7.41 cfs 24,656 cf

Subcatchment 48S: Direct Rainfall Basin Runoff Area=0.191 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=1.25 cfs 4,175 cf

Subcatchment 49S: Direct Rainfall Basin Runoff Area=1.208 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=7.93 cfs 26,405 cf

Subcatchment 50S: Direct Rainfall Basin Runoff Area=0.690 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=4.53 cfs 15,082 cf

Subcatchment 52S: Direct Rainfall Basin Runoff Area=0.075 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=0.49 cfs 1,639 cf

Subcatchment 54S: Direct Rainfall Basin Runoff Area=8,189 sf 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=1.23 cfs 4,109 cf

Subcatchment 55S: Direct Rainfall Basin 3 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=0.15 cfs 503 cf

Subcatchment 56S: Direct Rainfall Basin Runoff Area=0.153 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=1.00 cfs 3,344 cf

Subcatchment 57S: Direct Rainfall Basin 4 Runoff Area=0.119 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=0.78 cfs 2,601 cf

Subcatchment 58S: Direct forest Runoff Area=0.714 ac 0.00% Impervious Runoff Depth=1.67"
Flow Length=234' Tc=38.0 min CN=55 Runoff=0.59 cfs 4,327 cf

Subcatchment 59S: Direct Rainfall Basin 4 Runoff Area=0.553 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=3.63 cfs 12,088 cf

Subcatchment 62S: Direct Rainfall Basin 3 Runoff Area=0.371 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=2.44 cfs 8,109 cf

Subcatchment 65S: Direct Rainfall Basin 3 Runoff Area=0.089 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=0.58 cfs 1,945 cf

Subcatchment 69S: Direct Rainfall Basin Runoff Area=0.105 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=0.69 cfs 2,295 cf

Subcatchment 70S: Direct Rainfall Basin Runoff Area=1.196 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=7.86 cfs 26,143 cf

Subcatchment 71S: Direct Rainfall to Runoff Area=0.106 ac 100.00% Impervious Runoff Depth=6.02"
Tc=0.0 min CN=98 Runoff=0.70 cfs 2,317 cf

Subcatchment 74S: Direct forest runoff to Runoff Area=0.185 ac 0.00% Impervious Runoff Depth=1.67"
Flow Length=152' Tc=29.5 min CN=55 Runoff=0.17 cfs 1,121 cf

Reach 29R: DA1A East Swale Avg. Flow Depth=0.33' Max Vel=0.48 fps Inflow=1.59 cfs 13,108 cf
n=0.080 L=835.0' S=0.0073 '/' Capacity=113.94 cfs Outflow=0.95 cfs 13,108 cf

Reach 30R: DA1A West Swale Avg. Flow Depth=0.44' Max Vel=0.42 fps Inflow=2.19 cfs 23,402 cf
n=0.080 L=650.0' S=0.0038 '/' Capacity=82.67 cfs Outflow=1.44 cfs 23,402 cf

Reach 31R: DA2B East Swale Avg. Flow Depth=0.34' Max Vel=0.52 fps Inflow=1.67 cfs 14,070 cf
n=0.080 L=737.0' S=0.0083 '/' Capacity=121.27 cfs Outflow=1.10 cfs 14,070 cf

Reach 33R: DA2B West Swale Avg. Flow Depth=0.40' Max Vel=0.40 fps Inflow=1.55 cfs 13,180 cf
n=0.080 L=384.0' S=0.0039 '/' Capacity=83.31 cfs Outflow=1.16 cfs 13,180 cf

Reach 34R: DA4 West Swale Avg. Flow Depth=0.68' Max Vel=0.59 fps Inflow=7.08 cfs 24,104 cf
n=0.080 L=357.0' S=0.0042 '/' Capacity=86.41 cfs Outflow=4.92 cfs 24,104 cf

Reach 35R: DA2A West Swale Avg. Flow Depth=0.58' Max Vel=0.61 fps Inflow=5.89 cfs 20,022 cf
n=0.080 L=478.0' S=0.0056 '/' Capacity=100.19 cfs Outflow=3.70 cfs 20,022 cf

Reach 36R: DA2A East Swale Avg. Flow Depth=0.53' Max Vel=1.00 fps Inflow=5.48 cfs 18,897 cf
n=0.080 L=146.0' S=0.0171 '/' Capacity=174.43 cfs Outflow=5.17 cfs 18,897 cf

Reach 37R: DA1B Swale Avg. Flow Depth=0.87' Max Vel=0.77 fps Inflow=14.26 cfs 48,071 cf
n=0.080 L=383.0' S=0.0052 '/' Capacity=96.33 cfs Outflow=10.55 cfs 48,071 cf

Reach 38R: DA3 Swale Avg. Flow Depth=0.79' Max Vel=2.50 fps Inflow=4.88 cfs 21,250 cf
n=0.049 L=418.0' S=0.0251 '/' Capacity=55.69 cfs Outflow=4.71 cfs 21,250 cf

Reach 39R: DA 1A Central Swale A Avg. Flow Depth=0.26' Max Vel=0.34 fps Inflow=0.67 cfs 5,332 cf
n=0.080 L=498.0' S=0.0050 '/' Capacity=94.45 cfs Outflow=0.42 cfs 5,332 cf

Reach 41R: DA 1A Central Swale B Avg. Flow Depth=0.37' Max Vel=1.03 fps Inflow=0.42 cfs 5,332 cf
n=0.080 L=188.0' S=0.0319 '/' Capacity=38.45 cfs Outflow=0.41 cfs 5,332 cf

Reach 42R: DA4 East Swale Avg. Flow Depth=0.46' Max Vel=0.80 fps Inflow=3.32 cfs 11,587 cf
n=0.080 L=114.0' S=0.0132 '/' Capacity=152.91 cfs Outflow=3.12 cfs 11,587 cf

Reach 43R: DA4 Roadside swale Avg. Flow Depth=0.47' Max Vel=2.34 fps Inflow=4.92 cfs 24,104 cf
n=0.049 L=103.0' S=0.0243 '/' Capacity=73.85 cfs Outflow=4.87 cfs 24,104 cf

Reach 44R: DA4 Culvert Inflow=4.87 cfs 24,104 cf
Outflow=4.87 cfs 24,104 cf

Reach 45R: DA2B Road Swale Avg. Flow Depth=0.00' Max Vel=0.00 fps
n=0.080 L=296.0' S=0.0287 '/' Capacity=36.47 cfs Outflow=0.00 cfs 0 cf

Pond 15P: Basin 1A Forebay Peak Elev=158.98' Storage=3,562 cf Inflow=2.43 cfs 38,150 cf
Outflow=2.43 cfs 34,912 cf

Pond 18P: Basin 1B Forebay Peak Elev=158.97' Storage=12,416 cf Inflow=10.85 cfs 51,886 cf
Primary=9.72 cfs 41,877 cf Secondary=0.00 cfs 0 cf Outflow=9.72 cfs 41,877 cf

Pond 26P: Basin 2A Forebay Peak Elev=158.06' Storage=9,046 cf Inflow=7.19 cfs 43,027 cf
Primary=6.55 cfs 35,781 cf Secondary=0.00 cfs 0 cf Outflow=6.55 cfs 35,781 cf

Pond 38P: Basin 3 Forebay Peak Elev=145.74' Storage=6,478 cf Inflow=4.74 cfs 21,753 cf
Primary=3.60 cfs 16,295 cf Secondary=0.00 cfs 0 cf Outflow=3.60 cfs 16,295 cf

Pond 39P: Basin 4 Forebay Peak Elev=158.33' Storage=10,617 cf Inflow=6.16 cfs 38,292 cf
Primary=5.93 cfs 29,081 cf Secondary=0.00 cfs 0 cf Outflow=5.93 cfs 29,081 cf

Pond 43P: Basin 1B Bioretention	Peak Elev=157.76' Storage=21,931 cf	Inflow=9.99 cfs 46,549 cf Outflow=4.16 cfs 26,563 cf
Pond 44P: Basin 2A Bioretention	Peak Elev=157.67' Storage=24,083 cf	Inflow=7.22 cfs 42,579 cf Outflow=2.08 cfs 19,895 cf
Pond 45P: Basin 2A Infiltration	Peak Elev=152.55' Storage=44,550 cf	Inflow=7.41 cfs 44,552 cf Outflow=0.00 cfs 0 cf
Pond 46P: Basin 1B Infiltration	Peak Elev=150.35' Storage=41,645 cf	Inflow=4.70 cfs 41,645 cf Outflow=0.00 cfs 0 cf
Pond 48P: Basin 1A Infiltration Basin	Peak Elev=152.50' Storage=61,316 cf	Inflow=8.76 cfs 61,317 cf Outflow=0.00 cfs 0 cf
Pond 51P: Basin 4 Bioretention	Peak Elev=156.69' Storage=15,738 cf	Inflow=6.44 cfs 35,725 cf Outflow=2.67 cfs 21,203 cf
Pond 52P: Basin 4 Infiltration	Peak Elev=155.40' Storage=34,411 cf	Inflow=3.67 cfs 34,411 cf Outflow=0.00 cfs 0 cf
Pond 60P: Basin 3 Bioretention	Peak Elev=146.52' Storage=17,106 cf	Inflow=3.70 cfs 18,240 cf Outflow=0.14 cfs 1,260 cf
Pond 61P: Basin 3 Infiltration	Peak Elev=142.83' Storage=9,369 cf	Inflow=2.44 cfs 9,369 cf Outflow=0.00 cfs 0 cf
Pond 65P: Basin 2B Forebay	Peak Elev=158.67' Storage=4,490 cf	Inflow=2.25 cfs 29,546 cf Outflow=2.24 cfs 25,482 cf
Pond 66P: Basin 2B Infiltration Basin	Peak Elev=152.51' Storage=51,625 cf	Inflow=7.91 cfs 51,625 cf Outflow=0.00 cfs 0 cf

Total Runoff Area = 1,638,827 sf Runoff Volume = 356,318 cf Average Runoff Depth = 2.61"
64.86% Pervious = 1,062,927 sf 35.14% Impervious = 575,900 sf

Summary for Subcatchment 23S: Basin 1B

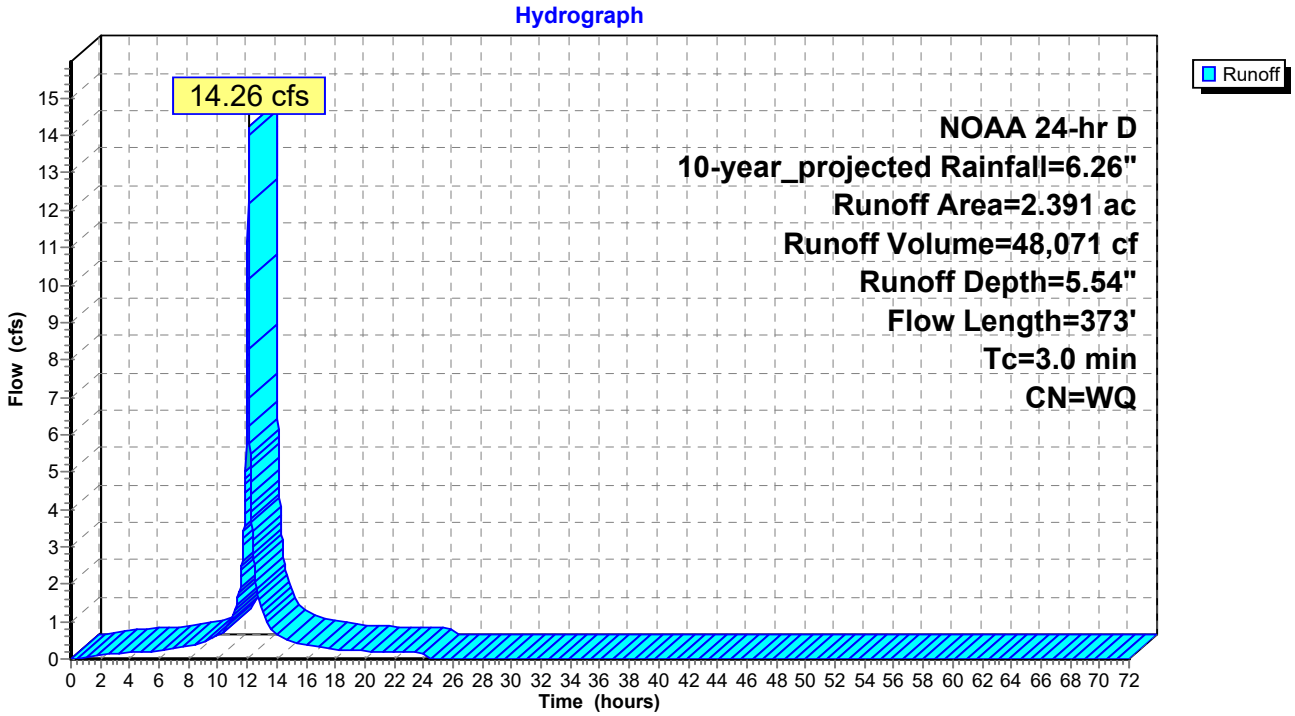
Runoff = 14.26 cfs @ 12.11 hrs, Volume= 48,071 cf, Depth= 5.54"
Routed to Reach 37R : DA1B Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
	0.210	39	>75% Grass cover, Good, HSG A
*	0.084	98	gravel road
*	2.097	98	compost/recycling area
	2.391		Weighted Average
	0.210	39	8.78% Pervious Area
	2.181	98	91.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0282	1.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
1.0	195	0.0282	3.41		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.1	78	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.0	373	Total			

Subcatchment 23S: Basin 1B



Summary for Subcatchment 24S: Basin 2A West

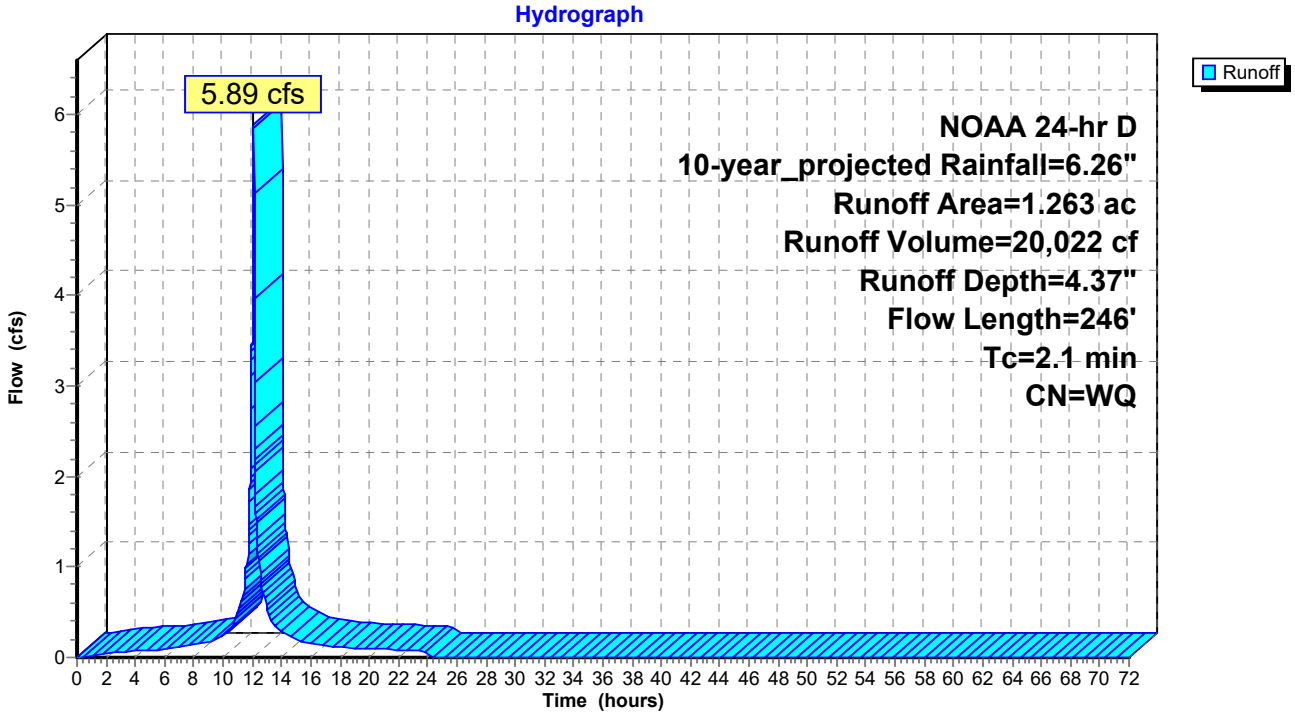
Runoff = 5.89 cfs @ 12.10 hrs, Volume= 20,022 cf, Depth= 4.37"
Routed to Reach 35R : DA2A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.380	39	grass cover
*	0.883	98	compost area
	1.263		Weighted Average
	0.380	39	30.09% Pervious Area
	0.883	98	69.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0303	1.82		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.4	85	0.0303	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.8	61	0.0309	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	246	Total			

Subcatchment 24S: Basin 2A West



Summary for Subcatchment 25S: Basin 2A East

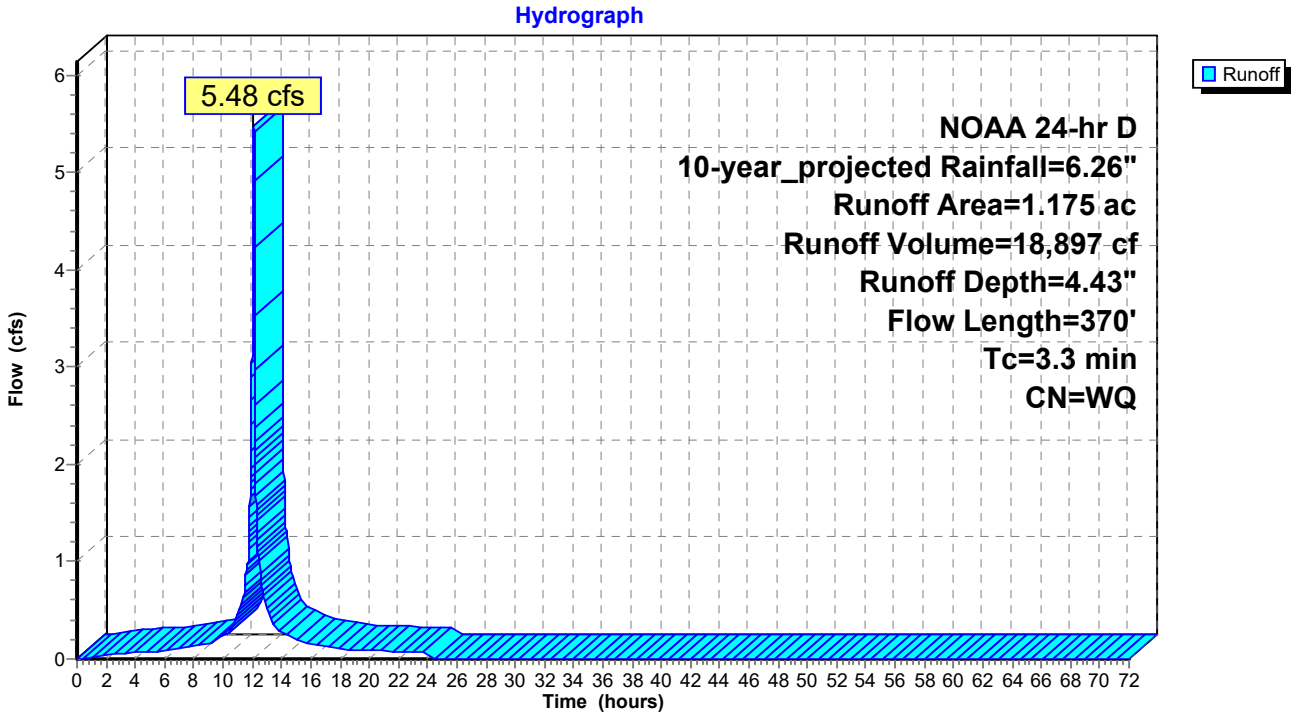
Runoff = 5.48 cfs @ 12.11 hrs, Volume= 18,897 cf, Depth= 4.43"
Routed to Reach 36R : DA2A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.223	98	gravel road
*	0.612	98	compost area
*	0.340	39	grass cover
	1.175		Weighted Average
	0.340	39	28.94% Pervious Area
	0.835	98	71.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0300	1.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.6	136	0.0302	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	134	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	370	Total			

Subcatchment 25S: Basin 2A East



Summary for Subcatchment 29S: Basin 2B West

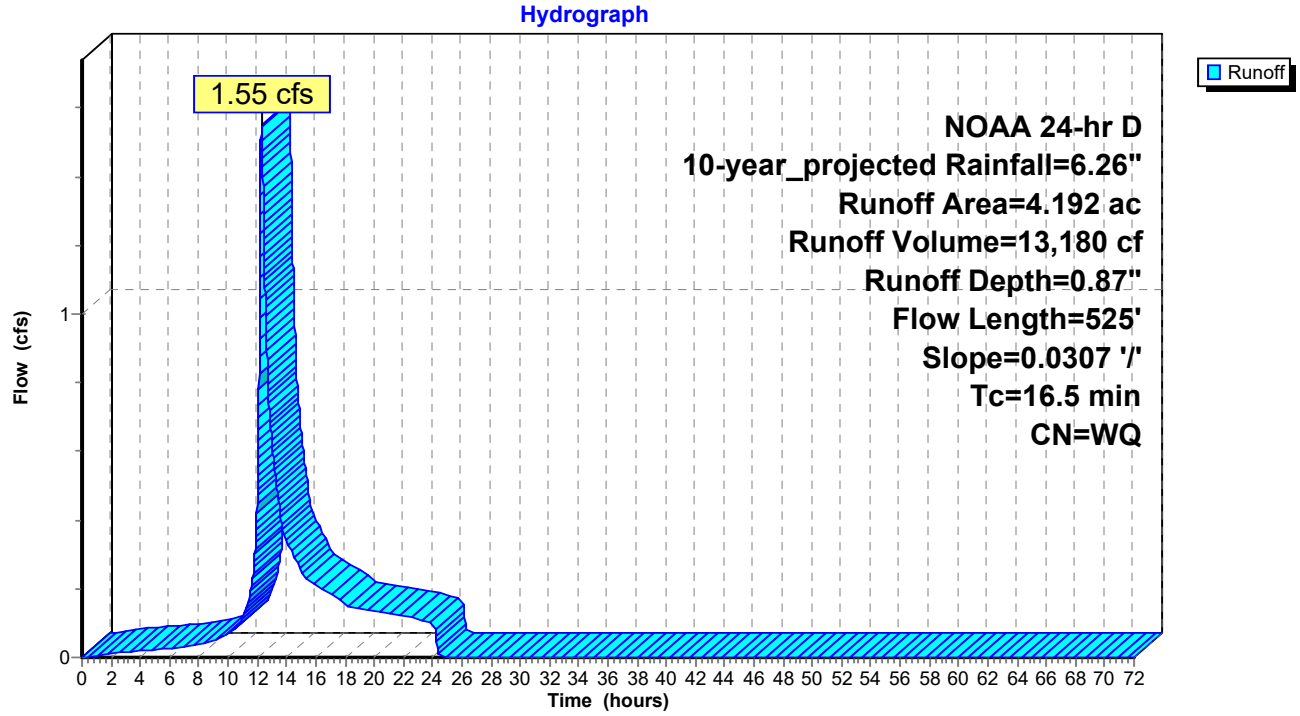
Runoff = 1.55 cfs @ 12.30 hrs, Volume= 13,180 cf, Depth= 0.87"
Routed to Reach 33R : DA2B West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
	3.930	39	>75% Grass cover, Good, HSG A
*	0.262	98	Solar
	4.192		Weighted Average
	3.930	39	93.75% Pervious Area
	0.262	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	100	0.0307	0.16		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.8	425	0.0307	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.5	525	Total			

Subcatchment 29S: Basin 2B West



Summary for Subcatchment 30S: Basin 1A Central

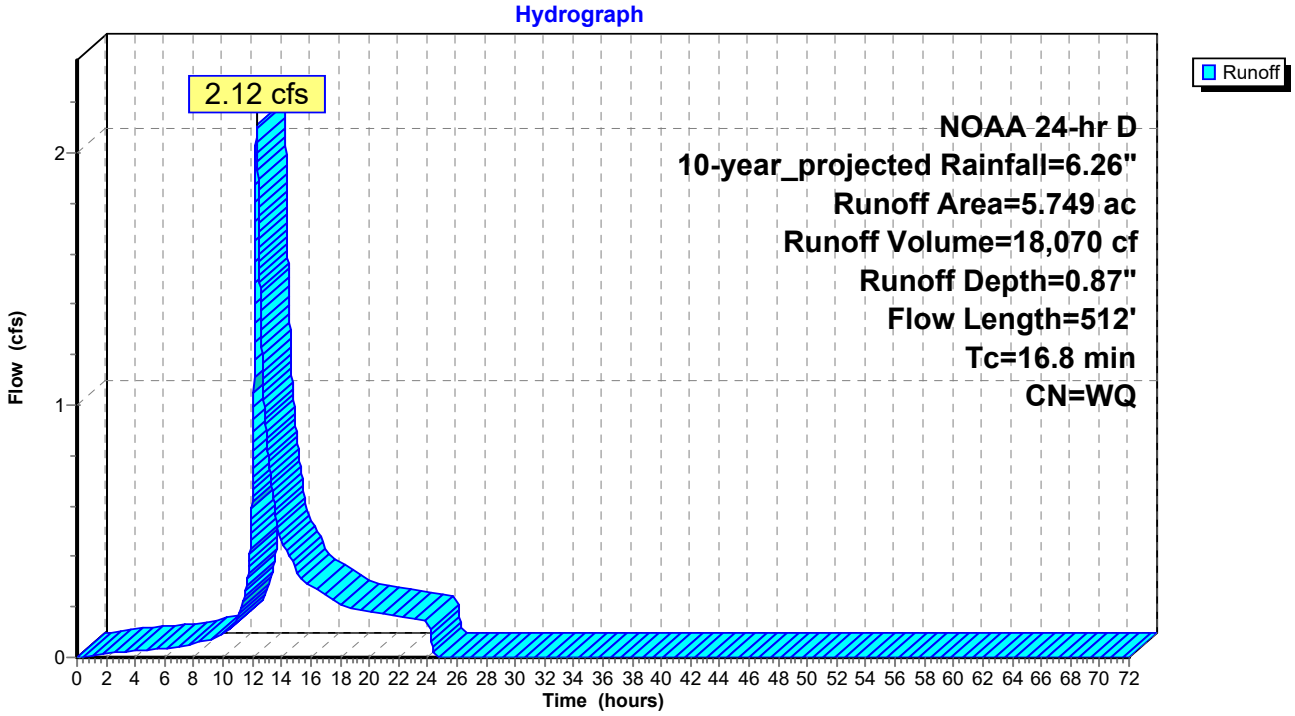
Runoff = 2.12 cfs @ 12.30 hrs, Volume= 18,070 cf, Depth= 0.87"
Routed to Reach 30R : DA1A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.359	98	solar
*	5.390	39	grass
	5.749		Weighted Average
	5.390	39	93.76% Pervious Area
	0.359	98	6.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	100	0.0291	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.8	412	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.8	512	Total			

Subcatchment 30S: Basin 1A Central



Summary for Subcatchment 31S: Basin 2B East

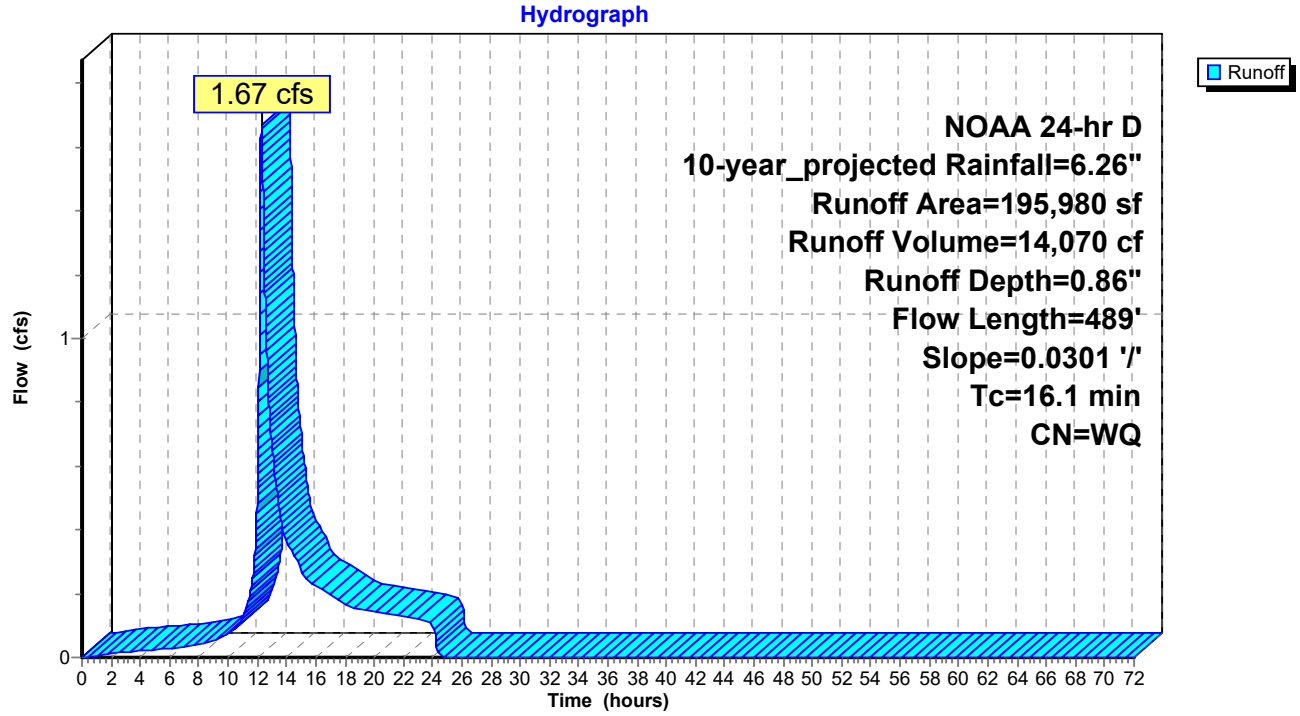
Runoff = 1.67 cfs @ 12.29 hrs, Volume= 14,070 cf, Depth= 0.86"
Routed to Reach 31R : DA2B East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (sf)	CN	Description
	183,896	39	>75% Grass cover, Good, HSG A
*	12,084	98	Solar
	195,980		Weighted Average
	183,896	39	93.83% Pervious Area
	12,084	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0301	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.3	389	0.0301	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.1	489	Total			

Subcatchment 31S: Basin 2B East



Summary for Subcatchment 32S: undeveloped run on to forebay

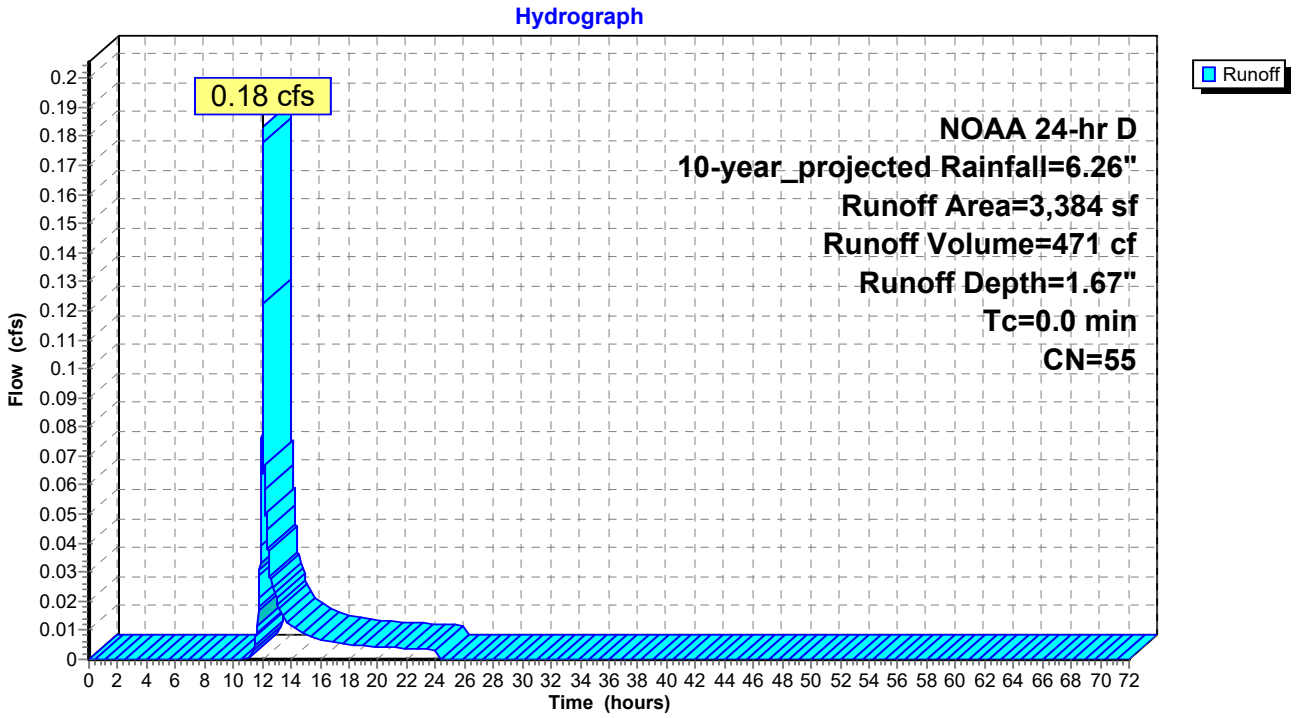
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 471 cf, Depth= 1.67"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (sf)	CN	Description
*	3,384	55	
	3,384	55	100.00% Pervious Area

Subcatchment 32S: undeveloped run on to forebay



Summary for Subcatchment 33S: undeveloped run on to bioretention

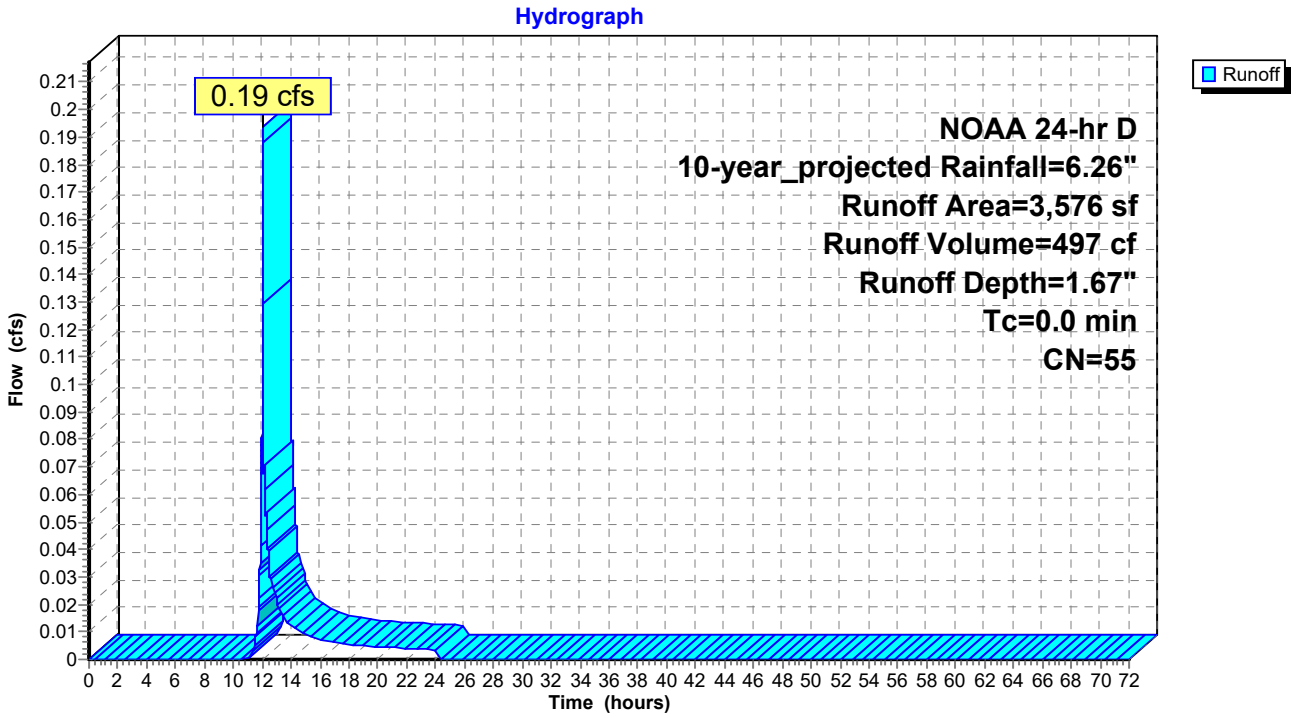
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.19 cfs @ 12.09 hrs, Volume= 497 cf, Depth= 1.67"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (sf)	CN	Description
*	3,576	55	
	3,576	55	100.00% Pervious Area

Subcatchment 33S: undeveloped run on to bioretention



Summary for Subcatchment 37S: Basin 3

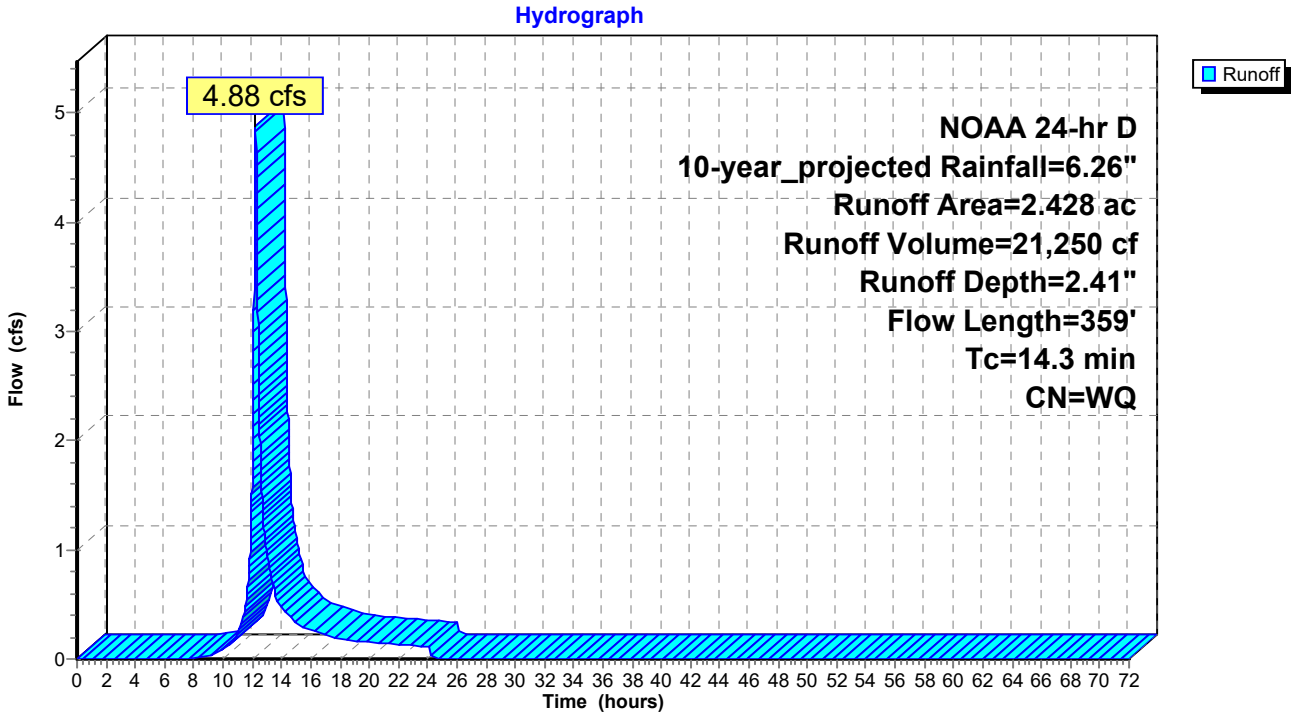
Runoff = 4.88 cfs @ 12.22 hrs, Volume= 21,250 cf, Depth= 2.41"
Routed to Reach 38R : DA3 Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.720	39	grass
*	1.708	72	sand
	2.428		Weighted Average
	2.428	62	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	35	0.5455	0.40		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
7.5	65	0.0321	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
3.4	107	0.0055	0.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	152	0.0066	1.31		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
14.3	359	Total			

Subcatchment 37S: Basin 3



Summary for Subcatchment 39S: Basin 1A East

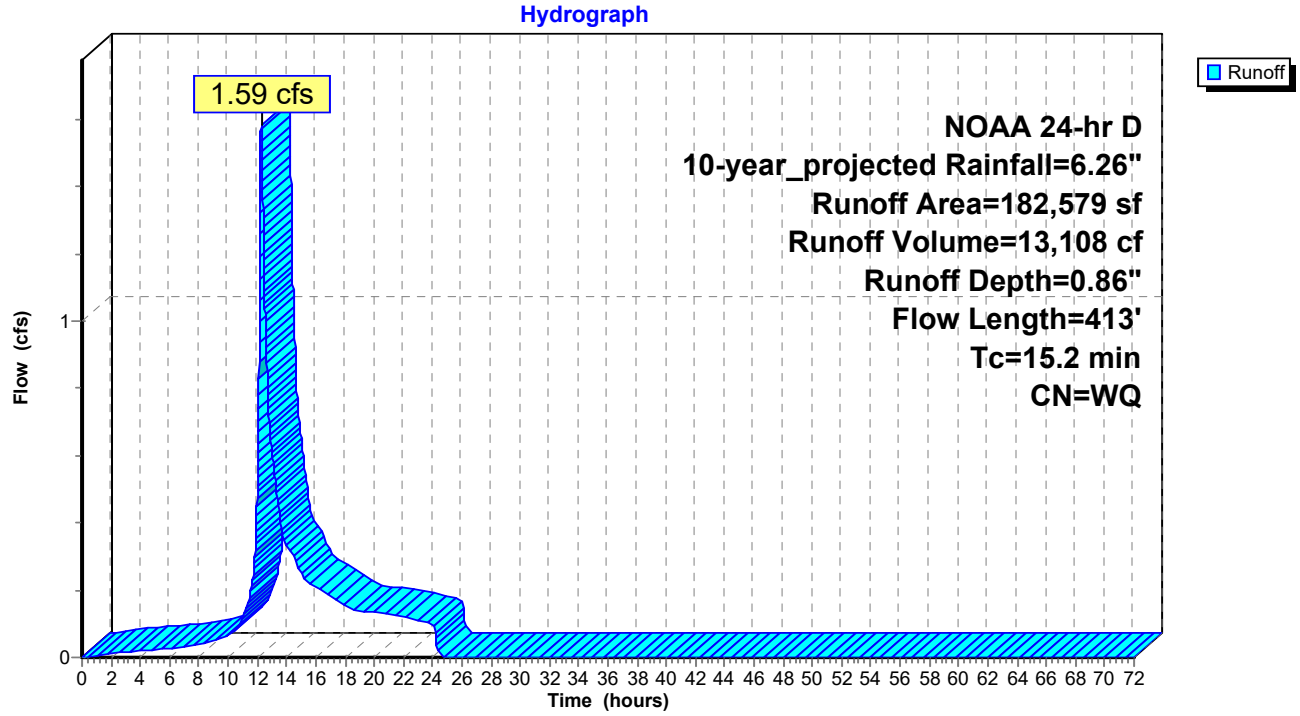
Runoff = 1.59 cfs @ 12.28 hrs, Volume= 13,108 cf, Depth= 0.86"
Routed to Reach 29R : DA1A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (sf)	CN	Description
	171,321	39	>75% Grass cover, Good, HSG A
*	11,258	98	Solar
	182,579		Weighted Average
	171,321	39	93.83% Pervious Area
	11,258	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0299	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
4.3	313	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.2	413	Total			

Subcatchment 39S: Basin 1A East



Summary for Subcatchment 40S: Basin 1A West

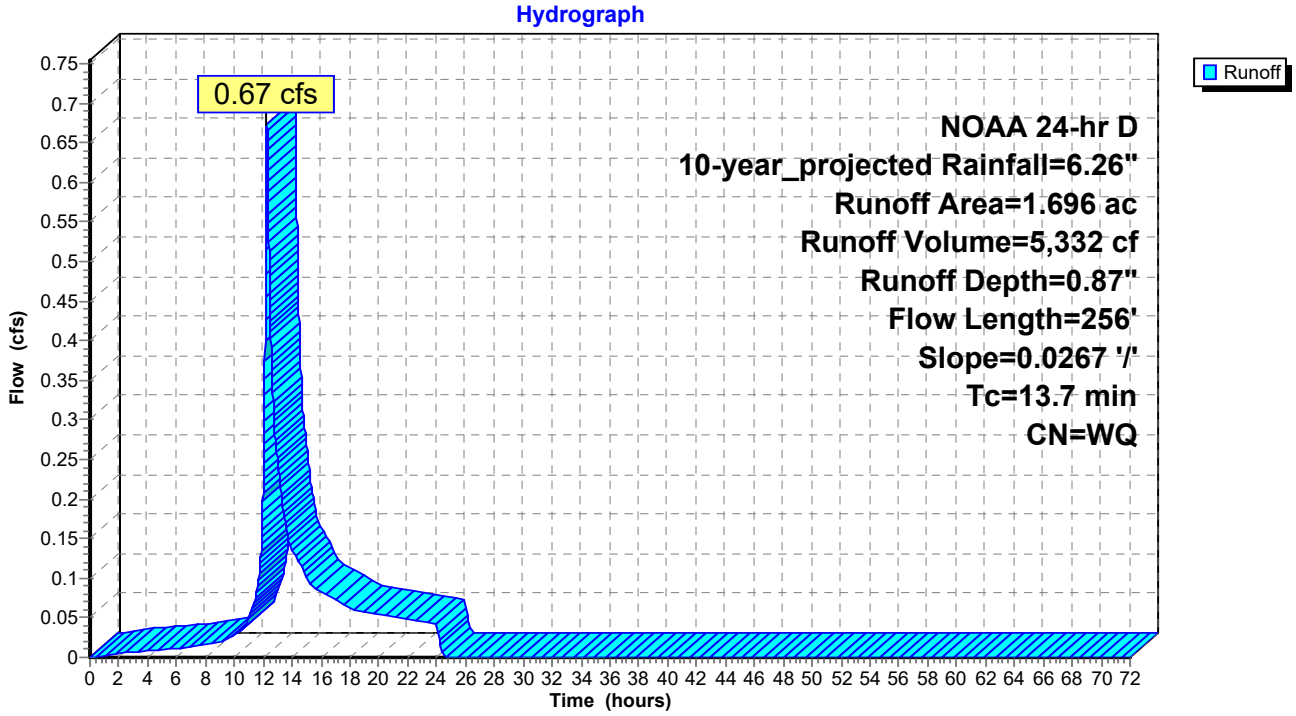
Runoff = 0.67 cfs @ 12.25 hrs, Volume= 5,332 cf, Depth= 0.87"
Routed to Reach 39R : DA 1A Central Swale A

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
	1.590	39	>75% Grass cover, Good, HSG A
*	0.106	98	Solar
	1.696		Weighted Average
	1.590	39	93.75% Pervious Area
	0.106	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.4	100	0.0267	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
2.3	156	0.0267	1.14		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
13.7	256	Total			

Subcatchment 40S: Basin 1A West



Summary for Subcatchment 41S: Basin 4 East

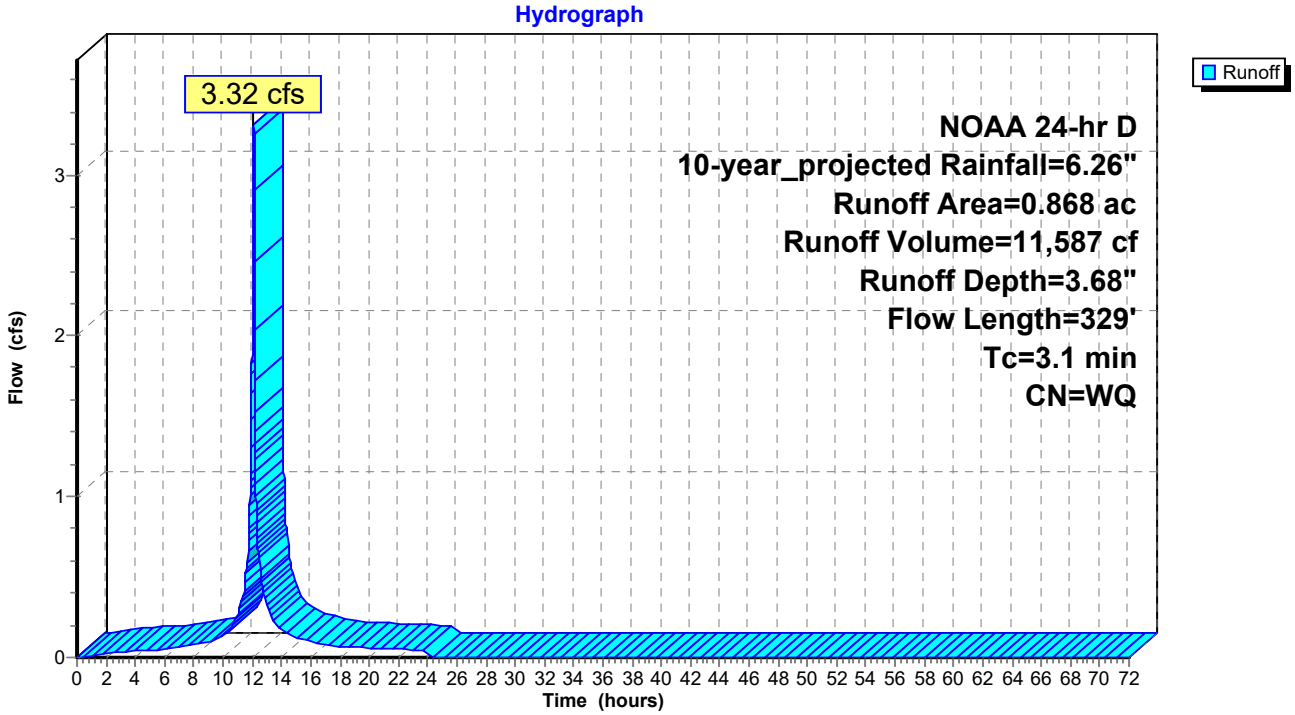
Runoff = 3.32 cfs @ 12.11 hrs, Volume= 11,587 cf, Depth= 3.68"
Routed to Reach 42R : DA4 East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.498	98	salt storage area
*	0.370	39	grass cover
	0.868		Weighted Average
	0.370	39	42.63% Pervious Area
	0.498	98	57.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0296	1.80		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.4	90	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	139	0.0325	1.26		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.1	329	Total			

Subcatchment 41S: Basin 4 East



Summary for Subcatchment 42S: Basin 4 West

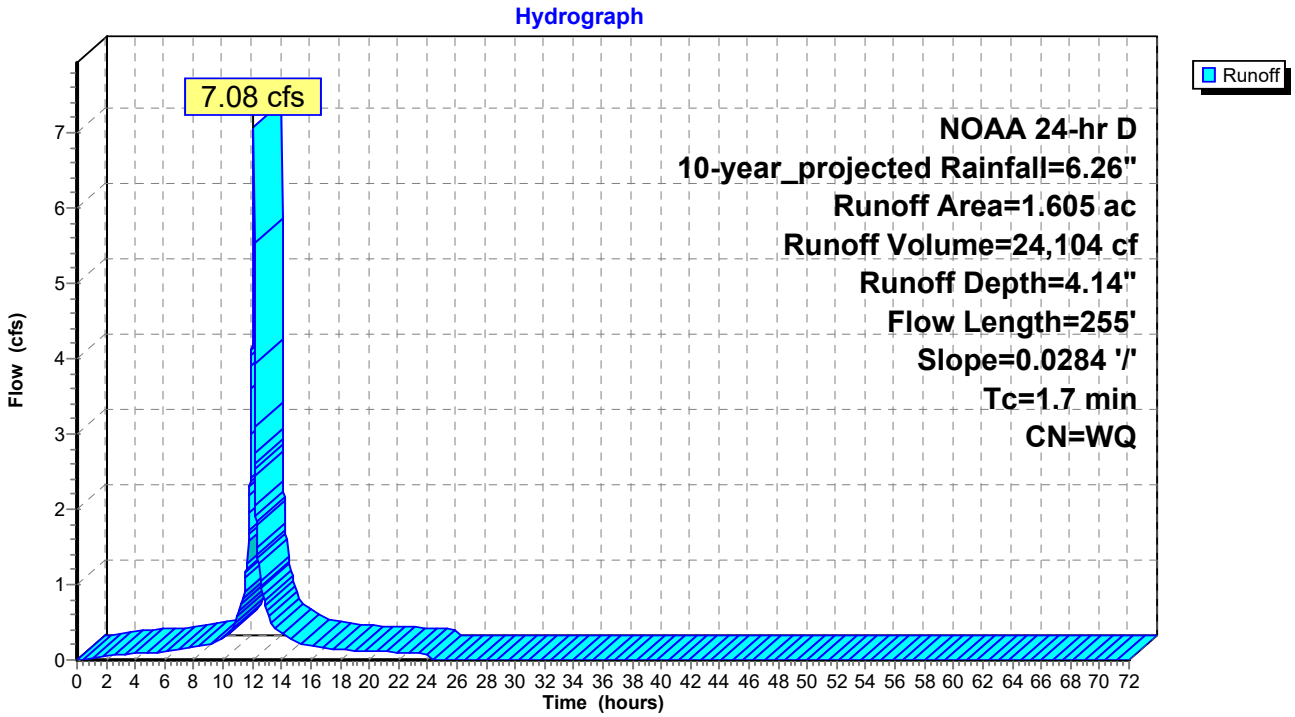
Runoff = 7.08 cfs @ 12.10 hrs, Volume= 24,104 cf, Depth= 4.14"
Routed to Reach 34R : DA4 West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.237	98	gravel road
*	0.818	98	compost/recycling area
*	0.550	39	grass cover
	1.605		Weighted Average
	0.550	39	34.27% Pervious Area
	1.055	98	65.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0284	1.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.8	155	0.0284	3.42		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.7	255	Total			

Subcatchment 42S: Basin 4 West



Summary for Subcatchment 46S: Direct Rainfall Basin 2A Bioretention

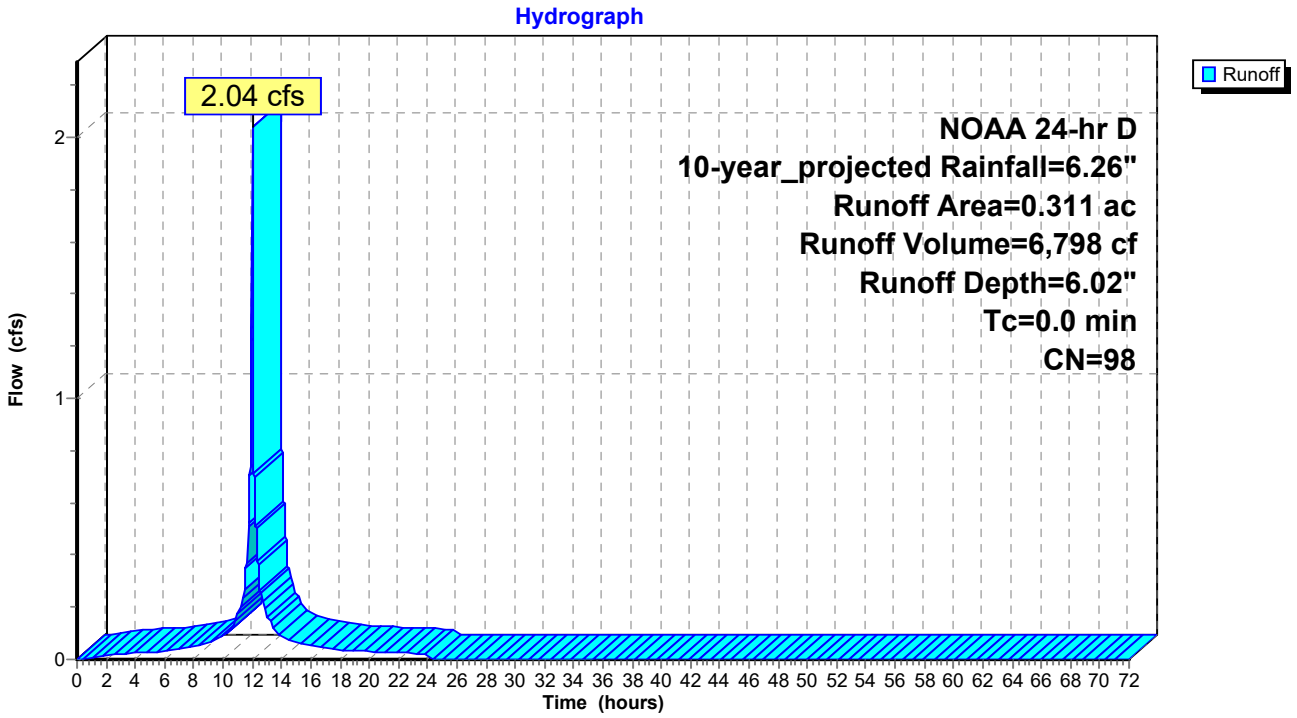
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.04 cfs @ 12.09 hrs, Volume= 6,798 cf, Depth= 6.02"
Routed to Pond 44P : Basin 2A Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.311	98	Direct Rainfall
	0.311	98	100.00% Impervious Area

Subcatchment 46S: Direct Rainfall Basin 2A Bioretention



Summary for Subcatchment 47S: Direct Rainfall Basin 2A Infiltration

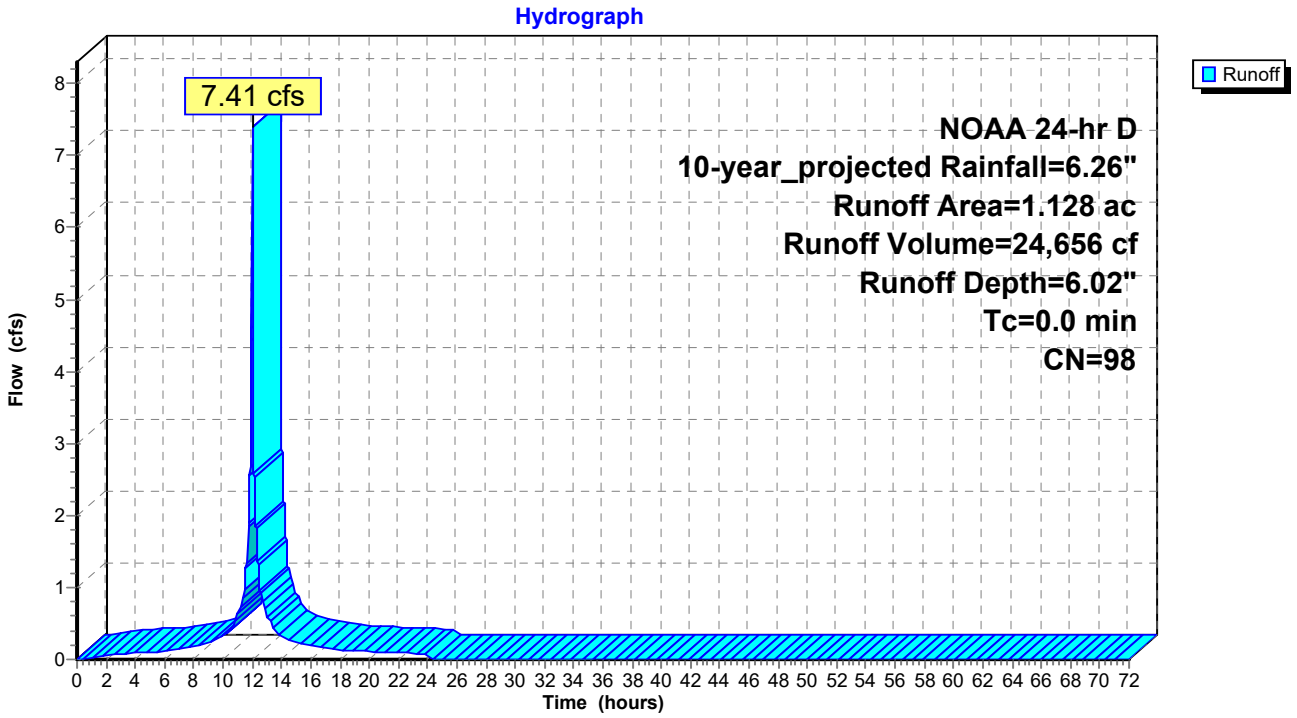
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 7.41 cfs @ 12.09 hrs, Volume= 24,656 cf, Depth= 6.02"
Routed to Pond 45P : Basin 2A Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	1.128	98	Direct Rainfall
	1.128	98	100.00% Impervious Area

Subcatchment 47S: Direct Rainfall Basin 2A Infiltration



Summary for Subcatchment 48S: Direct Rainfall Basin 1B Bioretention

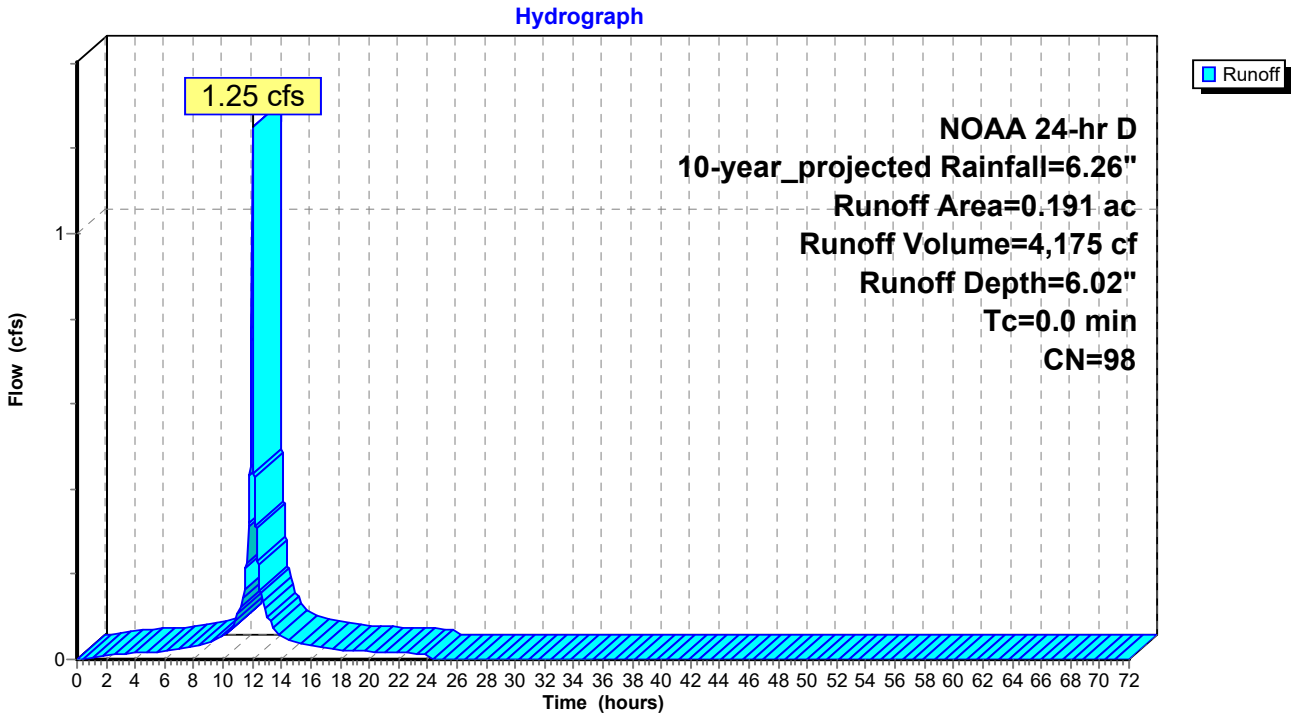
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.25 cfs @ 12.09 hrs, Volume= 4,175 cf, Depth= 6.02"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.191	98	direct rainfall onto bioretention
	0.191	98	100.00% Impervious Area

Subcatchment 48S: Direct Rainfall Basin 1B Bioretention



Summary for Subcatchment 49S: Direct Rainfall Basin 1A Infiltration

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

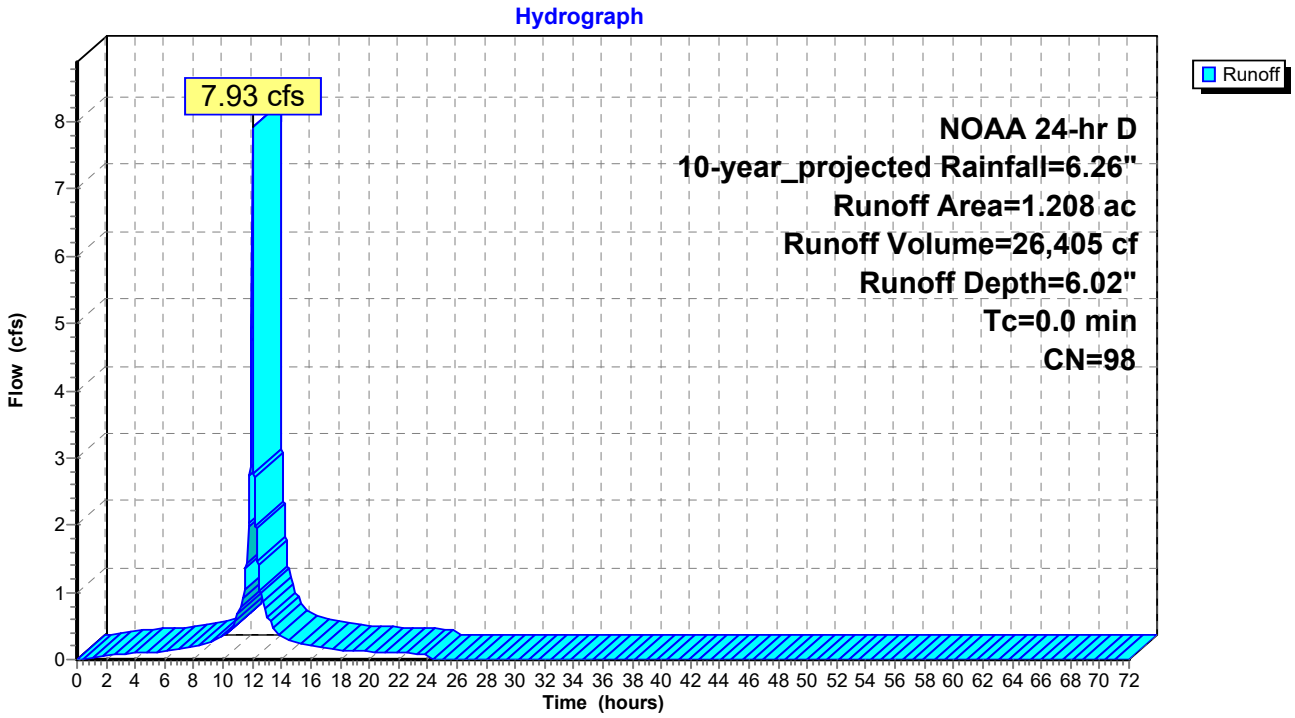
Runoff = 7.93 cfs @ 12.09 hrs, Volume= 26,405 cf, Depth= 6.02"
Routed to Pond 48P : Basin 1A Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	1.208	98	
	1.208	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					**Direct Entry,**

Subcatchment 49S: Direct Rainfall Basin 1A Infiltration



Summary for Subcatchment 50S: Direct Rainfall Basin 1B Infiltration

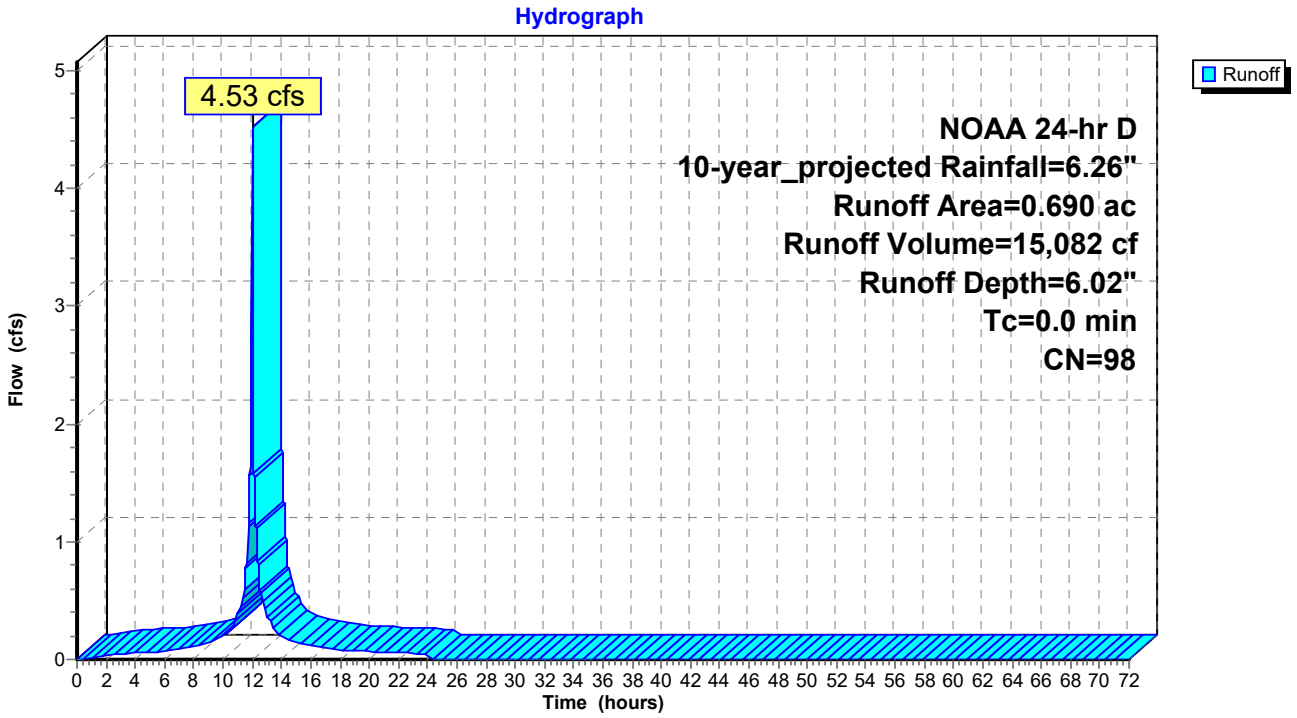
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 4.53 cfs @ 12.09 hrs, Volume= 15,082 cf, Depth= 6.02"
Routed to Pond 46P : Basin 1B Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.690	98	direct rainfall
	0.690	98	100.00% Impervious Area

Subcatchment 50S: Direct Rainfall Basin 1B Infiltration



Summary for Subcatchment 52S: Direct Rainfall Basin 1A Forebay

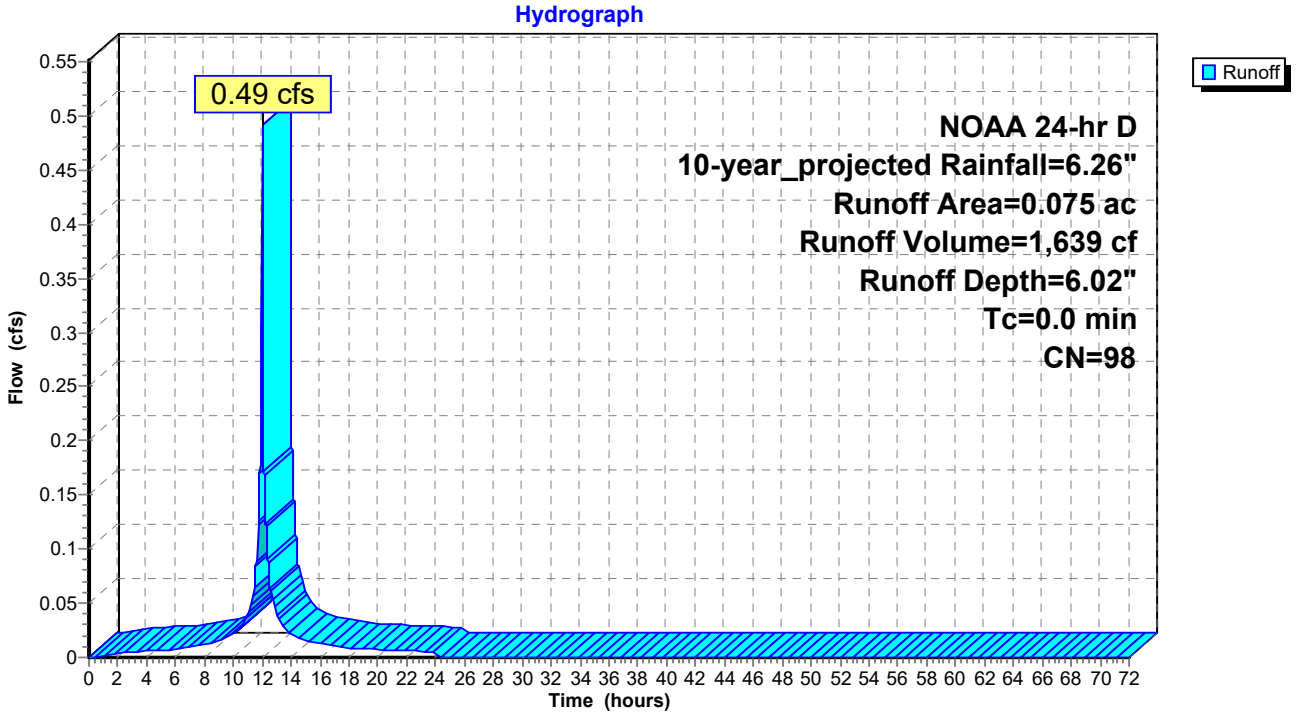
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.49 cfs @ 12.09 hrs, Volume= 1,639 cf, Depth= 6.02"
Routed to Pond 15P : Basin 1A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.075	98	direct rainfall
	0.075	98	100.00% Impervious Area

Subcatchment 52S: Direct Rainfall Basin 1A Forebay



Summary for Subcatchment 54S: Direct Rainfall Basin 2A forebay

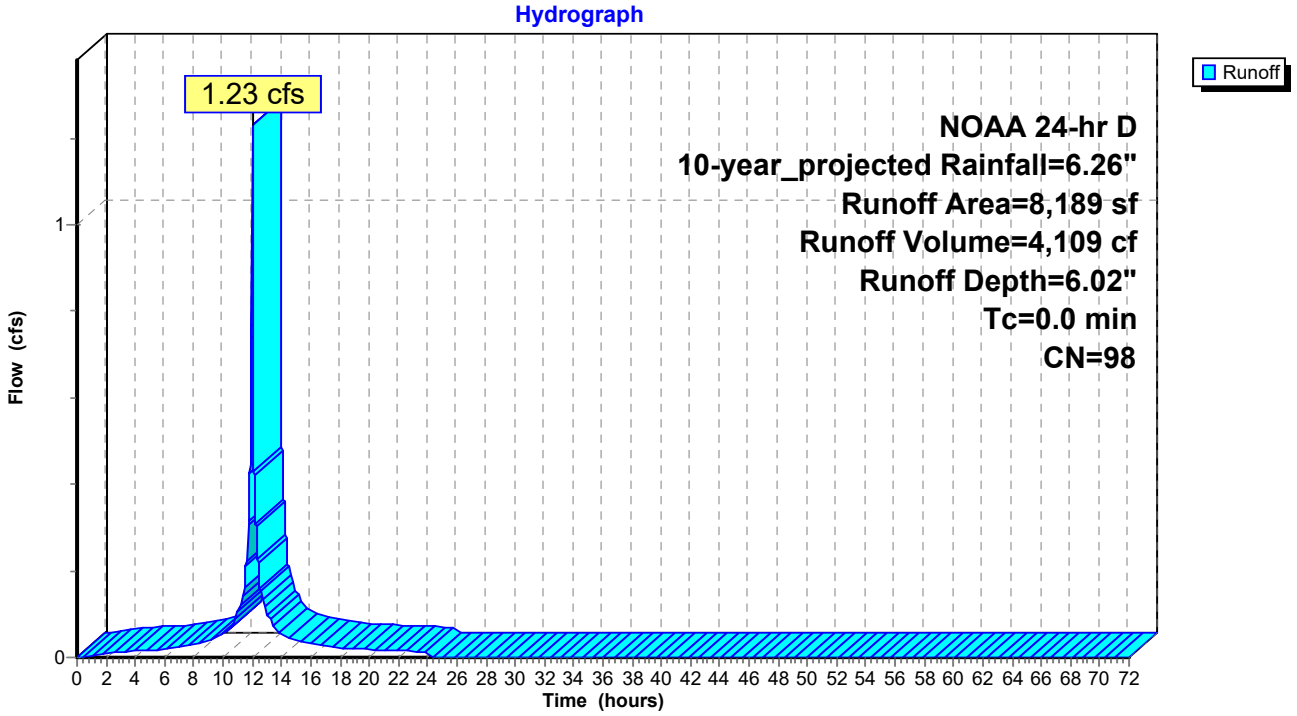
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.23 cfs @ 12.09 hrs, Volume= 4,109 cf, Depth= 6.02"
Routed to Pond 26P : Basin 2A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (sf)	CN	Description
*	8,189	98	direct rainfall to forebay
	8,189	98	100.00% Impervious Area

Subcatchment 54S: Direct Rainfall Basin 2A forebay



Summary for Subcatchment 55S: Direct Rainfall Basin 3 Forebay

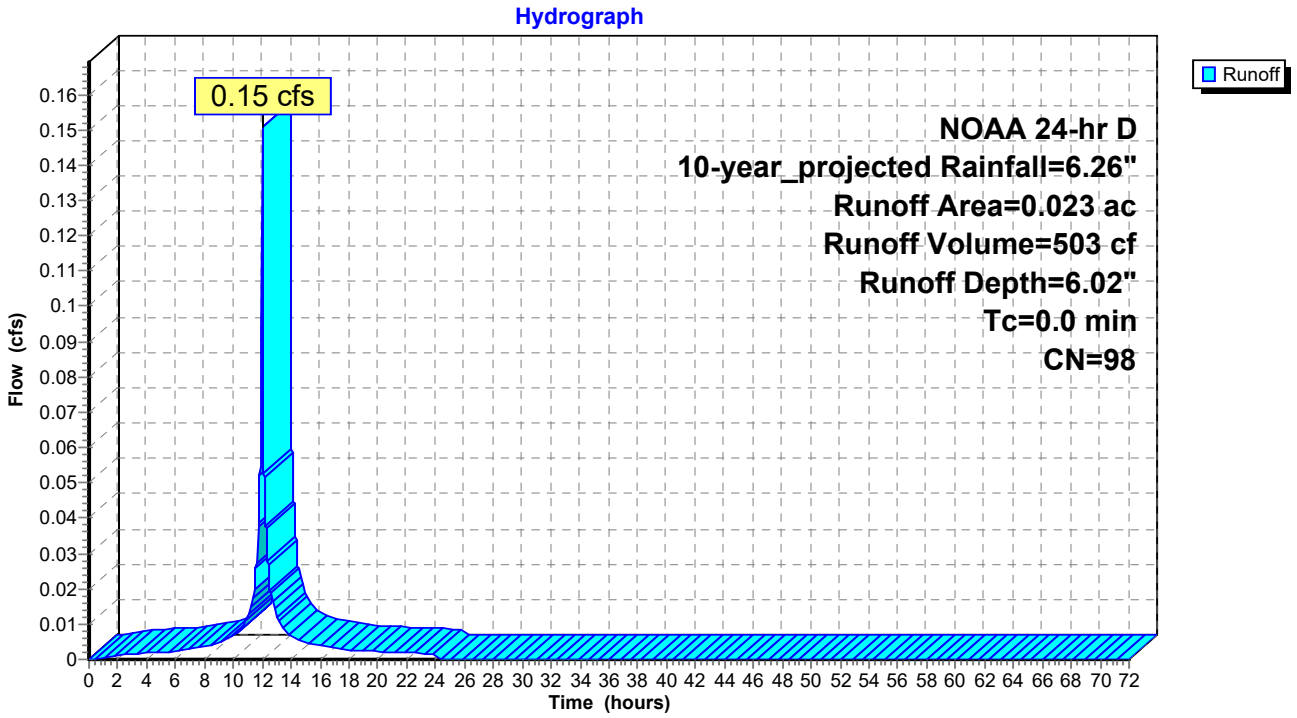
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.15 cfs @ 12.09 hrs, Volume= 503 cf, Depth= 6.02"
Routed to Pond 38P : Basin 3 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.023	98	direct rainfall
	0.023	98	100.00% Impervious Area

Subcatchment 55S: Direct Rainfall Basin 3 Forebay



Summary for Subcatchment 56S: Direct Rainfall Basin 1B Forebay

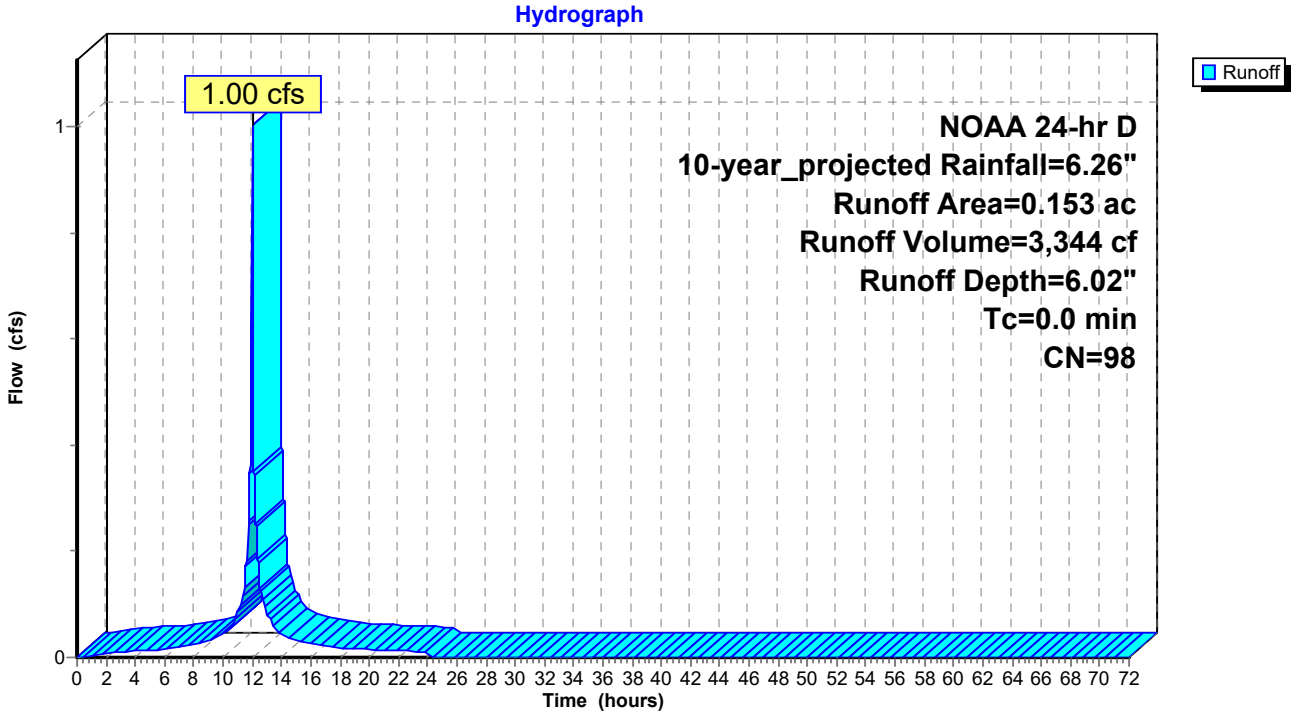
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.00 cfs @ 12.09 hrs, Volume= 3,344 cf, Depth= 6.02"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.153	98	direct rainfall
	0.153	98	100.00% Impervious Area

Subcatchment 56S: Direct Rainfall Basin 1B Forebay



Summary for Subcatchment 57S: Direct Rainfall Basin 4 Forebay

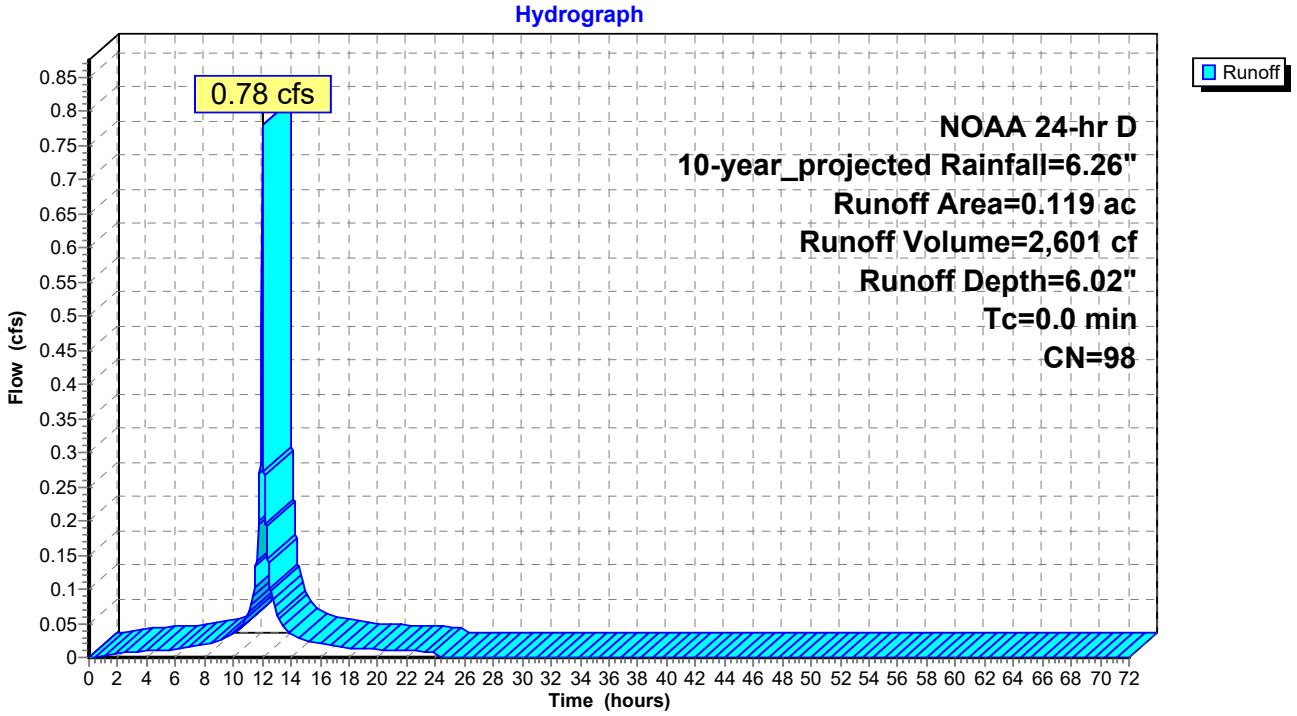
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.78 cfs @ 12.09 hrs, Volume= 2,601 cf, Depth= 6.02"
Routed to Pond 39P : Basin 4 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.119	98	direct rainfall
	0.119	98	100.00% Impervious Area

Subcatchment 57S: Direct Rainfall Basin 4 Forebay



Summary for Subcatchment 58S: Direct forest undeveloped runoff to basin

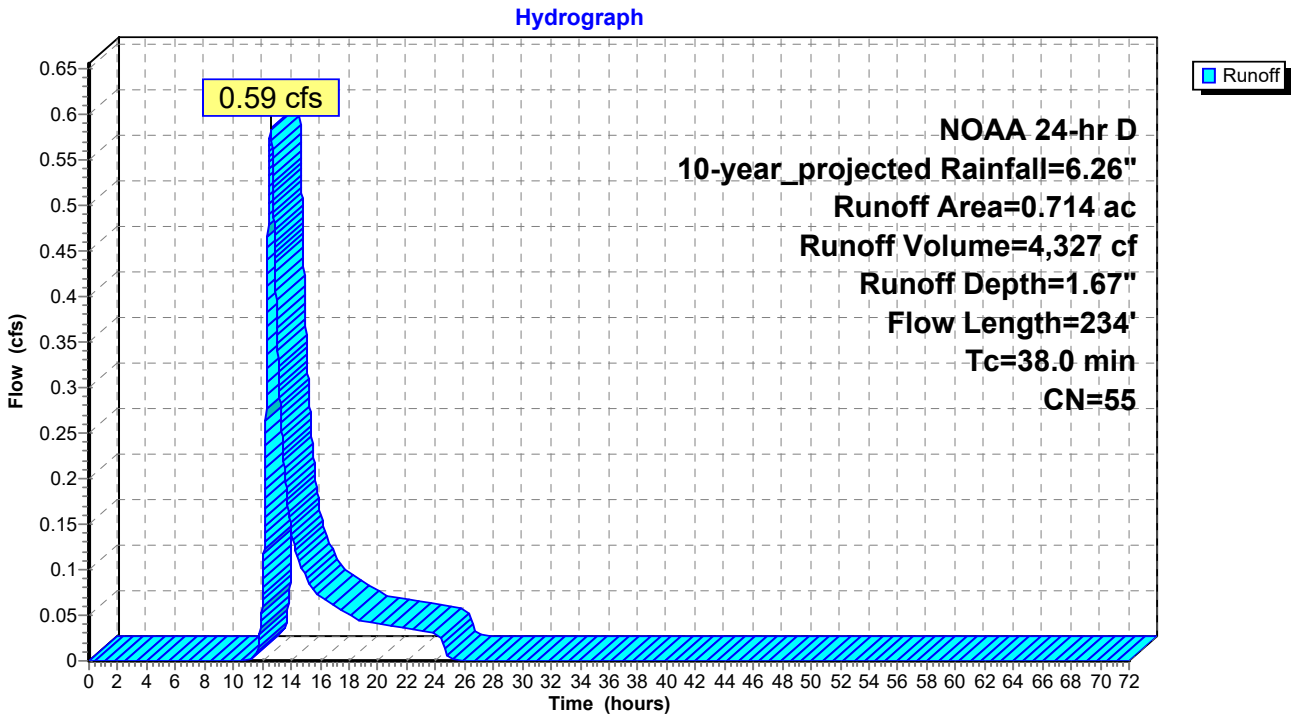
Runoff = 0.59 cfs @ 12.58 hrs, Volume= 4,327 cf, Depth= 1.67"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

Area (ac)	CN	Description
0.714	55	Woods, Good, HSG B
0.714	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
33.4	100	0.0200	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 4.01"
4.6	134	0.0370	0.48		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
38.0	234	Total			

Subcatchment 58S: Direct forest undeveloped runoff to basin



Summary for Subcatchment 59S: Direct Rainfall Basin 4 Infiltration

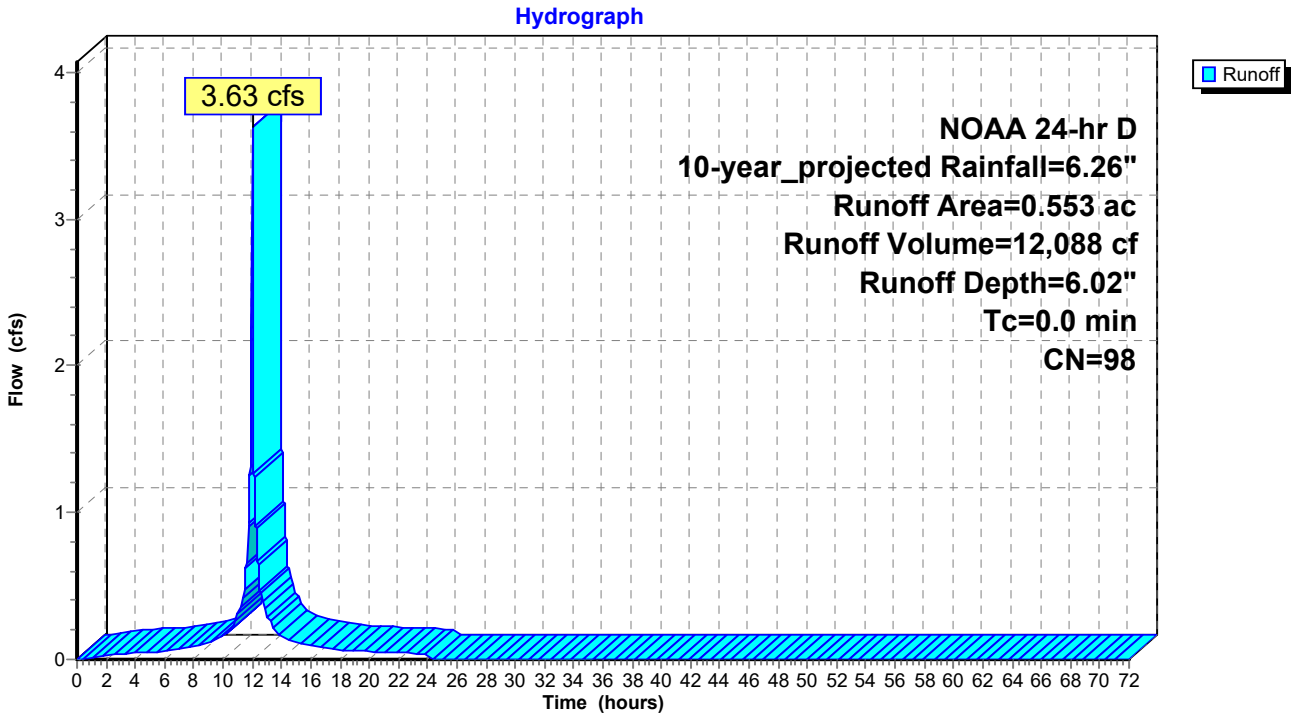
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.63 cfs @ 12.09 hrs, Volume= 12,088 cf, Depth= 6.02"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.553	98	direct rainfall
	0.553	98	100.00% Impervious Area

Subcatchment 59S: Direct Rainfall Basin 4 Infiltration



Summary for Subcatchment 62S: Direct Rainfall Basin 3 Infiltration

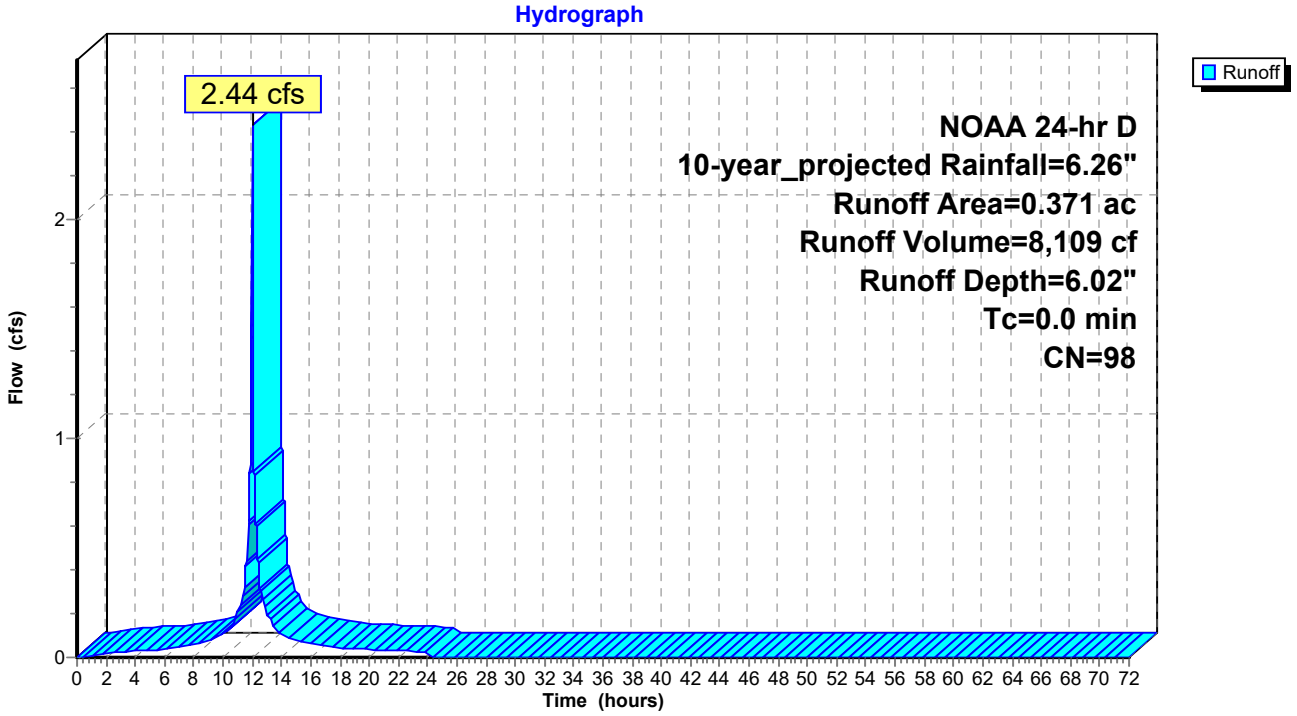
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.44 cfs @ 12.09 hrs, Volume= 8,109 cf, Depth= 6.02"
Routed to Pond 61P : Basin 3 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.371	98	
	0.371	98	100.00% Impervious Area

Subcatchment 62S: Direct Rainfall Basin 3 Infiltration



Summary for Subcatchment 65S: Direct Rainfall Basin 3 Bioretention

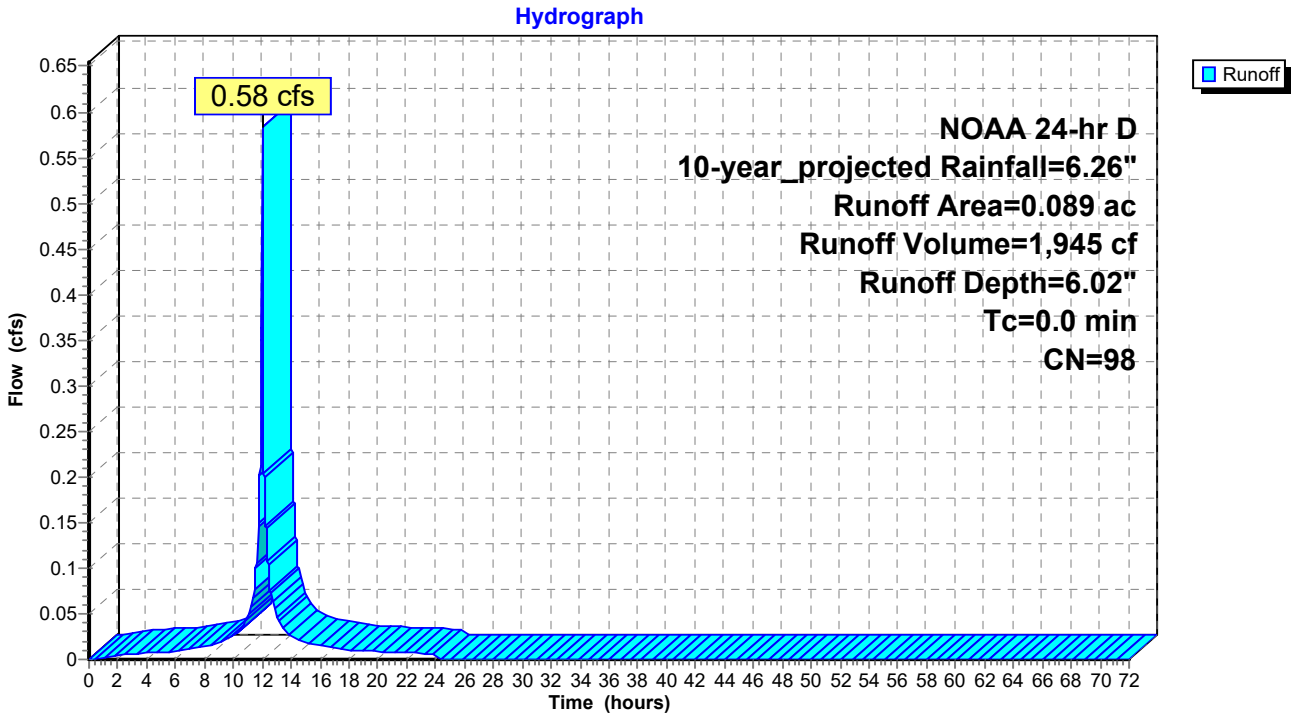
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 1,945 cf, Depth= 6.02"
Routed to Pond 60P : Basin 3 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.089	98	
	0.089	98	100.00% Impervious Area

Subcatchment 65S: Direct Rainfall Basin 3 Bioretention



Summary for Subcatchment 69S: Direct Rainfall Basin 2B Forebay

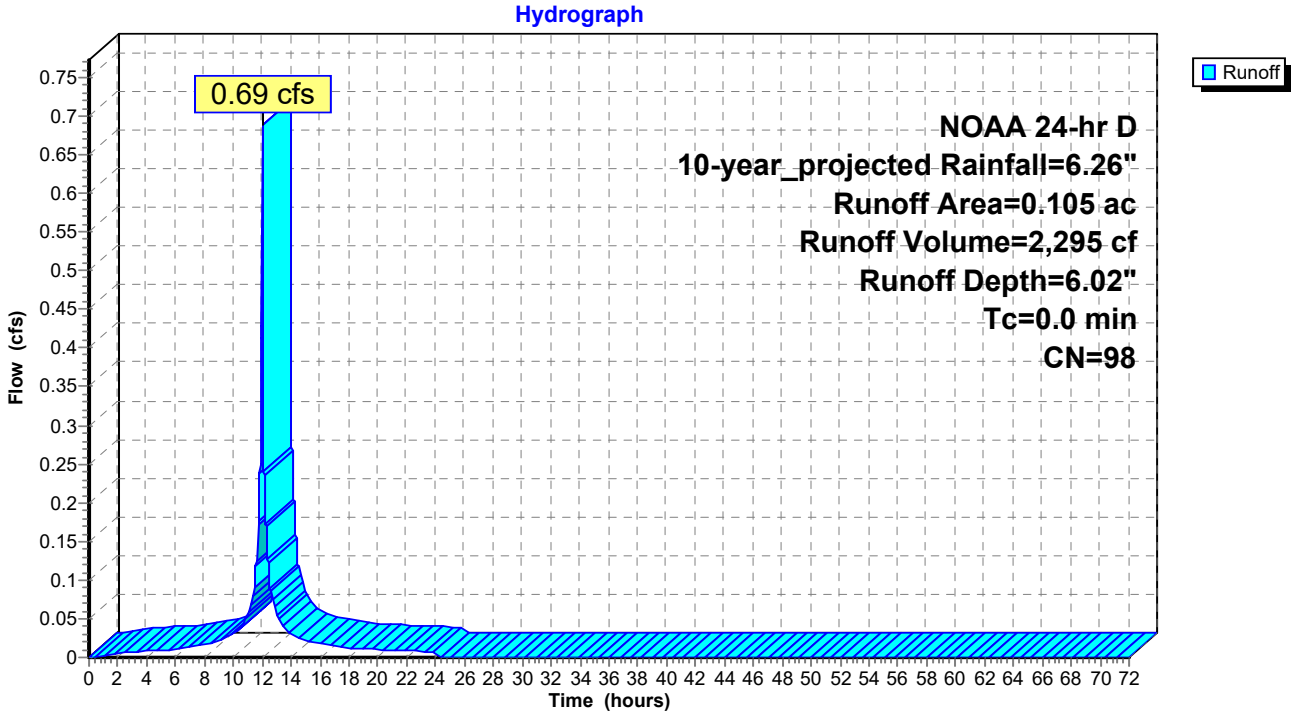
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.69 cfs @ 12.09 hrs, Volume= 2,295 cf, Depth= 6.02"
Routed to Pond 65P : Basin 2B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.105	98	direct rainfall
	0.105	98	100.00% Impervious Area

Subcatchment 69S: Direct Rainfall Basin 2B Forebay



Summary for Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin

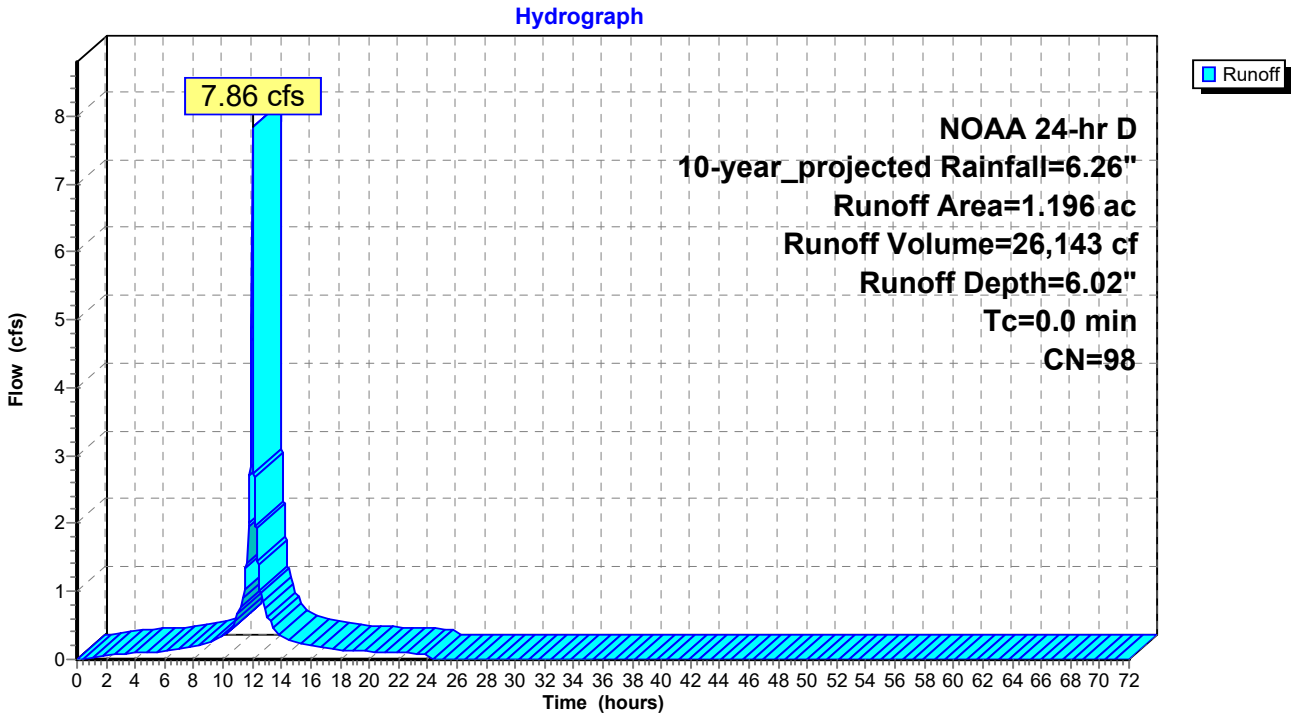
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 7.86 cfs @ 12.09 hrs, Volume= 26,143 cf, Depth= 6.02"
Routed to Pond 66P : Basin 2B Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	1.196	98	direct rainfall
	1.196	98	100.00% Impervious Area

Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin



Summary for Subcatchment 71S: Direct Rainfall to Bioretention

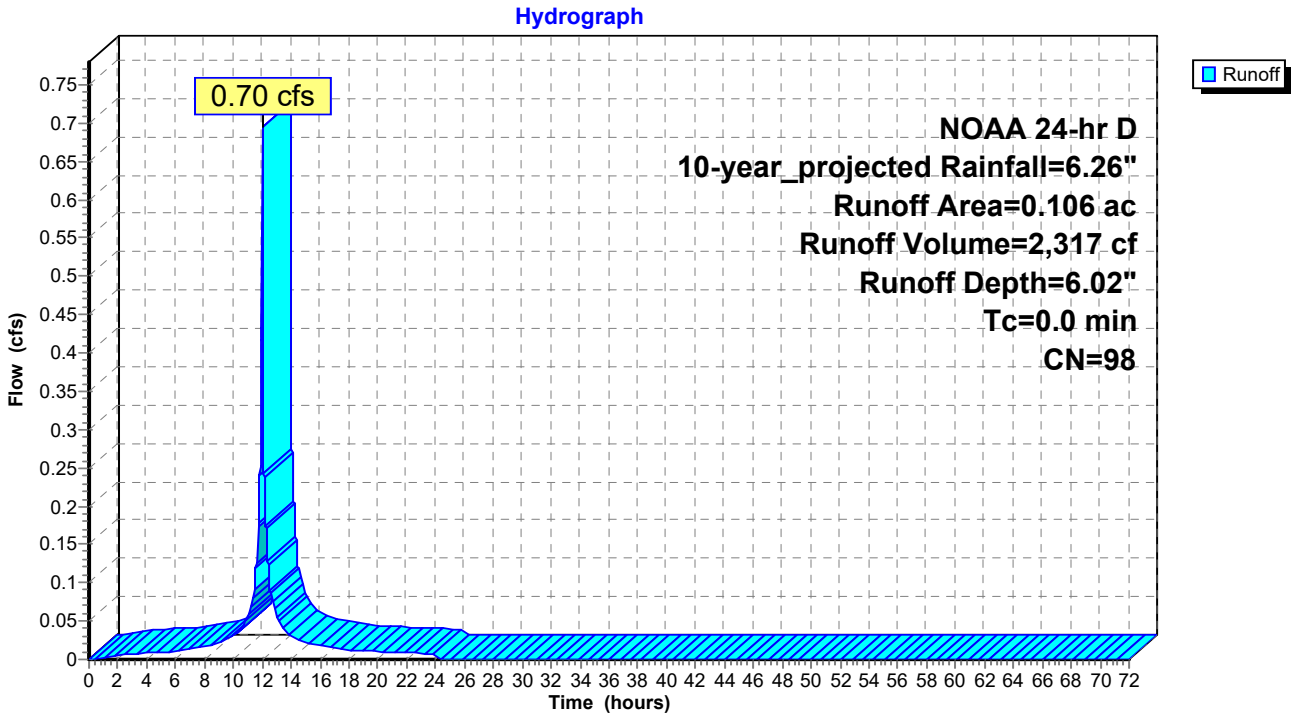
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.70 cfs @ 12.09 hrs, Volume= 2,317 cf, Depth= 6.02"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.106	98	direct rainfall to bioretention
	0.106	98	100.00% Impervious Area

Subcatchment 71S: Direct Rainfall to Bioretention



Summary for Subcatchment 74S: Direct forest runoff to infiltration basin

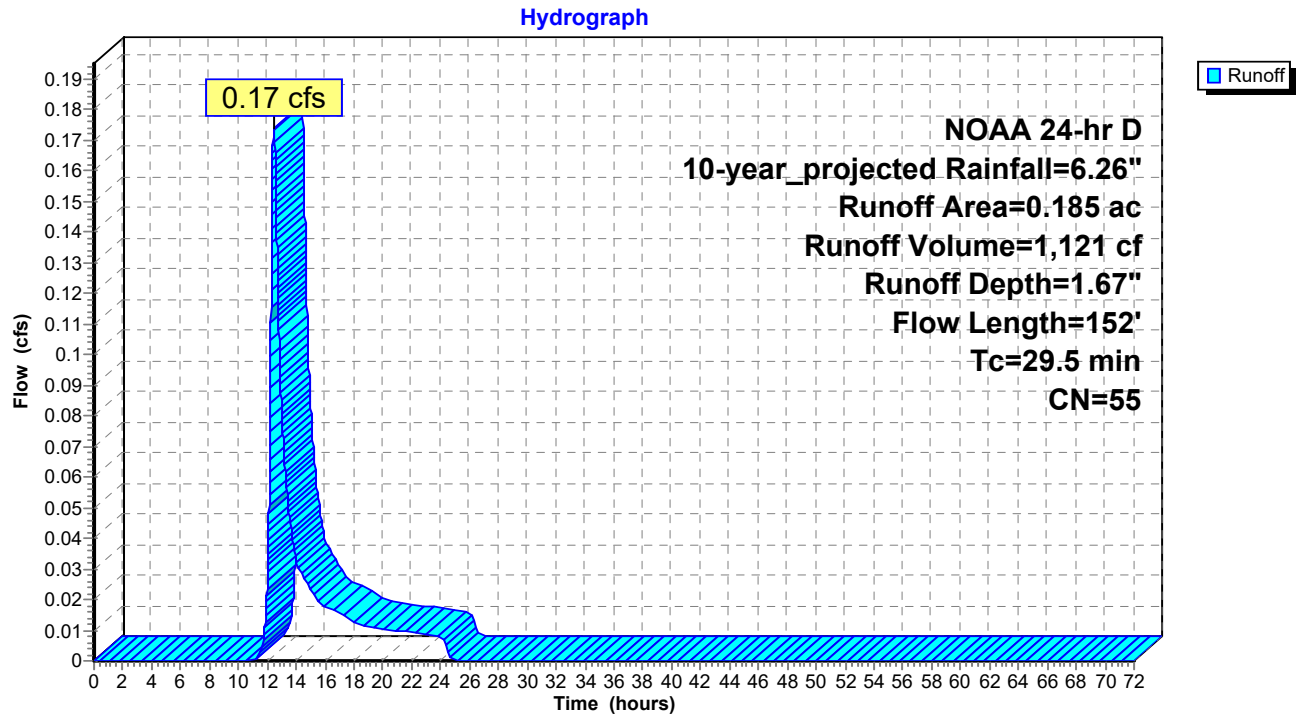
Runoff = 0.17 cfs @ 12.45 hrs, Volume= 1,121 cf, Depth= 1.67"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

Area (ac)	CN	Description
0.185	55	Woods, Good, HSG B
0.185	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.4	100	0.0300	0.06		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 4.01"
1.1	52	0.1000	0.79		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
29.5	152	Total			

Subcatchment 74S: Direct forest runoff to infiltration basin



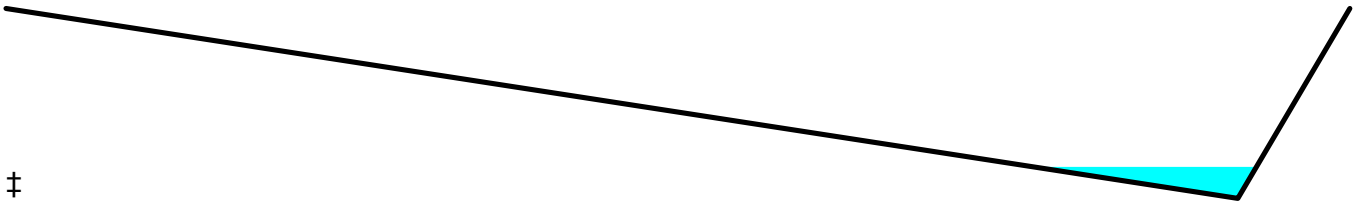
Summary for Reach 29R: DA1A East Swale

Inflow Area = 182,579 sf, 6.17% Impervious, Inflow Depth = 0.86" for 10-year_projected event
Inflow = 1.59 cfs @ 12.28 hrs, Volume= 13,108 cf
Outflow = 0.95 cfs @ 13.07 hrs, Volume= 13,108 cf, Atten= 40%, Lag= 47.4 min
Routed to Pond 15P : Basin 1A Forebay

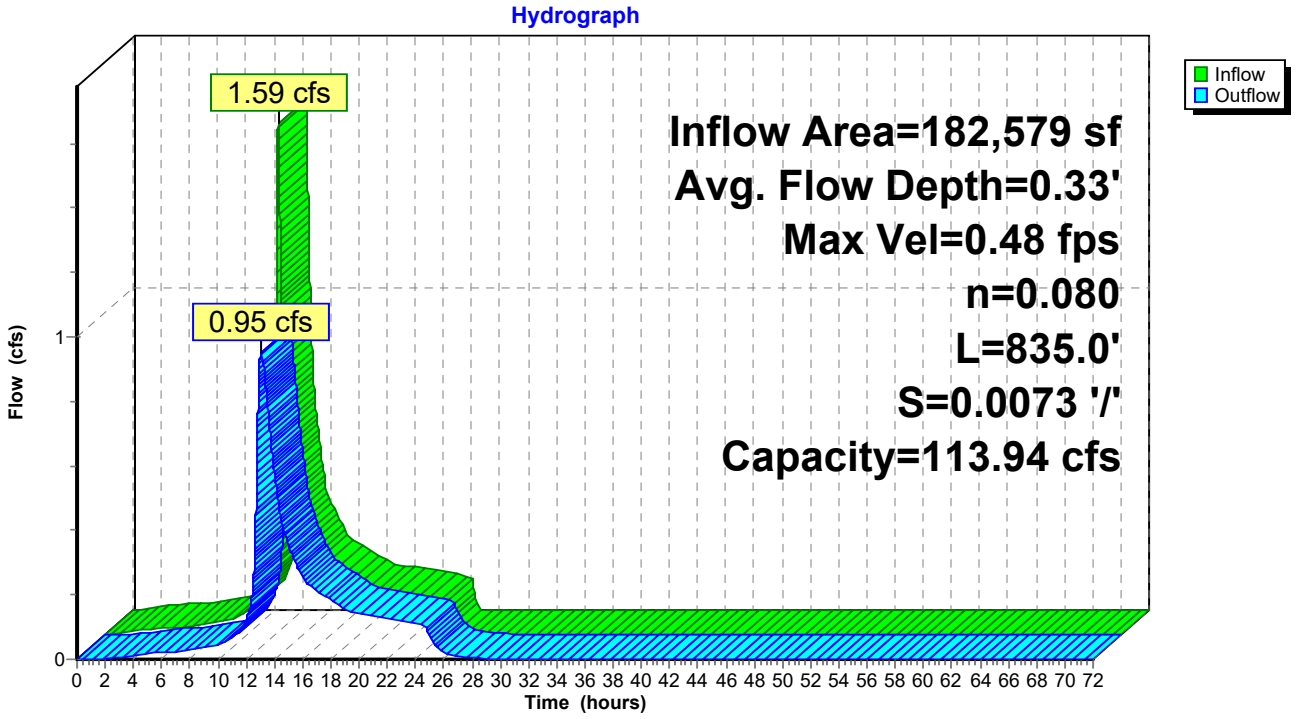
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.48 fps, Min. Travel Time= 29.1 min
Avg. Velocity = 0.19 fps, Avg. Travel Time= 74.9 min

Peak Storage= 1,659 cf @ 12.58 hrs
Average Depth at Peak Storage= 0.33' , Surface Width= 11.96'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 113.94 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 835.0' Slope= 0.0073 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡



Summary for Reach 30R: DA1A West Swale

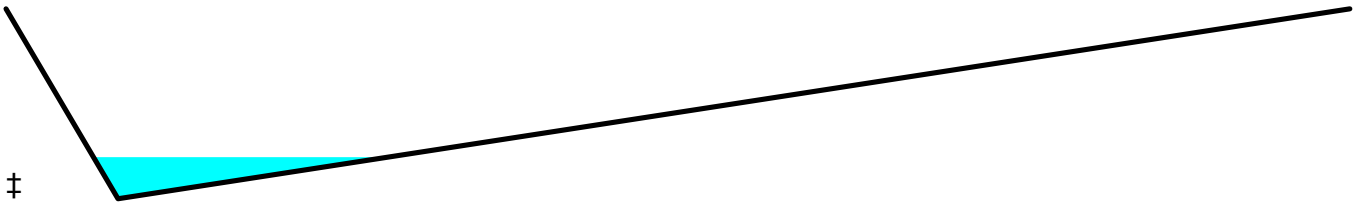
[62] Hint: Exceeded Reach 41R OUTLET depth by 0.21' @ 12.43 hrs

Inflow Area = 324,304 sf, 6.25% Impervious, Inflow Depth = 0.87" for 10-year_projected event
Inflow = 2.19 cfs @ 12.30 hrs, Volume= 23,402 cf
Outflow = 1.44 cfs @ 13.06 hrs, Volume= 23,402 cf, Atten= 34%, Lag= 45.4 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.42 fps, Min. Travel Time= 26.0 min
Avg. Velocity = 0.15 fps, Avg. Travel Time= 70.0 min

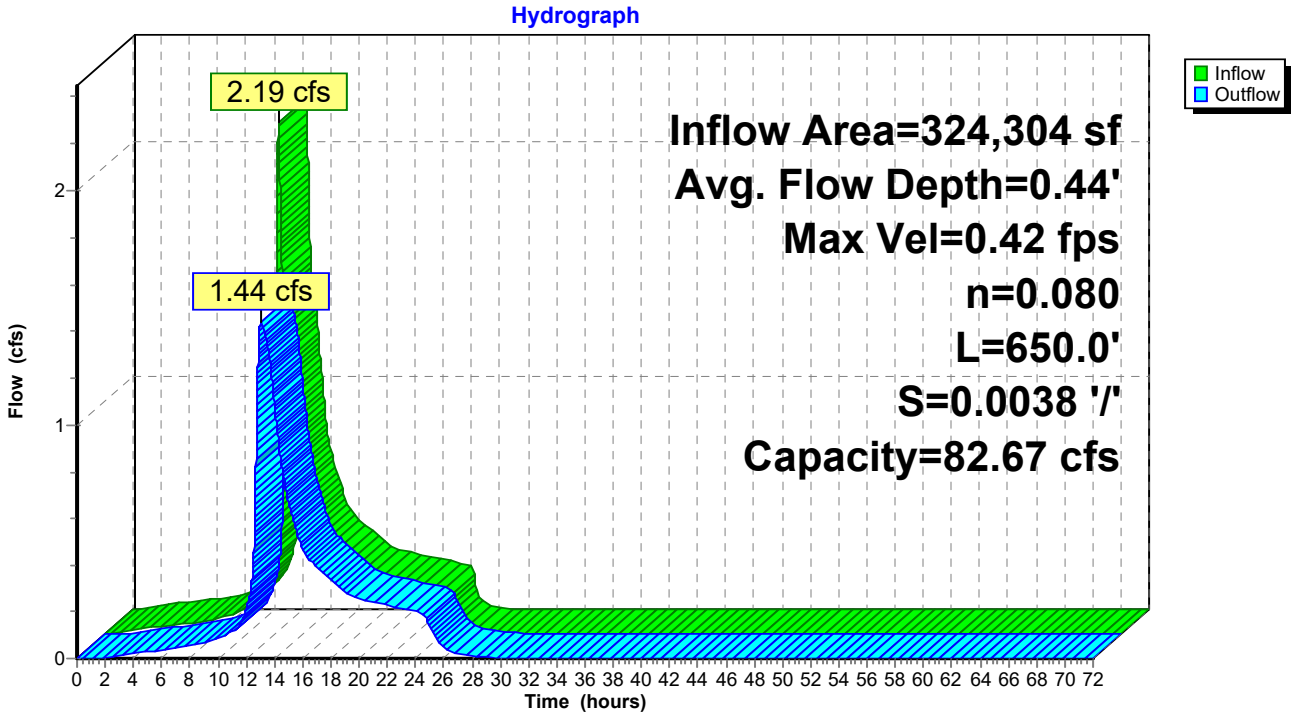
Peak Storage= 2,247 cf @ 12.62 hrs
Average Depth at Peak Storage= 0.44' , Surface Width= 15.77'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 82.67 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 650.0' Slope= 0.0038 '/'
Inlet Invert= 162.50', Outlet Invert= 160.00'



‡

Reach 30R: DA1A West Swale



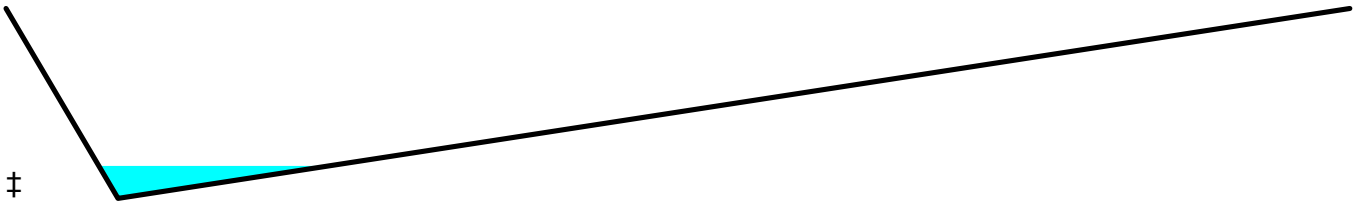
Summary for Reach 31R: DA2B East Swale

Inflow Area = 195,980 sf, 6.17% Impervious, Inflow Depth = 0.86" for 10-year_projected event
Inflow = 1.67 cfs @ 12.29 hrs, Volume= 14,070 cf
Outflow = 1.10 cfs @ 12.94 hrs, Volume= 14,070 cf, Atten= 34%, Lag= 39.1 min
Routed to Pond 65P : Basin 2B Forebay

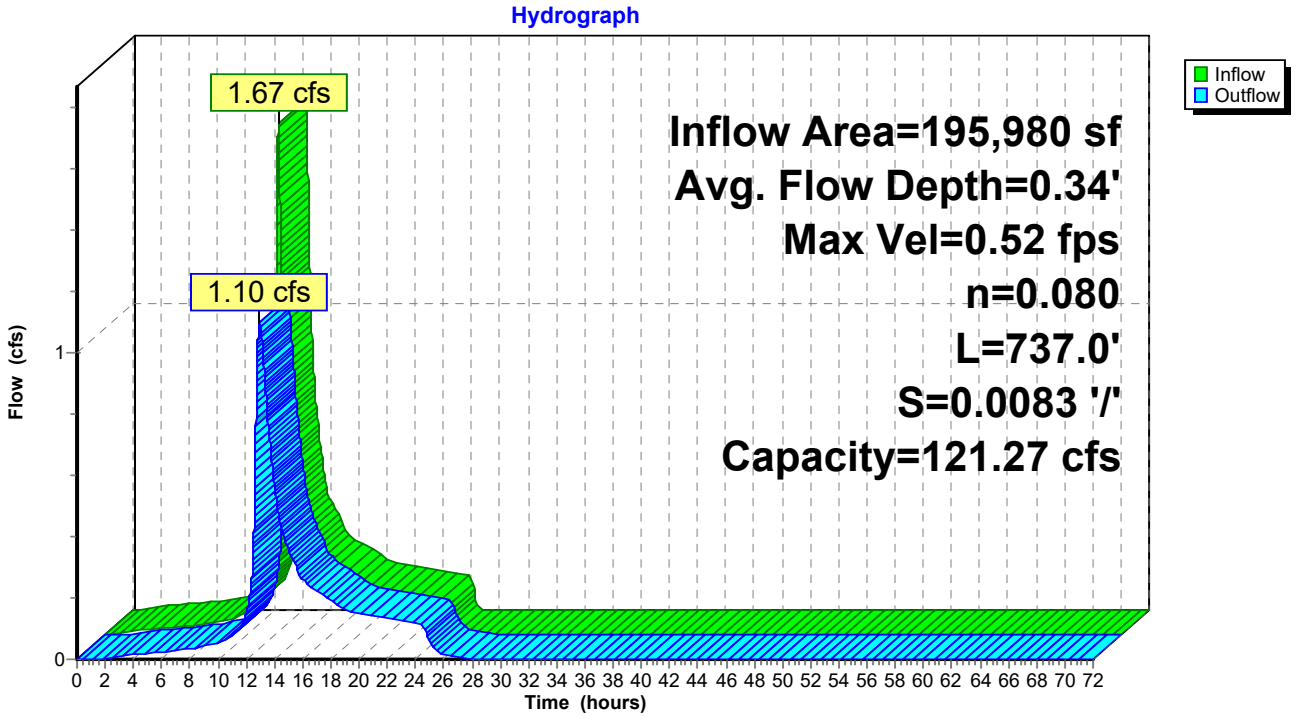
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.52 fps, Min. Travel Time= 23.7 min
Avg. Velocity = 0.21 fps, Avg. Travel Time= 59.4 min

Peak Storage= 1,554 cf @ 12.55 hrs
Average Depth at Peak Storage= 0.34' , Surface Width= 12.32'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 121.27 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 737.0' Slope= 0.0083 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



Reach 31R: DA2B East Swale



Summary for Reach 33R: DA2B West Swale

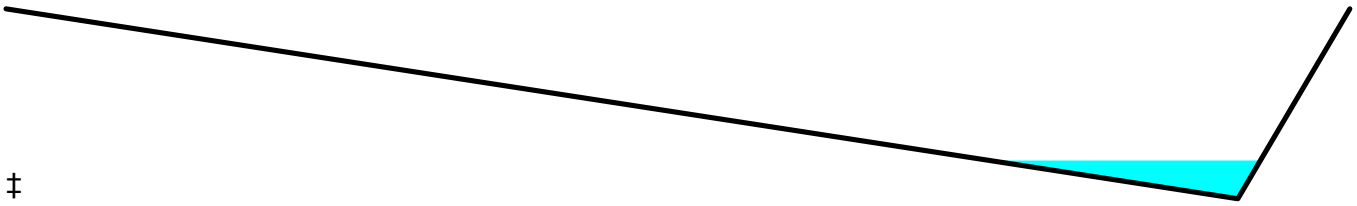
[61] Hint: Exceeded Reach 45R outlet invert by 0.40' @ 12.48 hrs

Inflow Area = 182,604 sf, 6.25% Impervious, Inflow Depth = 0.87" for 10-year_projected event
Inflow = 1.55 cfs @ 12.30 hrs, Volume= 13,180 cf
Outflow = 1.16 cfs @ 12.75 hrs, Volume= 13,180 cf, Atten= 25%, Lag= 27.1 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.40 fps, Min. Travel Time= 16.1 min
Avg. Velocity = 0.16 fps, Avg. Travel Time= 39.7 min

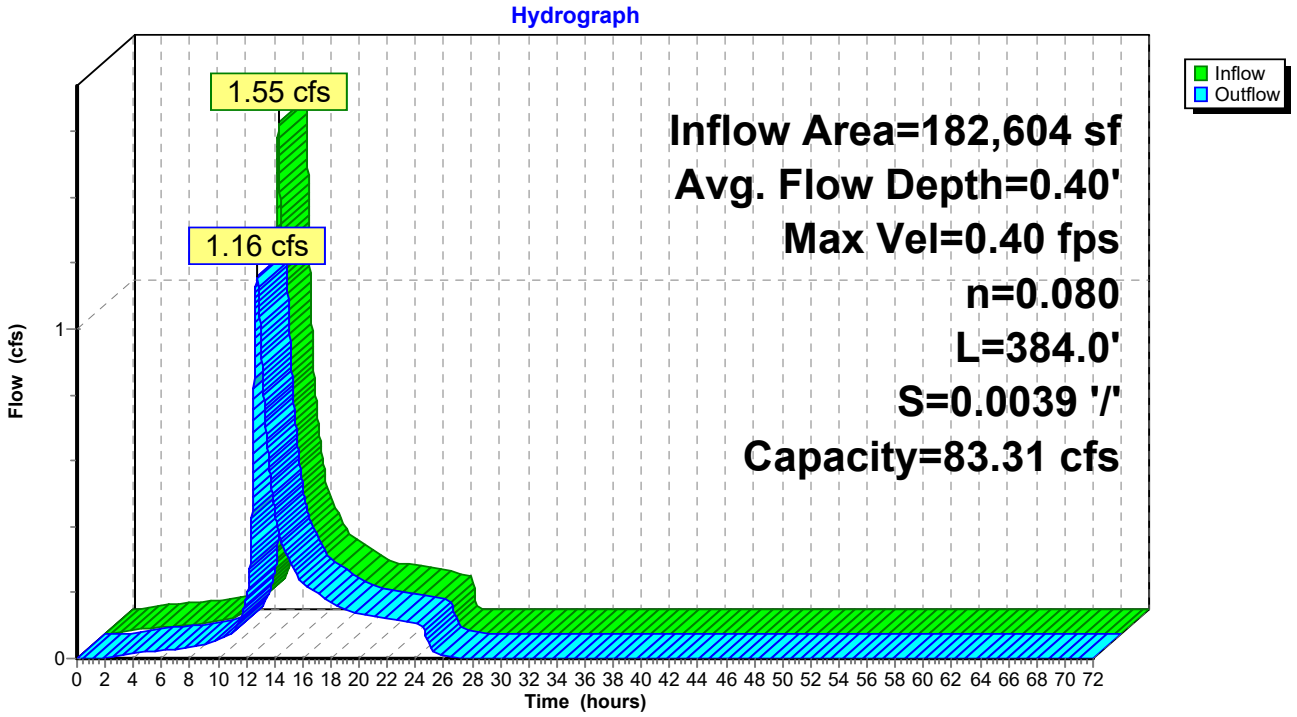
Peak Storage= 1,120 cf @ 12.48 hrs
Average Depth at Peak Storage= 0.40' , Surface Width= 14.49'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 83.31 cfs

0.00' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 384.0' Slope= 0.0039 '/'
Inlet Invert= 162.50', Outlet Invert= 161.00'



‡

Reach 33R: DA2B West Swale



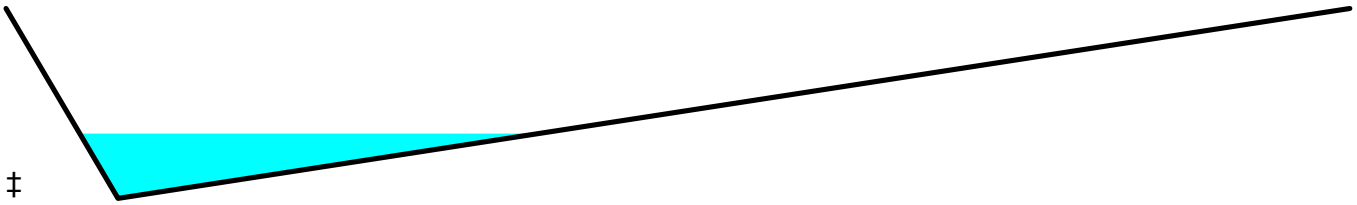
Summary for Reach 34R: DA4 West Swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 4.14" for 10-year_projected event
Inflow = 7.08 cfs @ 12.10 hrs, Volume= 24,104 cf
Outflow = 4.92 cfs @ 12.29 hrs, Volume= 24,104 cf, Atten= 31%, Lag= 11.6 min
Routed to Reach 43R : DA4 Roadside swale

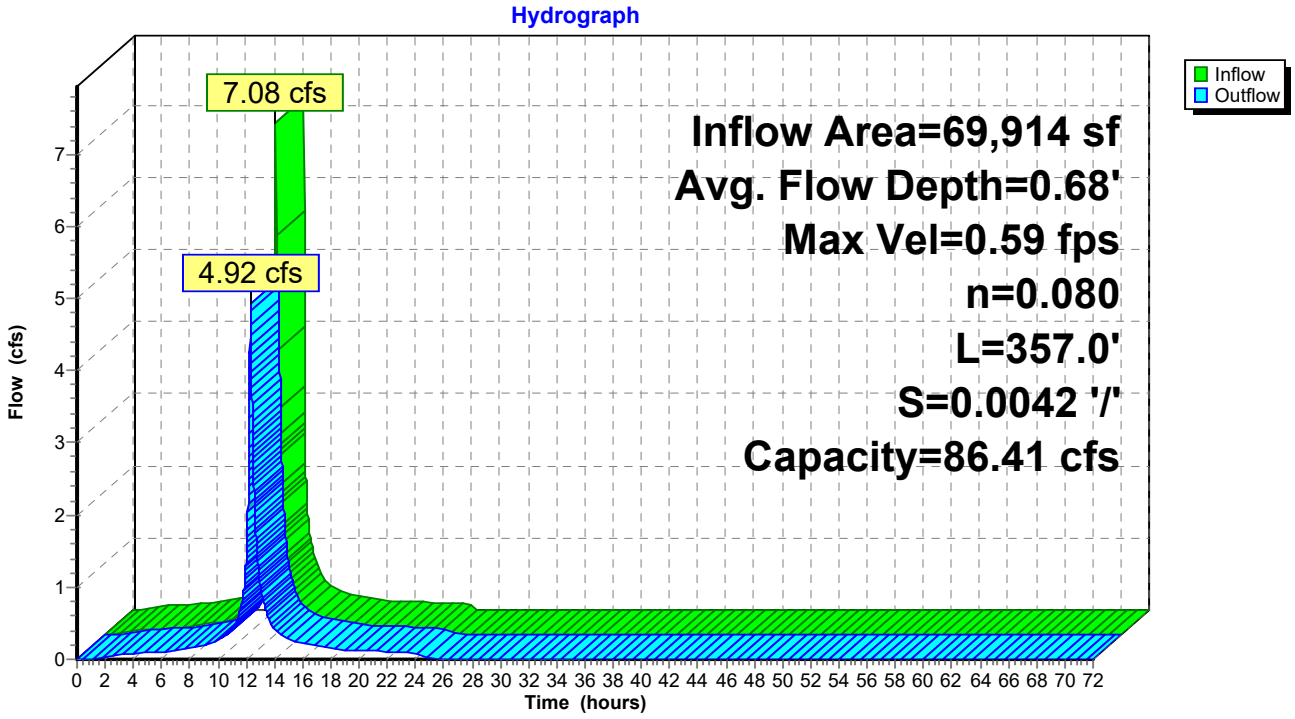
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.59 fps, Min. Travel Time= 10.2 min
Avg. Velocity = 0.19 fps, Avg. Travel Time= 30.6 min

Peak Storage= 2,998 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.68' , Surface Width= 24.59'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 86.41 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 357.0' Slope= 0.0042 '/'
Inlet Invert= 163.50', Outlet Invert= 162.00'



‡



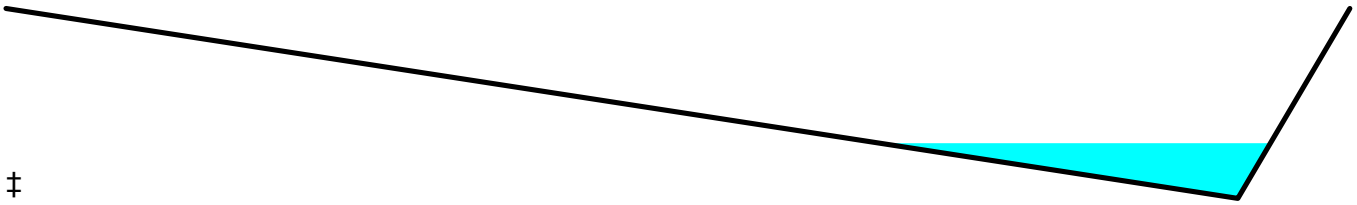
Summary for Reach 35R: DA2A West Swale

Inflow Area = 55,016 sf, 69.91% Impervious, Inflow Depth = 4.37" for 10-year_projected event
Inflow = 5.89 cfs @ 12.10 hrs, Volume= 20,022 cf
Outflow = 3.70 cfs @ 12.35 hrs, Volume= 20,022 cf, Atten= 37%, Lag= 15.2 min
Routed to Pond 26P : Basin 2A Forebay

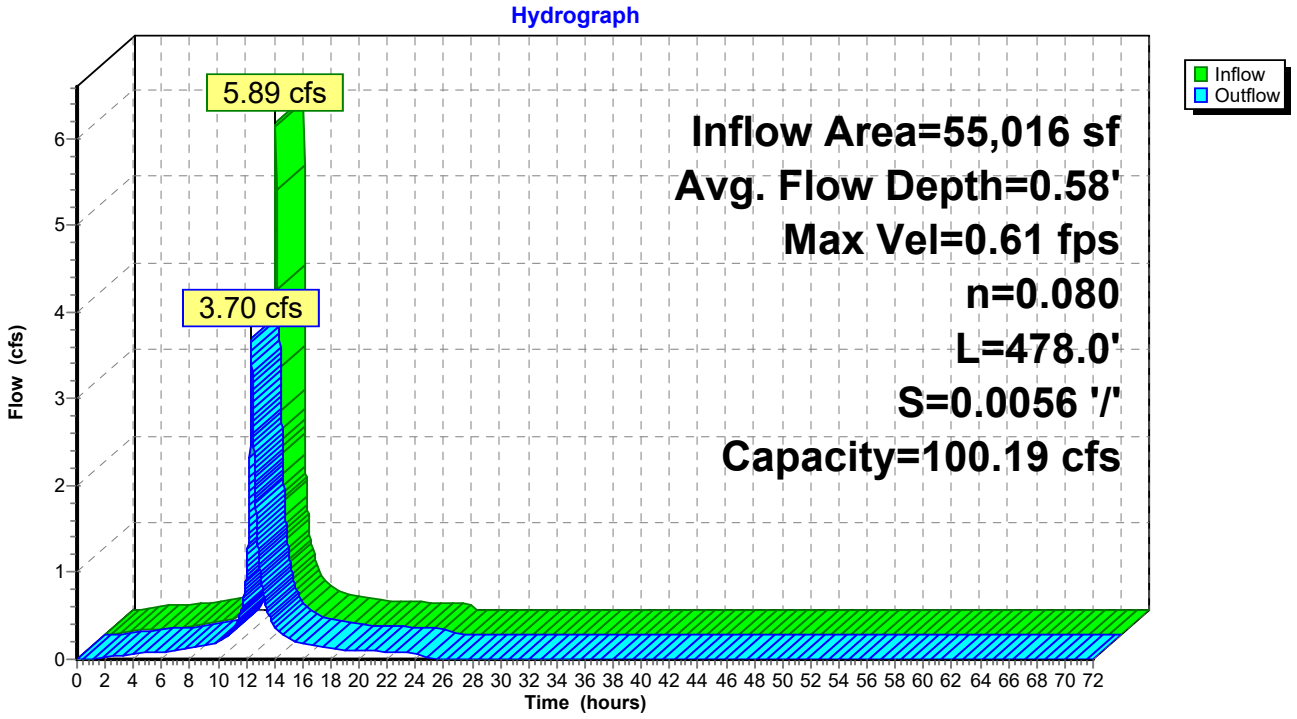
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.61 fps, Min. Travel Time= 13.1 min
Avg. Velocity = 0.20 fps, Avg. Travel Time= 39.3 min

Peak Storage= 2,900 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.58' , Surface Width= 20.90'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 100.19 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 478.0' Slope= 0.0056 '/'
Inlet Invert= 162.20', Outlet Invert= 159.50'



‡



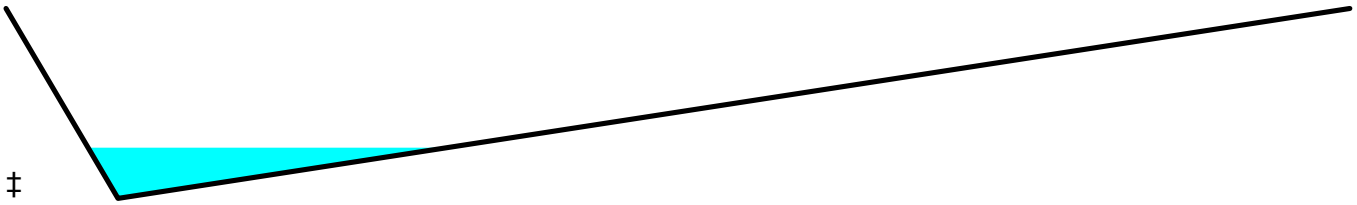
Summary for Reach 36R: DA2A East Swale

Inflow Area = 51,183 sf, 71.06% Impervious, Inflow Depth = 4.43" for 10-year_projected event
Inflow = 5.48 cfs @ 12.11 hrs, Volume= 18,897 cf
Outflow = 5.17 cfs @ 12.17 hrs, Volume= 18,897 cf, Atten= 6%, Lag= 3.5 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.00 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 0.38 fps, Avg. Travel Time= 6.4 min

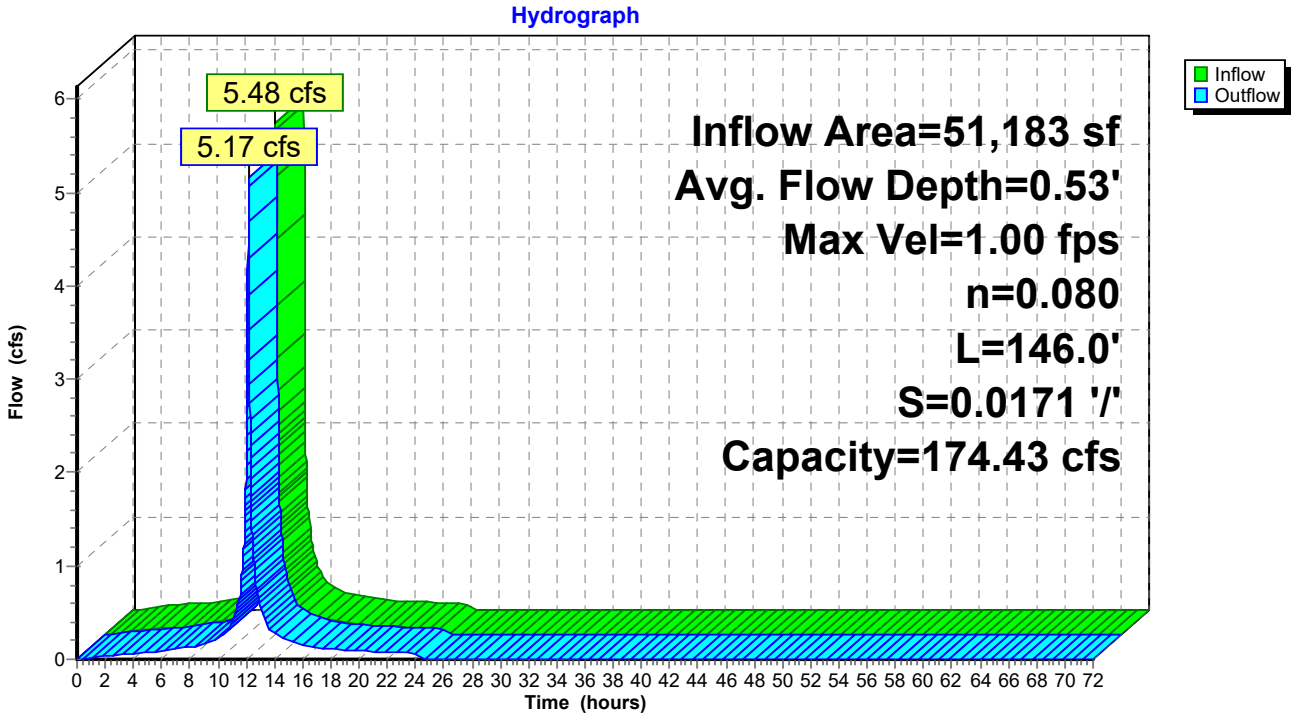
Peak Storage= 750 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.53' , Surface Width= 19.23'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 174.43 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 146.0' Slope= 0.0171 '/'
Inlet Invert= 162.00', Outlet Invert= 159.50'



‡

Reach 36R: DA2A East Swale



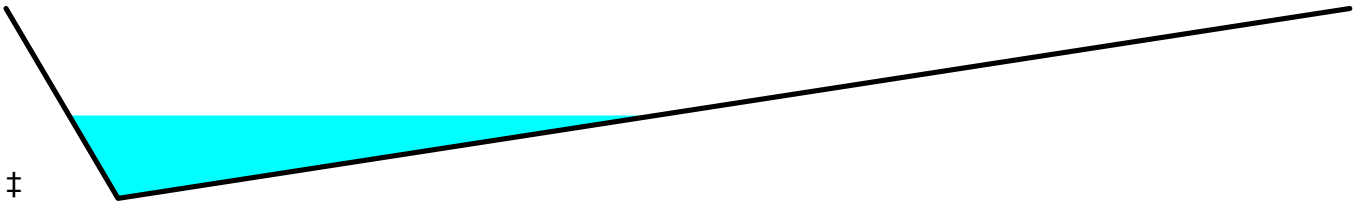
Summary for Reach 37R: DA1B Swale

Inflow Area = 104,152 sf, 91.22% Impervious, Inflow Depth = 5.54" for 10-year_projected event
Inflow = 14.26 cfs @ 12.11 hrs, Volume= 48,071 cf
Outflow = 10.55 cfs @ 12.28 hrs, Volume= 48,071 cf, Atten= 26%, Lag= 10.3 min
Routed to Pond 18P : Basin 1B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.77 fps, Min. Travel Time= 8.3 min
Avg. Velocity = 0.25 fps, Avg. Travel Time= 25.8 min

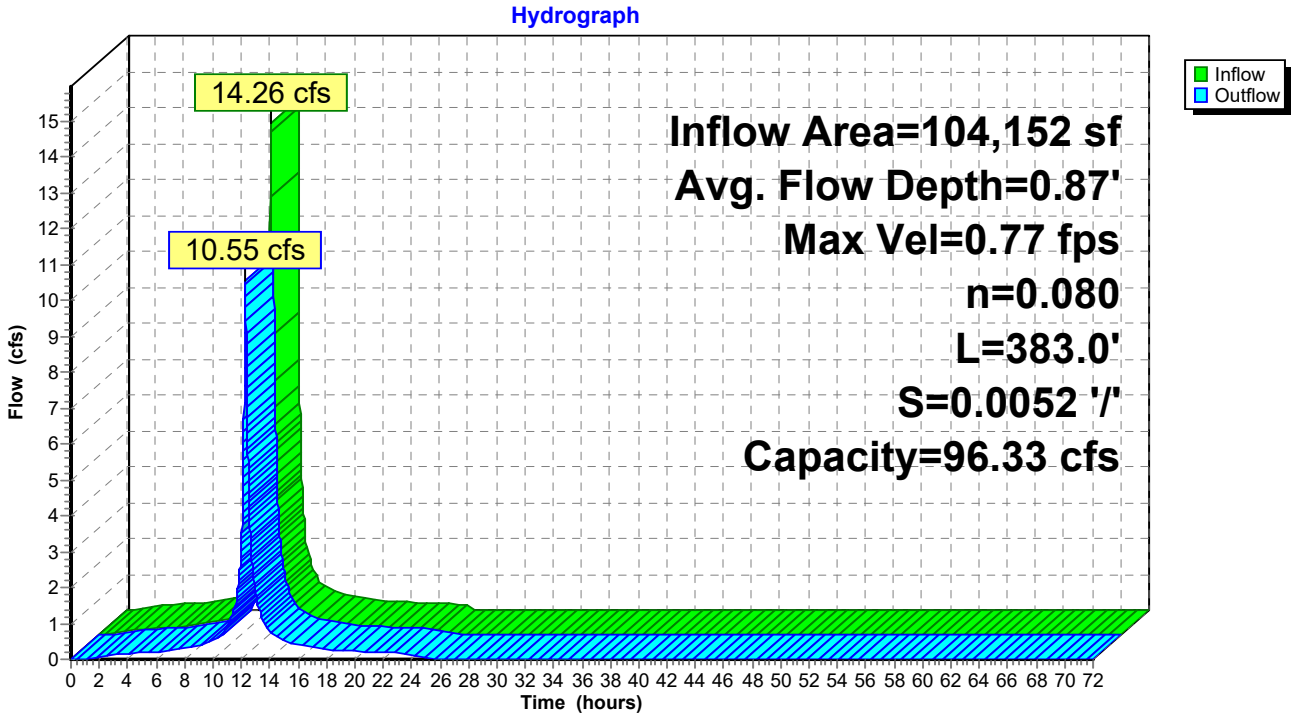
Peak Storage= 5,256 cf @ 12.14 hrs
Average Depth at Peak Storage= 0.87' , Surface Width= 31.43'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 96.33 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 383.0' Slope= 0.0052 '/'
Inlet Invert= 162.00', Outlet Invert= 160.00'



‡

Reach 37R: DA1B Swale



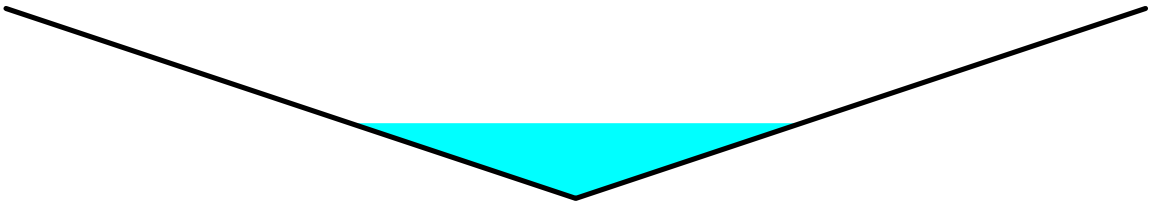
Summary for Reach 38R: DA3 Swale

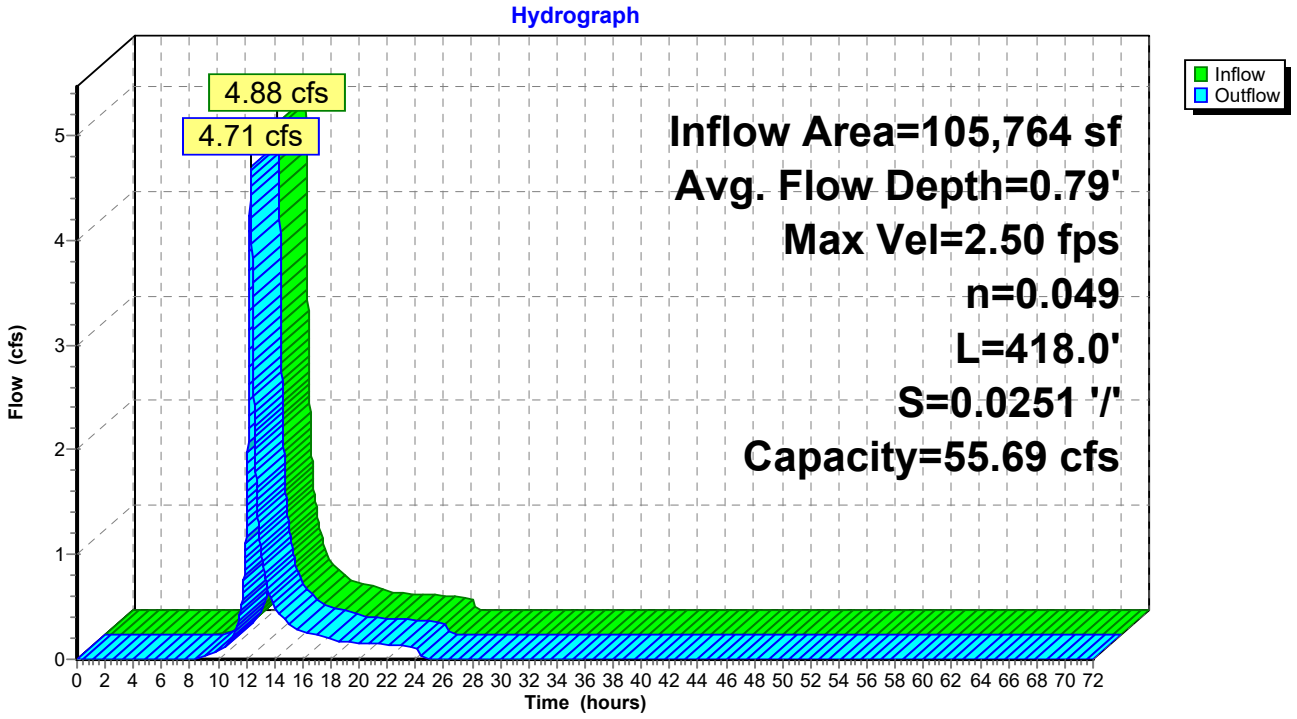
Inflow Area = 105,764 sf, 0.00% Impervious, Inflow Depth = 2.41" for 10-year_projected event
Inflow = 4.88 cfs @ 12.22 hrs, Volume= 21,250 cf
Outflow = 4.71 cfs @ 12.31 hrs, Volume= 21,250 cf, Atten= 4%, Lag= 5.1 min
Routed to Pond 38P : Basin 3 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.50 fps, Min. Travel Time= 2.8 min
Avg. Velocity = 1.04 fps, Avg. Travel Time= 6.7 min

Peak Storage= 787 cf @ 12.26 hrs
Average Depth at Peak Storage= 0.79' , Surface Width= 4.75'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 55.69 cfs

0.00' x 2.00' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 418.0' Slope= 0.0251 '/'
Inlet Invert= 158.50', Outlet Invert= 148.00'





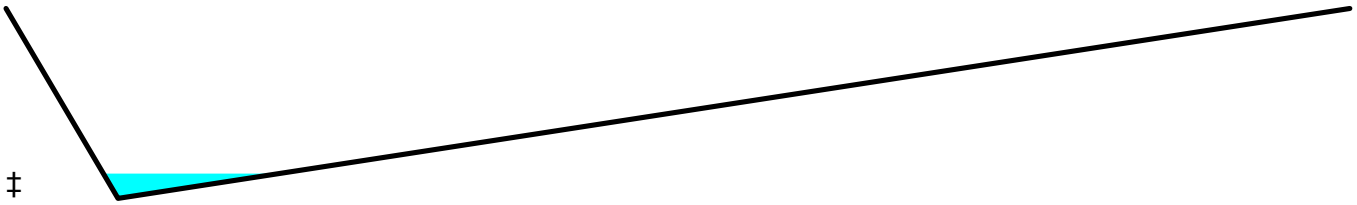
Summary for Reach 39R: DA 1A Central Swale A

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.87" for 10-year_projected event
Inflow = 0.67 cfs @ 12.25 hrs, Volume= 5,332 cf
Outflow = 0.42 cfs @ 12.91 hrs, Volume= 5,332 cf, Atten= 38%, Lag= 39.6 min
Routed to Reach 41R : DA 1A Central Swale B

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.34 fps, Min. Travel Time= 24.6 min
Avg. Velocity = 0.14 fps, Avg. Travel Time= 57.9 min

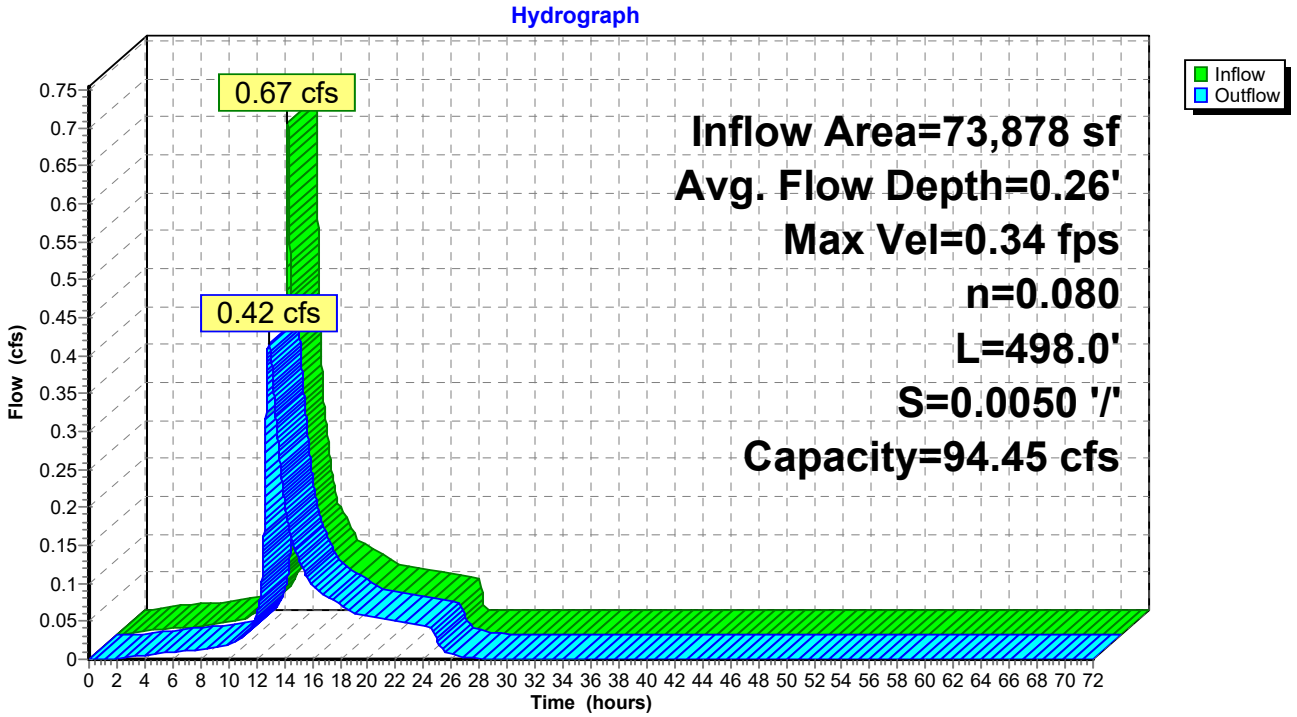
Peak Storage= 613 cf @ 12.50 hrs
Average Depth at Peak Storage= 0.26' , Surface Width= 9.41'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 94.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 498.0' Slope= 0.0050 '/'
Inlet Invert= 171.00', Outlet Invert= 168.50'



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Reach 39R: DA 1A Central Swale A



Summary for Reach 41R: DA 1A Central Swale B

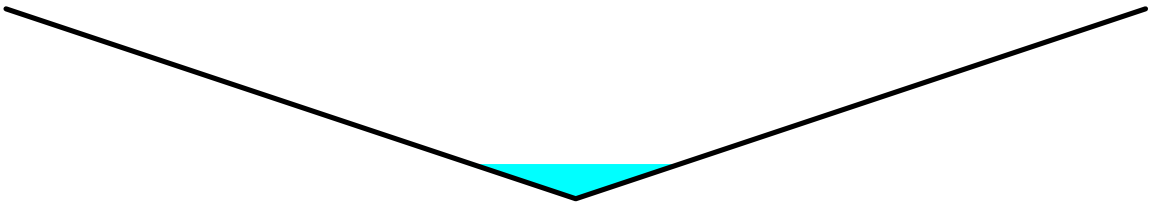
[62] Hint: Exceeded Reach 39R OUTLET depth by 0.13' @ 13.09 hrs

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.87" for 10-year_projected event
Inflow = 0.42 cfs @ 12.91 hrs, Volume= 5,332 cf
Outflow = 0.41 cfs @ 13.01 hrs, Volume= 5,332 cf, Atten= 0%, Lag= 5.8 min
Routed to Reach 30R : DA1A West Swale

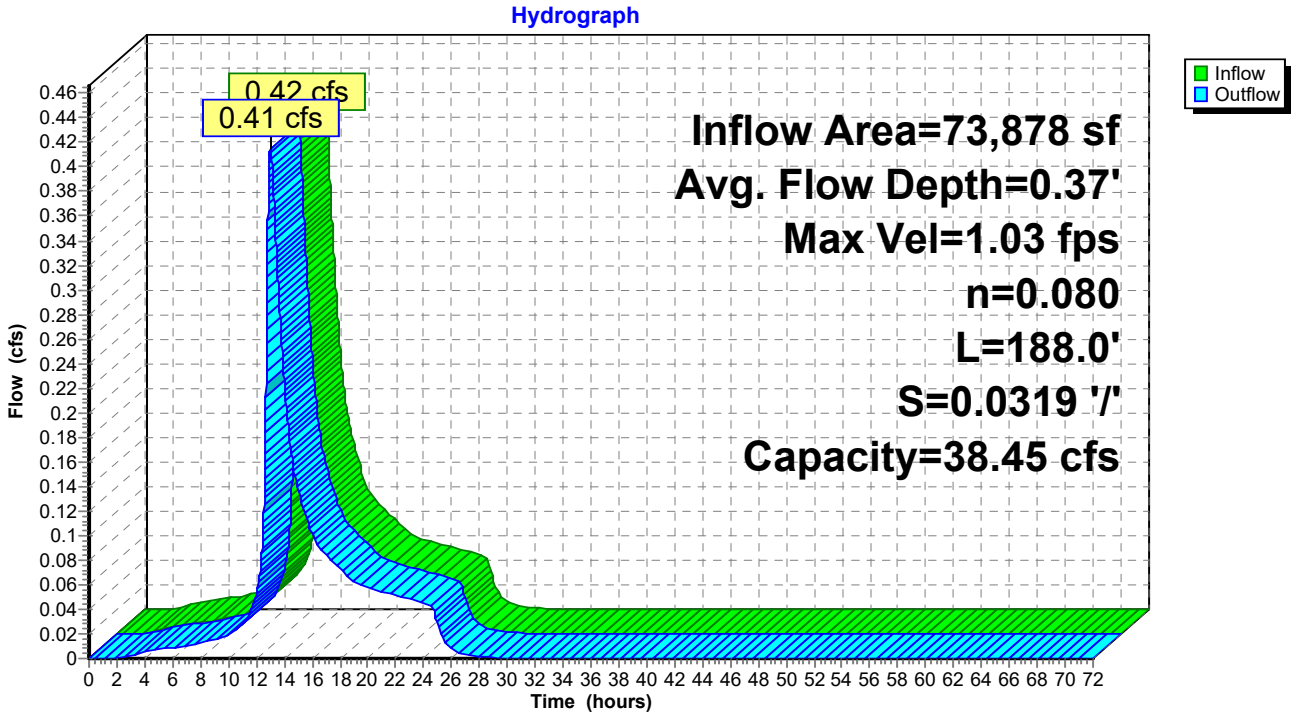
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.03 fps, Min. Travel Time= 3.0 min
Avg. Velocity = 0.44 fps, Avg. Travel Time= 7.1 min

Peak Storage= 75 cf @ 12.96 hrs
Average Depth at Peak Storage= 0.37' , Surface Width= 2.19'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 38.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 188.0' Slope= 0.0319 '/'
Inlet Invert= 168.50', Outlet Invert= 162.50'



Reach 41R: DA 1A Central Swale B



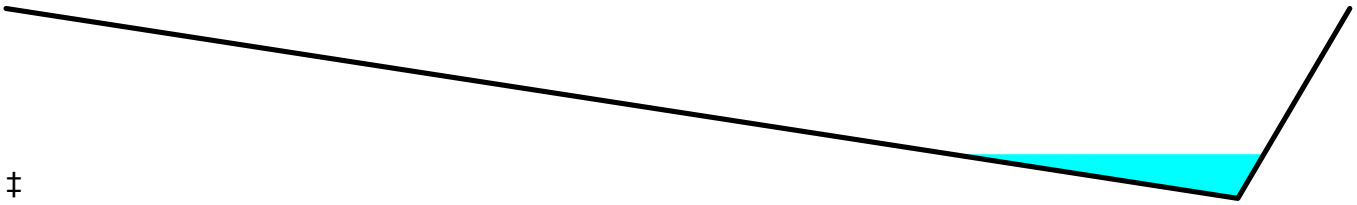
Summary for Reach 42R: DA4 East Swale

Inflow Area = 37,810 sf, 57.37% Impervious, Inflow Depth = 3.68" for 10-year_projected event
Inflow = 3.32 cfs @ 12.11 hrs, Volume= 11,587 cf
Outflow = 3.12 cfs @ 12.16 hrs, Volume= 11,587 cf, Atten= 6%, Lag= 3.3 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.80 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 0.31 fps, Avg. Travel Time= 6.1 min

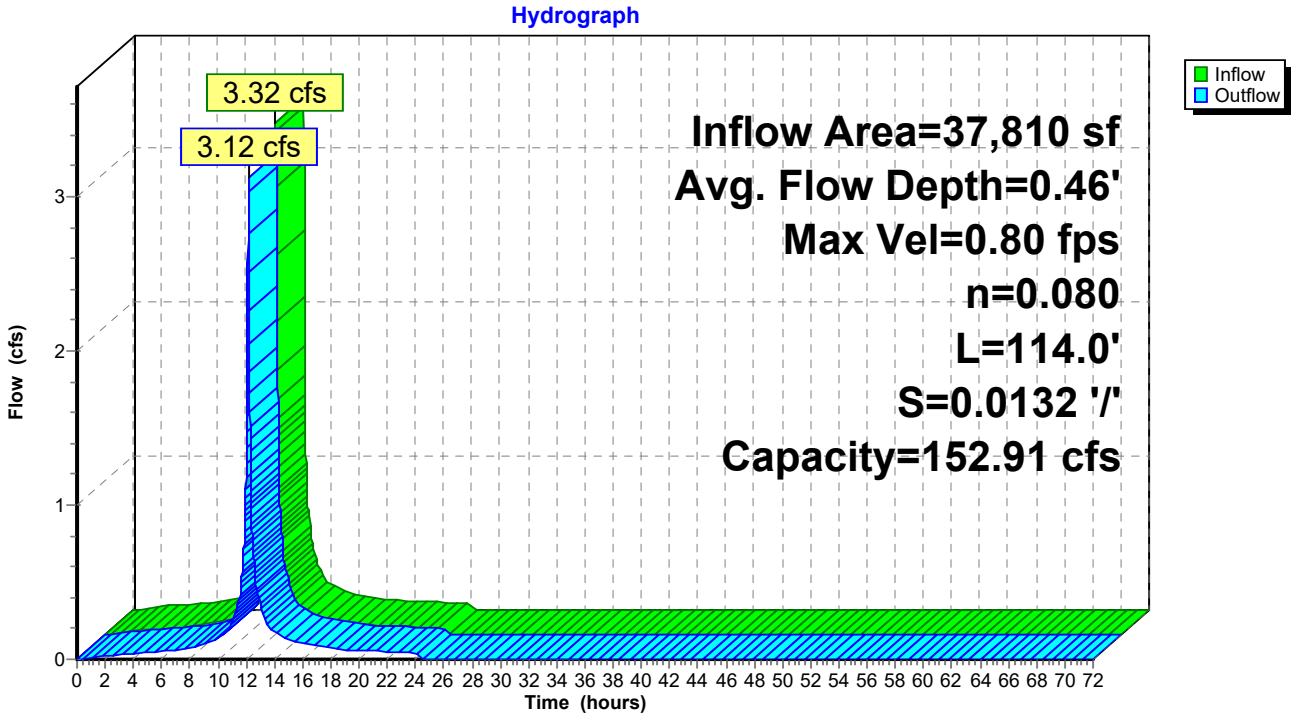
Peak Storage= 444 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.46' , Surface Width= 16.74'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 152.91 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 114.0' Slope= 0.0132 '/'
Inlet Invert= 159.50', Outlet Invert= 158.00'



‡

Reach 42R: DA4 East Swale



Summary for Reach 43R: DA4 Roadside swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 4.14" for 10-year_projected event
Inflow = 4.92 cfs @ 12.29 hrs, Volume= 24,104 cf
Outflow = 4.87 cfs @ 12.31 hrs, Volume= 24,104 cf, Atten= 1%, Lag= 1.3 min
Routed to Reach 44R : DA4 Culvert

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.34 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 0.67 fps, Avg. Travel Time= 2.6 min

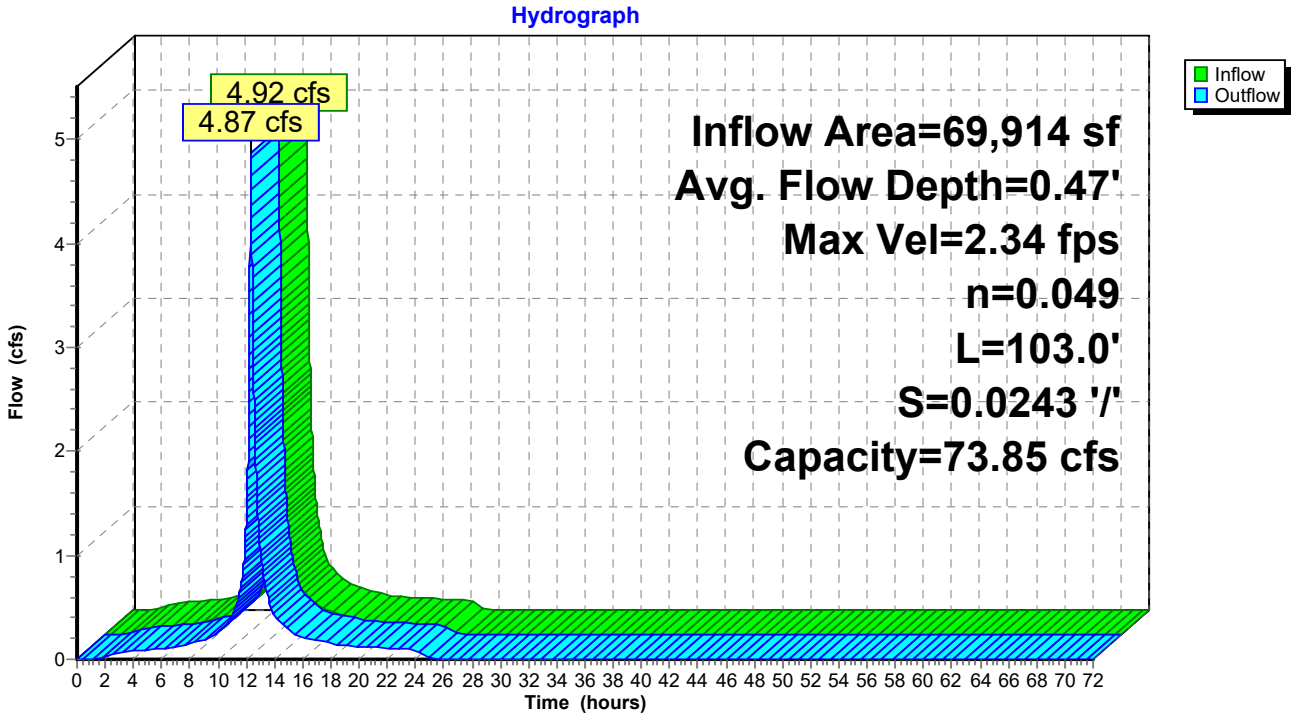
Peak Storage= 215 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.47' , Surface Width= 5.83'
Bank-Full Depth= 1.80' Flow Area= 15.1 sf, Capacity= 73.85 cfs

3.00' x 1.80' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 13.80'
Length= 103.0' Slope= 0.0243 '/'
Inlet Invert= 160.20', Outlet Invert= 157.70'



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Reach 43R: DA4 Roadside swale



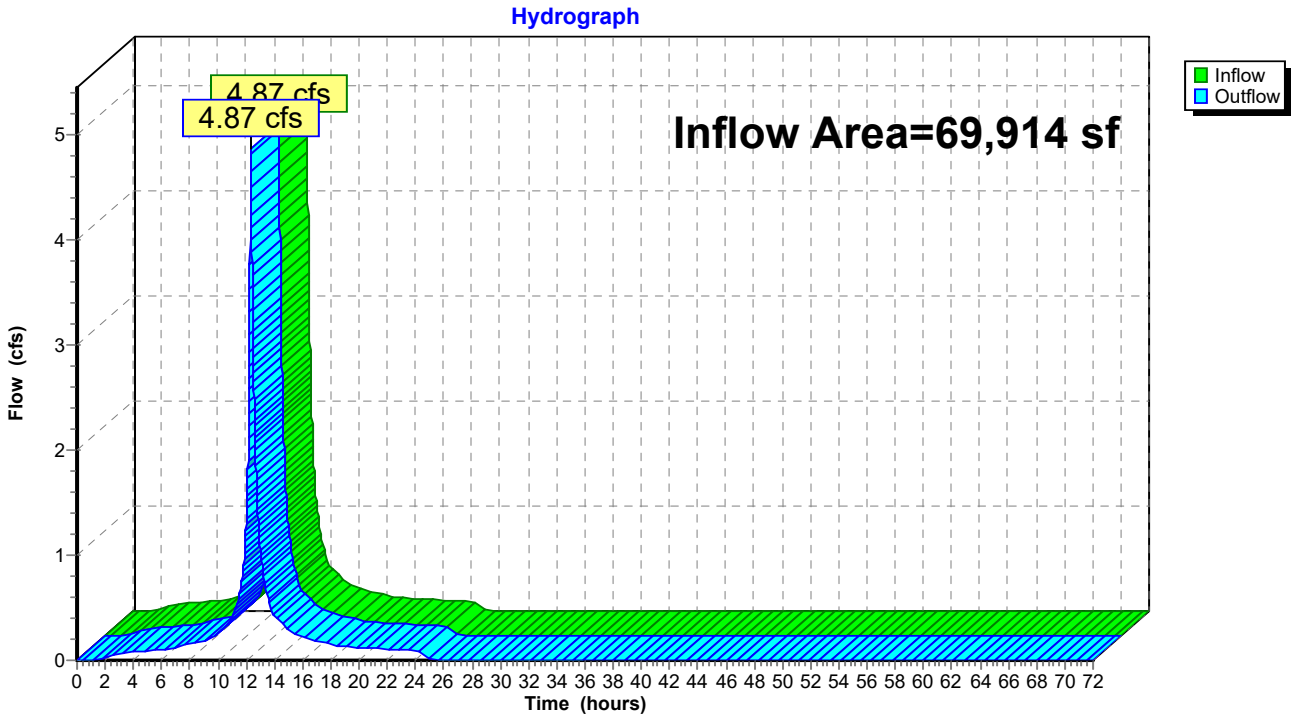
Summary for Reach 44R: DA4 Culvert

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 4.14" for 10-year_projected event
Inflow = 4.87 cfs @ 12.31 hrs, Volume= 24,104 cf
Outflow = 4.87 cfs @ 12.31 hrs, Volume= 24,104 cf, Atten= 0%, Lag= 0.0 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach 44R: DA4 Culvert

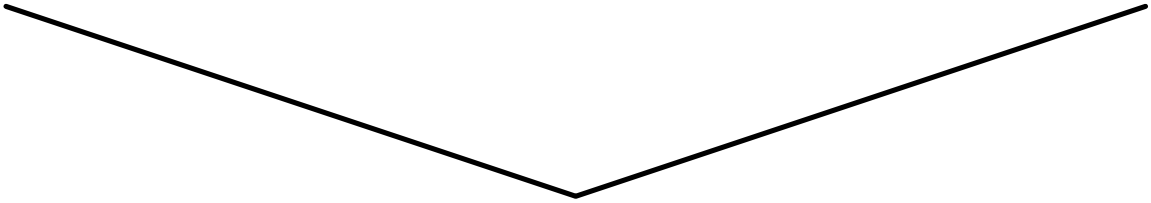


Summary for Reach 45R: DA2B Road Swale

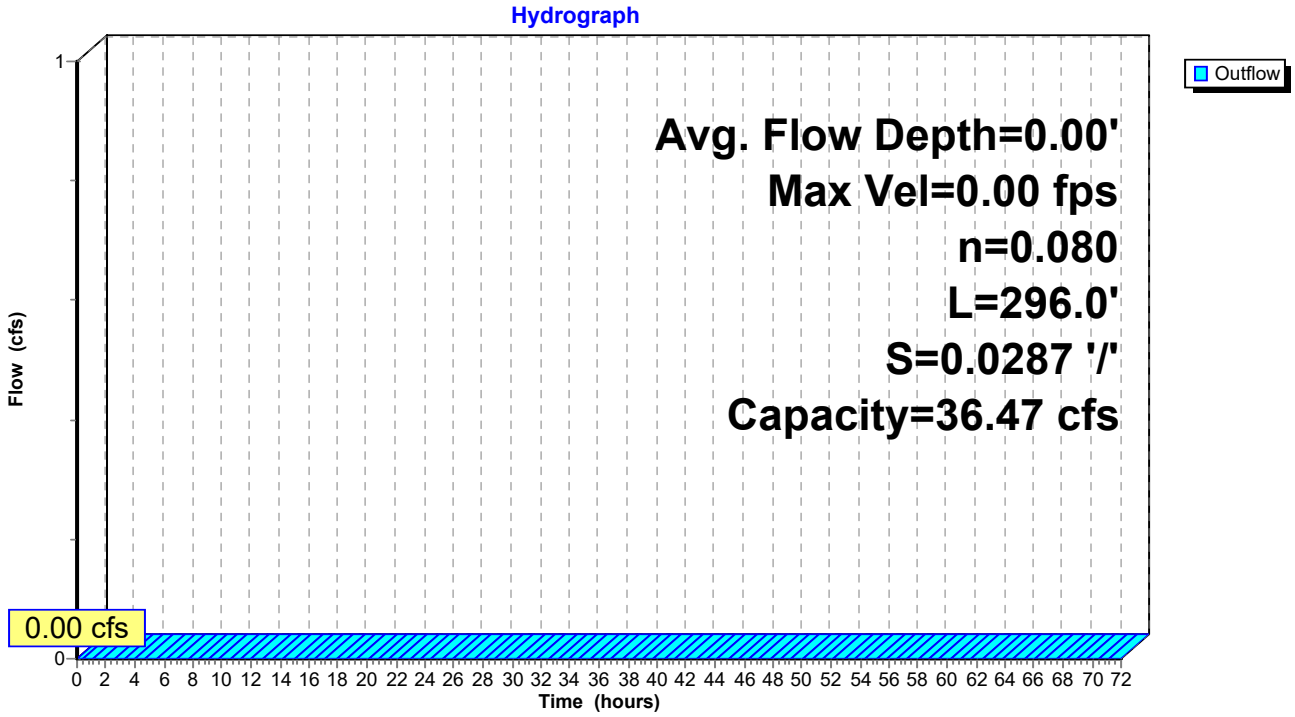
[43] Hint: Has no inflow (Outflow=Zero)

Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 36.47 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 296.0' Slope= 0.0287 '/'
Inlet Invert= 171.00', Outlet Invert= 162.50'



Reach 45R: DA2B Road Swale



Summary for Pond 15P: Basin 1A Forebay

Inflow Area = 510,150 sf, 6.82% Impervious, Inflow Depth = 0.90" for 10-year_projected event
Inflow = 2.43 cfs @ 13.06 hrs, Volume= 38,150 cf
Outflow = 2.43 cfs @ 13.09 hrs, Volume= 34,912 cf, Atten= 0%, Lag= 1.6 min
Primary = 2.43 cfs @ 13.09 hrs, Volume= 34,912 cf
Routed to Pond 48P : Basin 1A Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.98' @ 13.09 hrs Surf.Area= 1,809 sf Storage= 3,562 cf

Plug-Flow detention time= 90.9 min calculated for 34,912 cf (92% of inflow)
Center-of-Mass det. time= 42.9 min (991.1 - 948.2)

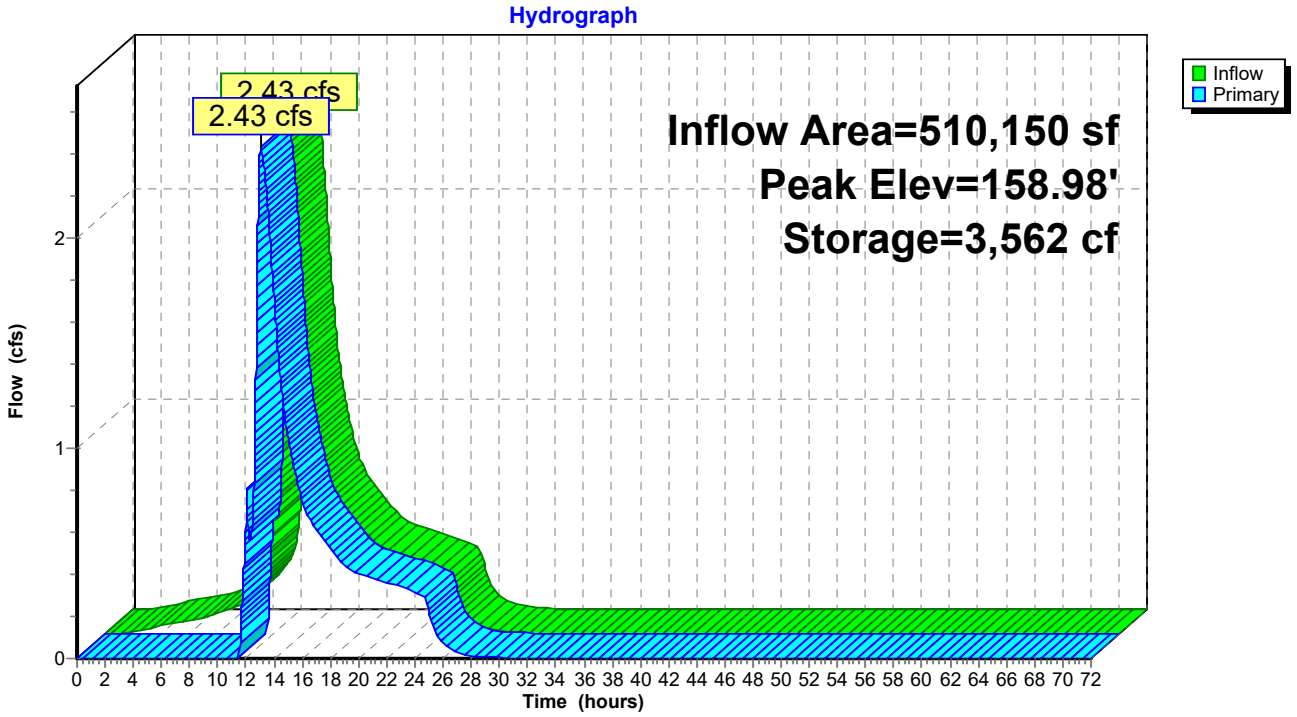
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	3,964 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	662	0	0
156.20	723	138	138
156.70	885	402	540
157.20	1,062	487	1,027
157.70	1,253	579	1,606
158.20	1,458	678	2,284
158.70	1,677	784	3,067
159.20	1,910	897	3,964

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.80'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Primary	159.00'	**25.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=2.43 cfs @ 13.09 hrs HW=158.98' (Free Discharge)
└**2=Culvert** (Passes 2.43 cfs of 16.82 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 2.43 cfs @ 1.40 fps)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 15P: Basin 1A Forebay



Summary for Pond 18P: Basin 1B Forebay

Inflow Area = 114,201 sf, 89.03% Impervious, Inflow Depth = 5.45" for 10-year_projected event
Inflow = 10.85 cfs @ 12.28 hrs, Volume= 51,886 cf
Outflow = 9.72 cfs @ 12.32 hrs, Volume= 41,877 cf, Atten= 10%, Lag= 2.5 min
Primary = 9.72 cfs @ 12.32 hrs, Volume= 41,877 cf
Routed to Pond 43P : Basin 1B Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.97' @ 12.32 hrs Surf.Area= 5,286 sf Storage= 12,416 cf

Plug-Flow detention time= 164.9 min calculated for 41,871 cf (81% of inflow)
Center-of-Mass det. time= 79.7 min (846.9 - 767.2)

Volume	Invert	Avail.Storage	Storage Description
#1	155.98'	18,291 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

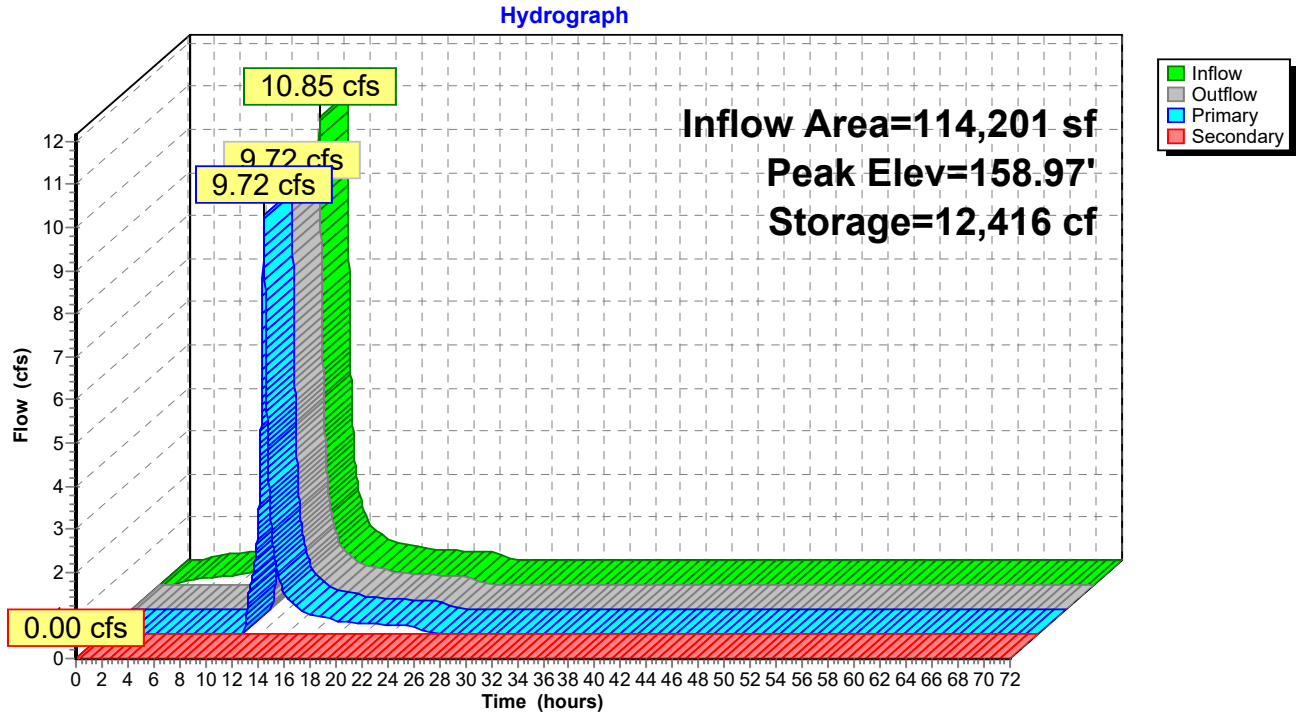
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.98	3,096	0	0
156.00	3,108	62	62
156.50	3,440	1,637	1,699
157.00	3,785	1,806	3,505
157.50	4,145	1,983	5,488
158.00	4,518	2,166	7,654
158.50	4,906	2,356	10,010
159.00	5,308	2,554	12,563
159.50	5,724	2,758	15,321
160.00	6,154	2,970	18,291

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	159.50'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=10.00 cfs @ 12.32 hrs HW=158.97' (Free Discharge)
└**2=Culvert** (Passes 10.00 cfs of 10.01 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 10.00 cfs @ 2.25 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 18P: Basin 1B Forebay



Summary for Pond 26P: Basin 2A Forebay

Inflow Area = 114,388 sf, 72.58% Impervious, Inflow Depth = 4.51" for 10-year_projected event
Inflow = 7.19 cfs @ 12.17 hrs, Volume= 43,027 cf
Outflow = 6.55 cfs @ 12.20 hrs, Volume= 35,781 cf, Atten= 9%, Lag= 1.8 min
Primary = 6.55 cfs @ 12.20 hrs, Volume= 35,781 cf
Routed to Pond 44P : Basin 2A Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.06' @ 12.20 hrs Surf.Area= 5,198 sf Storage= 9,046 cf

Plug-Flow detention time= 154.9 min calculated for 35,781 cf (83% of inflow)
Center-of-Mass det. time= 75.1 min (844.3 - 769.2)

Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	11,435 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

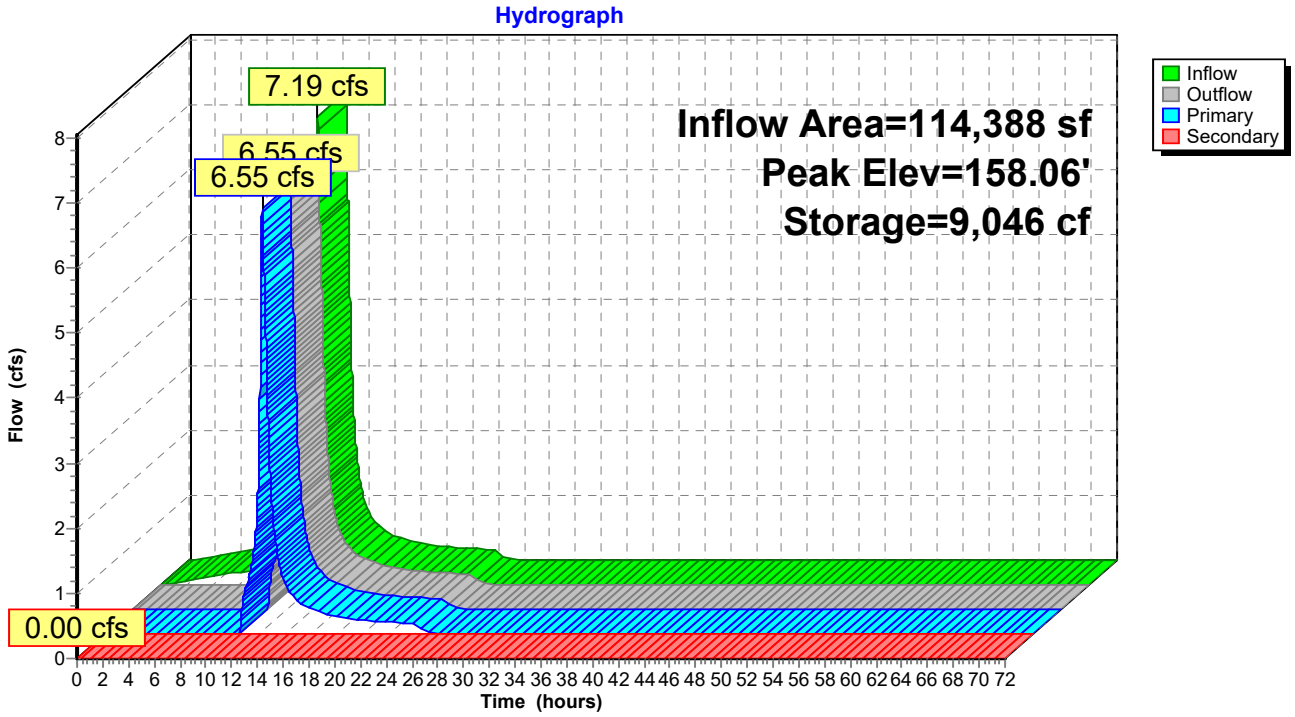
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	3,639	0	0
156.50	3,996	1,909	1,909
157.00	4,367	2,091	4,000
157.50	4,753	2,280	6,280
158.00	5,152	2,476	8,756
158.50	5,566	2,680	11,435

Device	Routing	Invert	Outlet Devices
#1	Secondary	158.30'	**20.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32
#2	Device 3	157.70'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Primary	156.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.00' S= 0.0417 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.55 cfs @ 12.20 hrs HW=158.06' (Free Discharge)
└**3=Culvert** (Passes 6.55 cfs of 7.68 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 6.55 cfs @ 1.95 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 26P: Basin 2A Forebay



Summary for Pond 38P: Basin 3 Forebay

Inflow Area = 106,766 sf, 0.94% Impervious, Inflow Depth = 2.44" for 10-year_projected event
Inflow = 4.74 cfs @ 12.31 hrs, Volume= 21,753 cf
Outflow = 3.60 cfs @ 12.43 hrs, Volume= 16,295 cf, Atten= 24%, Lag= 7.4 min
Primary = 3.60 cfs @ 12.43 hrs, Volume= 16,295 cf
Routed to Pond 60P : Basin 3 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 145.74' @ 12.43 hrs Surf.Area= 4,365 sf Storage= 6,478 cf

Plug-Flow detention time= 162.9 min calculated for 16,295 cf (75% of inflow)
Center-of-Mass det. time= 62.6 min (924.8 - 862.2)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	18,417 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

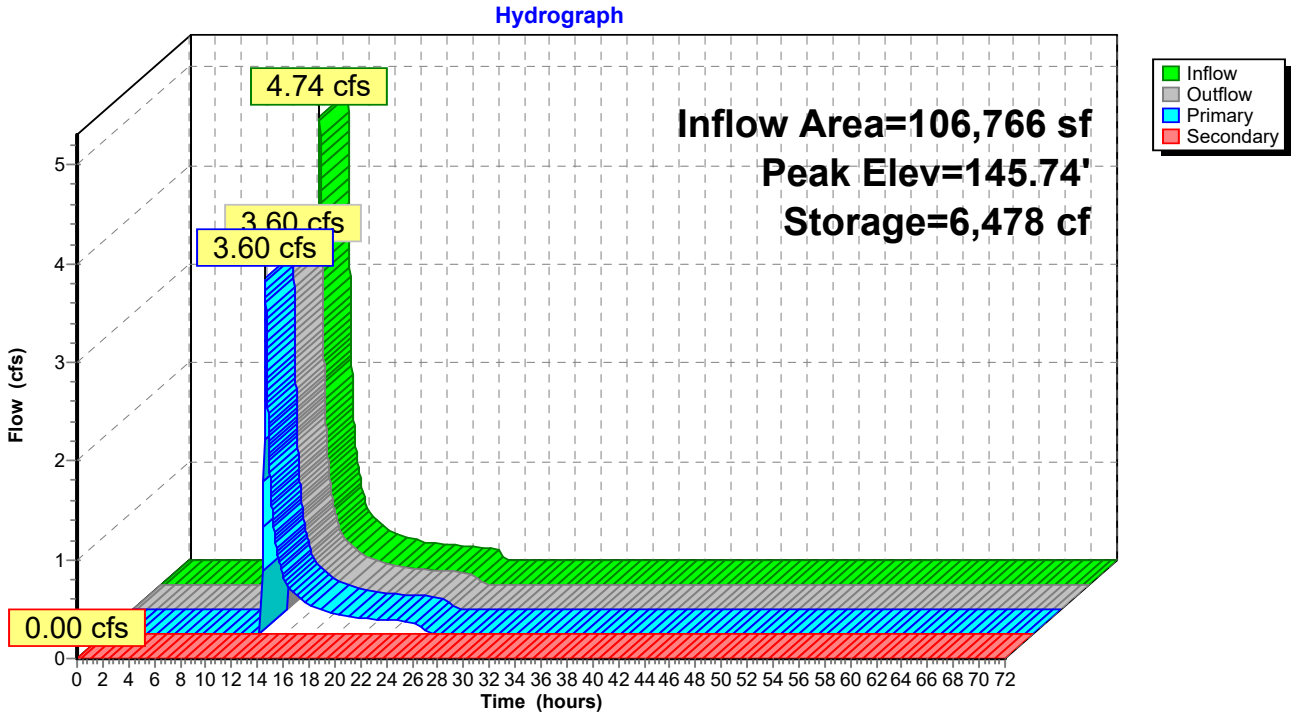
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.00	3,115	0	0
144.50	3,456	1,643	1,643
145.00	3,812	1,817	3,460
145.50	4,182	1,999	5,458
146.00	4,565	2,187	7,645
146.50	4,963	2,382	10,027
147.00	5,375	2,585	12,612
147.50	5,802	2,794	15,406
148.00	6,242	3,011	18,417

Device	Routing	Invert	Outlet Devices
#1	Device 2	145.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	144.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 144.00' / 143.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=3.59 cfs @ 12.43 hrs HW=145.74' (Free Discharge)
└**2=Culvert** (Passes 3.59 cfs of 6.68 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 3.59 cfs @ 1.60 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 38P: Basin 3 Forebay



Summary for Pond 39P: Basin 4 Forebay

[62] Hint: Exceeded Reach 42R OUTLET depth by 0.05' @ 12.38 hrs

Inflow Area = 112,908 sf, 64.51% Impervious, Inflow Depth = 4.07" for 10-year_projected event
Inflow = 6.16 cfs @ 12.30 hrs, Volume= 38,292 cf
Outflow = 5.93 cfs @ 12.33 hrs, Volume= 29,081 cf, Atten= 4%, Lag= 1.7 min
Primary = 5.93 cfs @ 12.33 hrs, Volume= 29,081 cf
Routed to Pond 51P : Basin 4 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.33' @ 12.33 hrs Surf.Area= 4,350 sf Storage= 10,617 cf

Plug-Flow detention time= 189.8 min calculated for 29,081 cf (76% of inflow)
Center-of-Mass det. time= 90.3 min (863.8 - 773.5)

Volume	Invert	Avail.Storage	Storage Description
#1	155.00'	15,703 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

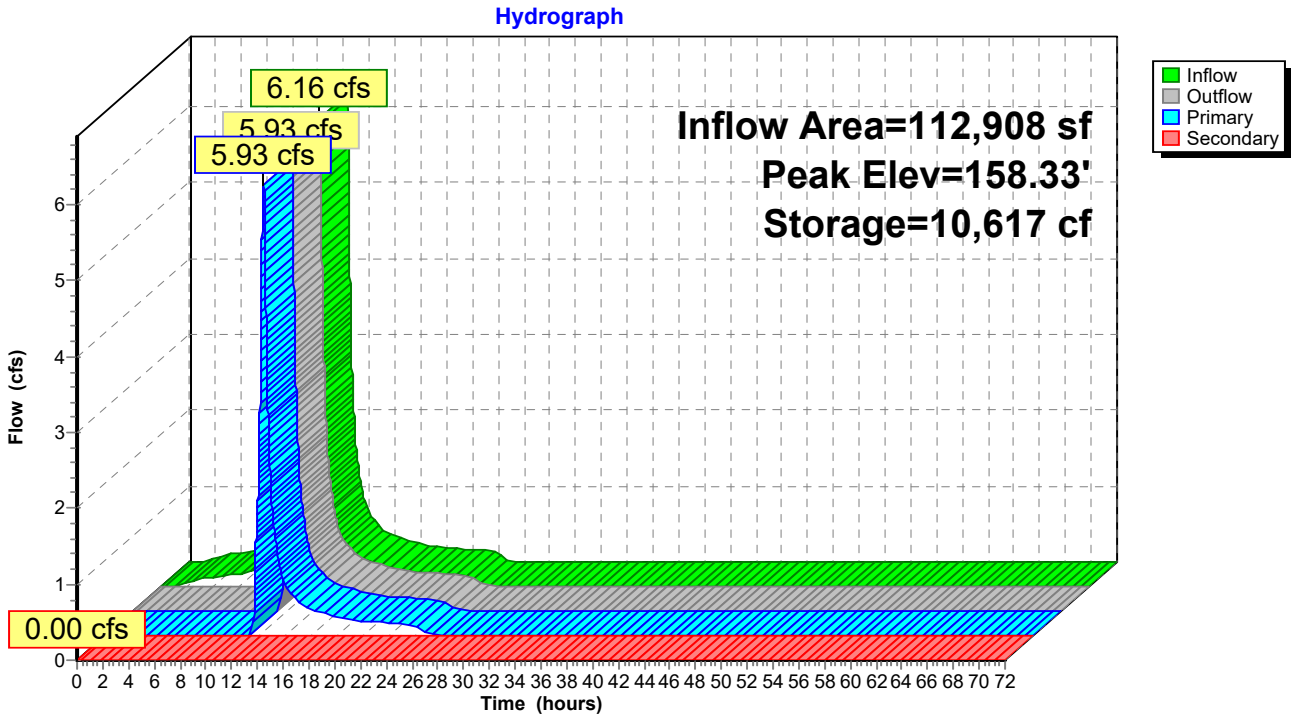
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.00	2,116	0	0
155.40	2,360	895	895
155.90	2,665	1,256	2,151
156.40	2,983	1,412	3,563
156.90	3,316	1,575	5,138
157.40	3,663	1,745	6,883
157.50	3,734	370	7,253
157.90	4,024	1,552	8,804
158.40	4,400	2,106	10,910
158.90	4,789	2,297	13,208
159.40	5,192	2,495	15,703

Device	Routing	Invert	Outlet Devices
#1	Primary	155.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 155.00' / 154.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	158.00'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	158.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=5.92 cfs @ 12.33 hrs HW=158.33' (Free Discharge)
└**1=Culvert** (Passes 5.92 cfs of 10.80 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 5.92 cfs @ 1.89 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 39P: Basin 4 Forebay



Summary for Pond 43P: Basin 1B Bioretention

[79] Warning: Submerged Pond 18P Primary device # 2 INLET by 1.76'

Inflow Area = 126,097 sf, 87.23% Impervious, Inflow Depth = 4.43" for 10-year_projected event
Inflow = 9.99 cfs @ 12.32 hrs, Volume= 46,549 cf
Outflow = 4.16 cfs @ 12.66 hrs, Volume= 26,563 cf, Atten= 58%, Lag= 20.4 min
Primary = 4.16 cfs @ 12.66 hrs, Volume= 26,563 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.76' @ 12.66 hrs Surf.Area= 7,533 sf Storage= 21,931 cf

Plug-Flow detention time= 225.6 min calculated for 26,563 cf (57% of inflow)
Center-of-Mass det. time= 109.5 min (947.2 - 837.7)

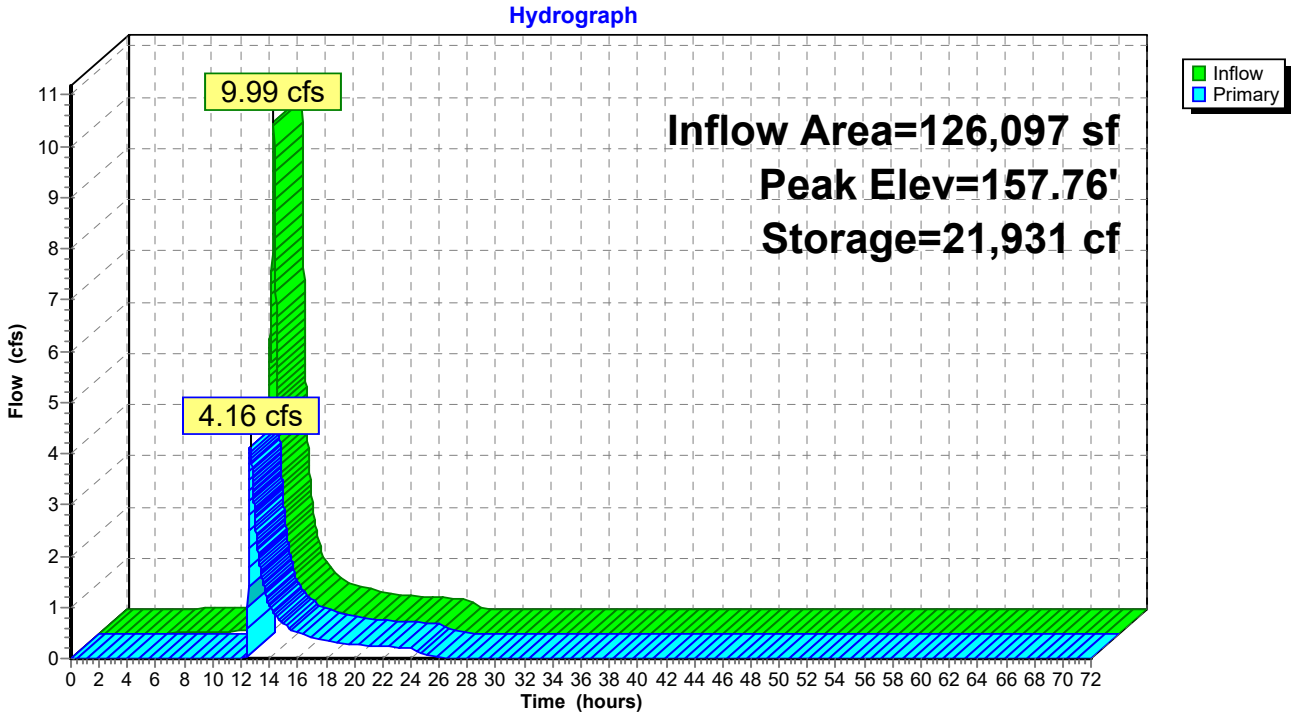
Volume	Invert	Avail.Storage	Storage Description
#1	153.98'	24,528 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.98	4,198	0	0
154.00	4,213	84	84
154.50	4,608	2,205	2,289
155.00	5,017	2,406	4,696
155.50	5,440	2,614	7,310
156.00	5,877	2,829	10,139
156.50	6,328	3,051	13,190
157.00	6,793	3,280	16,471
157.50	7,272	3,516	19,987
158.00	7,768	3,760	23,747
158.10	7,850	781	24,528

Device	Routing	Invert	Outlet Devices
#1	Device 2	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	154.00'	**24.0" Round Culvert** L= 32.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 152.00' S= 0.0625 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.15 cfs @ 12.66 hrs HW=157.76' (Free Discharge)
↑**2=Culvert** (Passes 4.15 cfs of 19.85 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 4.15 cfs @ 1.68 fps)

Pond 43P: Basin 1B Bioretention



Summary for Pond 44P: Basin 2A Bioretention

[79] Warning: Submerged Pond 26P Primary device # 3 INLET by 1.67'

Inflow Area = 127,935 sf, 75.49% Impervious, Inflow Depth = 3.99" for 10-year_projected event
Inflow = 7.22 cfs @ 12.19 hrs, Volume= 42,579 cf
Outflow = 2.08 cfs @ 12.99 hrs, Volume= 19,895 cf, Atten= 71%, Lag= 47.7 min
Primary = 2.08 cfs @ 12.99 hrs, Volume= 19,895 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.67' @ 12.99 hrs Surf.Area= 8,567 sf Storage= 24,083 cf

Plug-Flow detention time= 289.2 min calculated for 19,895 cf (47% of inflow)
Center-of-Mass det. time= 158.3 min (985.9 - 827.6)

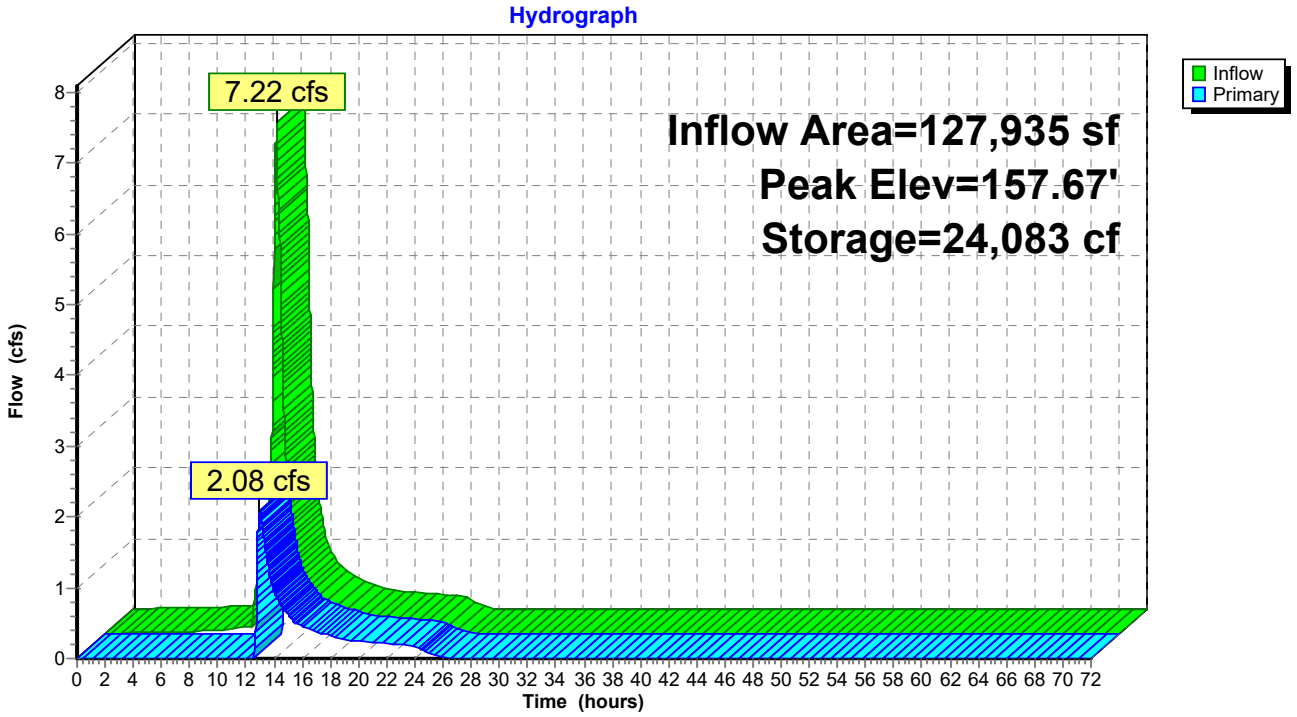
Volume	Invert	Avail.Storage	Storage Description
#1	154.00'	27,017 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
154.00	4,692	0	0
154.50	5,178	2,468	2,468
155.00	5,678	2,714	5,182
155.50	6,192	2,968	8,149
156.00	6,718	3,228	11,377
156.50	7,258	3,494	14,871
157.00	7,810	3,767	18,638
157.50	8,376	4,047	22,684
158.00	8,955	4,333	27,017

Device	Routing	Invert	Outlet Devices
#1	Primary	154.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 153.00' S= 0.0417 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.07 cfs @ 12.99 hrs HW=157.67' (Free Discharge)
└**1=Culvert** (Passes 2.07 cfs of 11.47 cfs potential flow)
└**2=Orifice/Grate** (Weir Controls 2.07 cfs @ 1.33 fps)

Pond 44P: Basin 2A Bioretention



Summary for Pond 45P: Basin 2A Infiltration

Inflow Area = 177,071 sf, 82.29% Impervious, Inflow Depth = 3.02" for 10-year_projected event
Inflow = 7.41 cfs @ 12.09 hrs, Volume= 44,552 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 152.55' @ 71.79 hrs Surf.Area= 24,600 sf Storage= 44,550 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

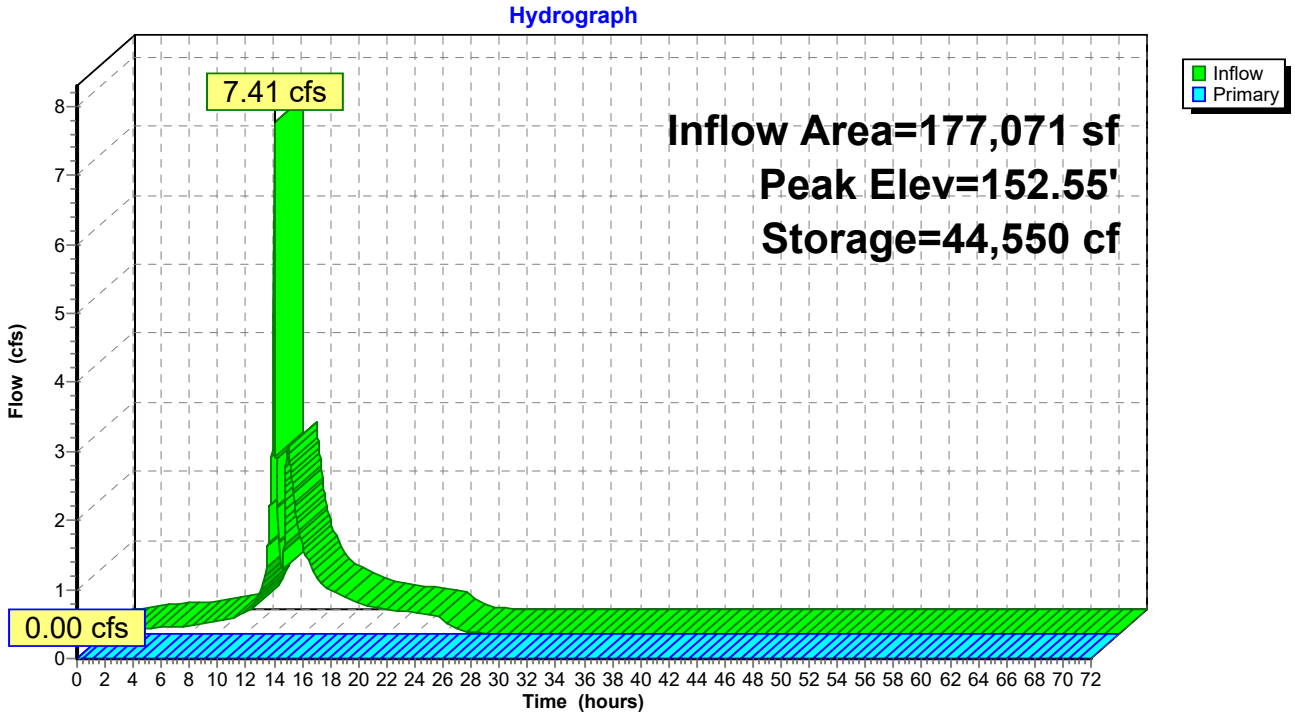
Volume	Invert	Avail.Storage	Storage Description
#1	150.50'	211,473 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.50	13,884	0	0
151.00	21,491	8,844	8,844
151.50	22,475	10,992	19,835
152.00	23,686	11,540	31,376
152.50	24,504	12,048	43,423
153.00	25,550	12,514	55,937
153.50	26,612	13,041	68,977
154.00	27,691	13,576	82,553
154.50	28,785	14,119	96,672
155.00	29,903	14,672	111,344
155.50	31,034	15,234	126,578
156.00	32,184	15,805	142,383
156.50	33,348	16,383	158,766
157.00	34,530	16,970	175,735
157.50	35,731	17,565	193,300
158.00	36,958	18,172	211,473

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.50' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 45P: Basin 2A Infiltration



Summary for Pond 46P: Basin 1B Infiltration

Inflow Area = 156,153 sf, 89.68% Impervious, Inflow Depth = 3.20" for 10-year_projected event
Inflow = 4.70 cfs @ 12.66 hrs, Volume= 41,645 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 150.35' @ 66.48 hrs Surf.Area= 19,496 sf Storage= 41,645 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

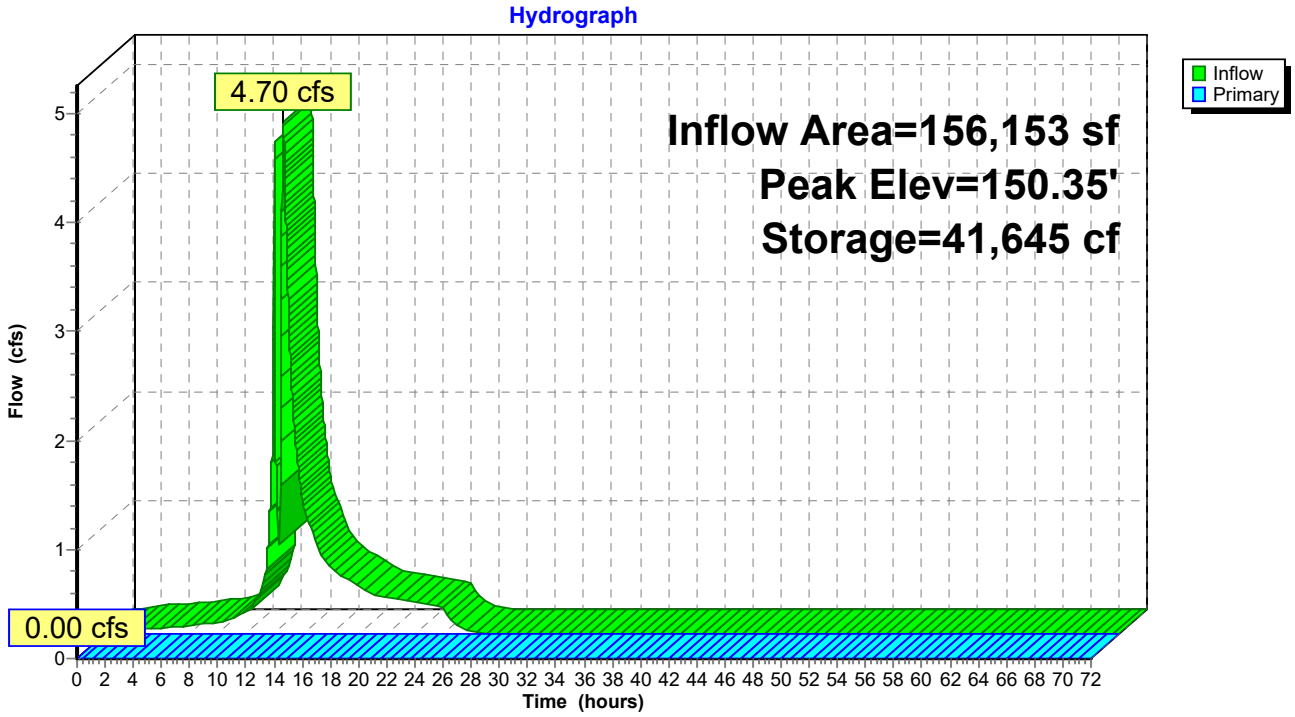
Volume	Invert	Avail.Storage	Storage Description
#1	147.98'	135,038 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.98	15,656	0	0
148.40	16,310	6,713	6,713
148.90	17,103	8,353	15,066
149.40	17,911	8,754	23,820
149.90	18,735	9,162	32,981
150.40	19,574	9,577	42,558
150.90	20,428	10,001	52,559
151.40	21,297	10,431	62,990
151.90	22,181	10,870	73,860
152.40	23,080	11,315	85,175
152.90	23,993	11,768	96,943
153.40	24,920	12,228	109,171
153.90	25,863	12,696	121,867
154.40	26,819	13,171	135,038

Device	Routing	Invert	Outlet Devices
#1	Primary	153.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.98' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 46P: Basin 1B Infiltration



Summary for Pond 48P: Basin 1A Infiltration Basin

Inflow Area = 562,771 sf, 15.53% Impervious, Inflow Depth = 1.31" for 10-year_projected event
Inflow = 8.76 cfs @ 12.09 hrs, Volume= 61,317 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 152.50' @ 72.00 hrs Surf.Area= 27,316 sf Storage= 61,316 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

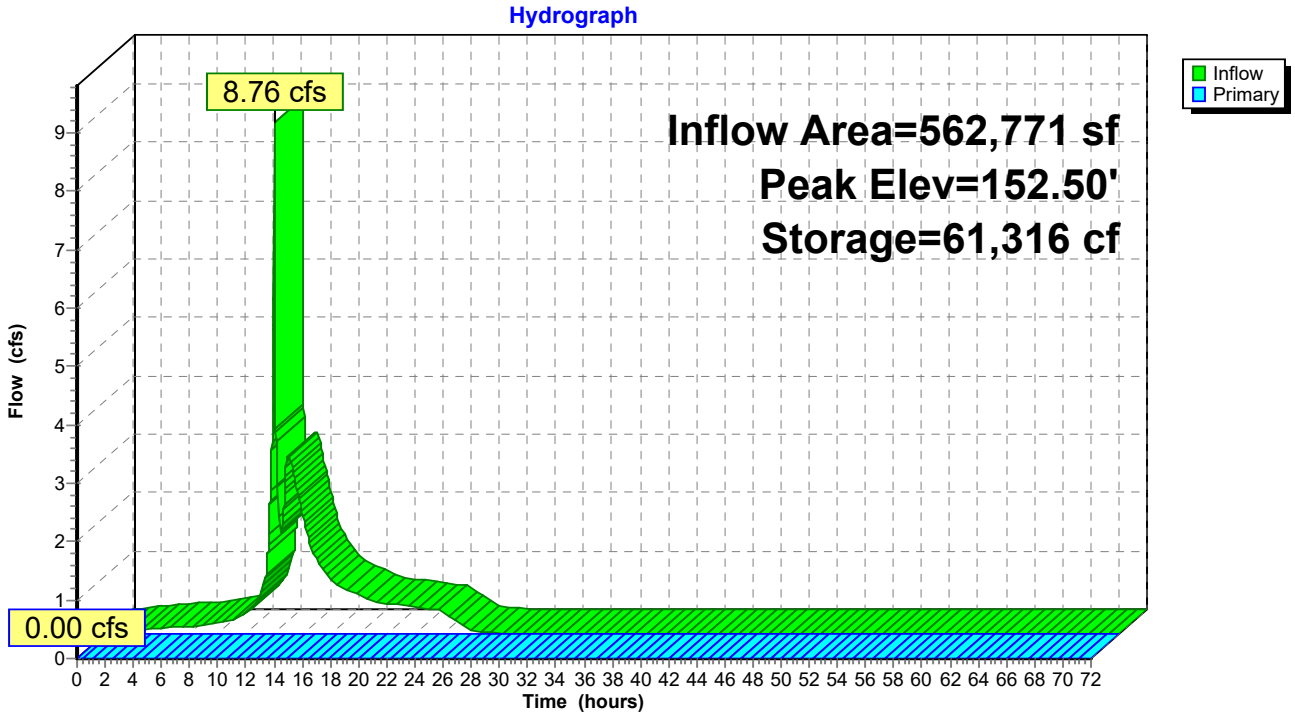
Volume	Invert	Avail.Storage	Storage Description
#1	150.00'	298,930 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.00	21,799	0	0
150.20	22,236	4,403	4,403
150.70	23,295	11,383	15,786
151.20	24,380	11,919	27,705
151.70	25,491	12,468	40,173
152.20	26,624	13,029	53,201
152.70	27,774	13,600	66,801
153.20	28,940	14,179	80,979
153.70	30,120	14,765	95,744
154.20	31,316	15,359	111,103
154.70	32,526	15,961	127,064
155.20	33,749	16,569	143,633
155.70	34,987	17,184	160,817
156.20	36,240	17,807	178,623
156.70	37,506	18,437	197,060
157.20	38,786	19,073	216,133
157.70	40,081	19,717	235,850
158.20	41,390	20,368	256,217
158.70	42,718	21,027	277,244
159.20	44,026	21,686	298,930

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' (Free Discharge)
↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 48P: Basin 1A Infiltration Basin



Summary for Pond 51P: Basin 4 Bioretention

[79] Warning: Submerged Pond 39P Primary device # 1 INLET by 1.69'

Inflow Area = 148,627 sf, 52.11% Impervious, Inflow Depth = 2.88" for 10-year_projected event
Inflow = 6.44 cfs @ 12.34 hrs, Volume= 35,725 cf
Outflow = 2.67 cfs @ 12.81 hrs, Volume= 21,203 cf, Atten= 58%, Lag= 28.5 min
Primary = 2.67 cfs @ 12.81 hrs, Volume= 21,203 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 156.69' @ 12.81 hrs Surf.Area= 6,259 sf Storage= 15,738 cf

Plug-Flow detention time= 231.4 min calculated for 21,203 cf (59% of inflow)
Center-of-Mass det. time= 107.9 min (970.2 - 862.3)

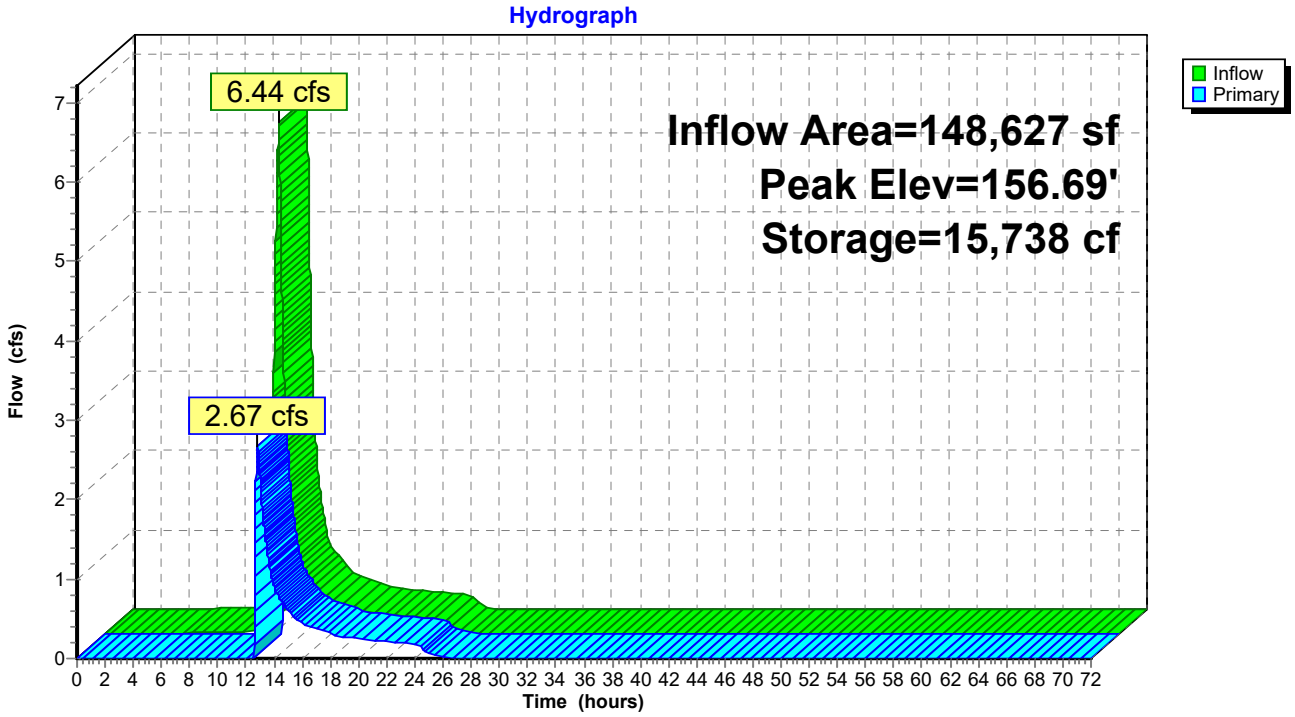
Volume	Invert	Avail.Storage	Storage Description
#1	153.00'	36,070 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.00	2,922	0	0
153.90	3,287	2,794	2,794
154.40	3,735	1,756	4,550
154.90	4,199	1,984	6,533
155.40	4,678	2,219	8,752
155.90	5,172	2,463	11,215
156.40	5,682	2,714	13,928
156.50	6,207	594	14,523
156.90	6,314	2,504	17,027
157.40	6,748	3,266	20,292
157.90	7,305	3,513	23,806
158.40	7,877	3,796	27,601
158.90	8,465	4,086	31,687
159.40	9,068	4,383	36,070

Device	Routing	Invert	Outlet Devices
#1	Device 2	156.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	153.00'	**24.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 153.00' / 152.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=2.65 cfs @ 12.81 hrs HW=156.69' (Free Discharge)
↑**2=Culvert** (Passes 2.65 cfs of 19.60 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 2.65 cfs @ 1.44 fps)

Pond 51P: Basin 4 Bioretention



Summary for Pond 52P: Basin 4 Infiltration

[79] Warning: Submerged Pond 51P Primary device # 2 INLET by 2.40'

Inflow Area = 180,774 sf, 56.17% Impervious, Inflow Depth = 2.28" for 10-year_projected event
Inflow = 3.67 cfs @ 12.09 hrs, Volume= 34,411 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 155.40' @ 67.99 hrs Surf.Area= 14,454 sf Storage= 34,411 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

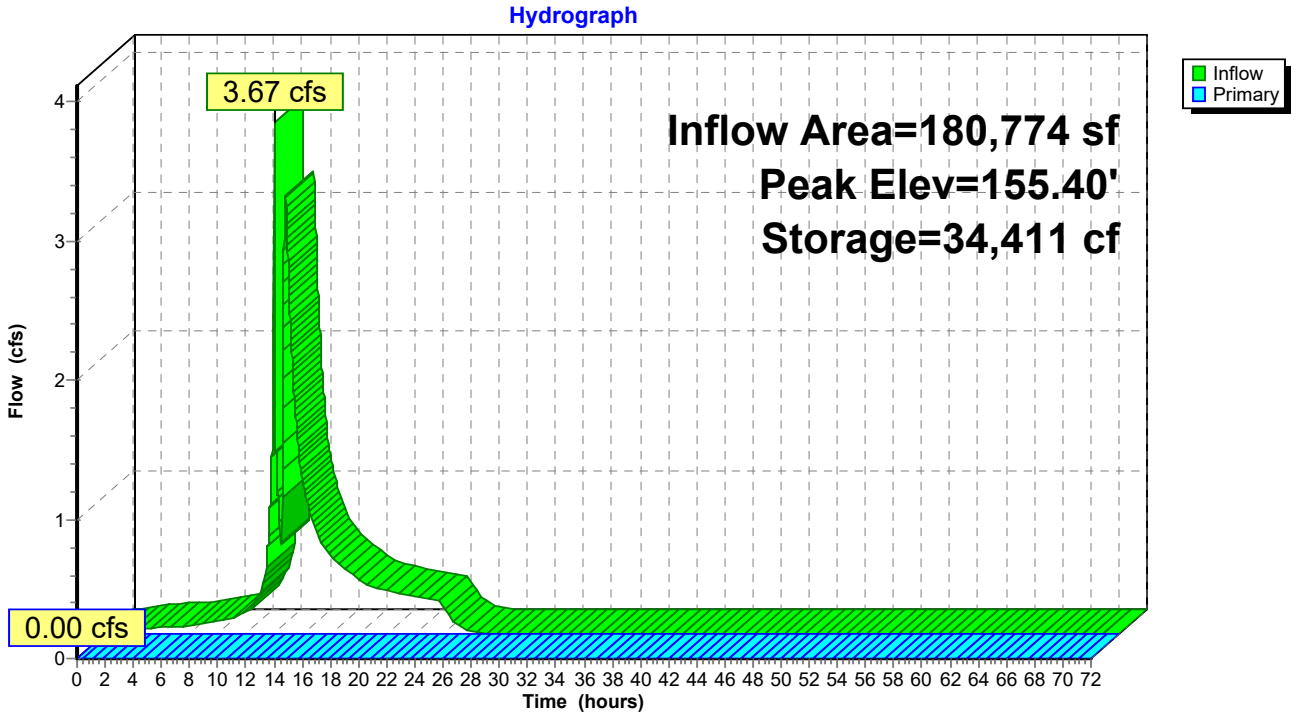
Volume	Invert	Avail.Storage	Storage Description
#1	152.40'	98,072 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
152.40	8,570	0	0
152.90	9,506	4,519	4,519
153.40	10,459	4,991	9,510
153.90	11,430	5,472	14,983
154.40	12,419	5,962	20,945
154.90	13,426	6,461	27,406
155.40	14,449	6,969	34,375
155.90	15,490	7,485	41,860
156.40	16,547	8,009	49,869
156.90	17,620	8,542	58,411
157.40	18,711	9,083	67,493
157.90	19,818	9,632	77,126
158.40	20,943	10,190	87,316
158.90	22,081	10,756	98,072

Device	Routing	Invert	Outlet Devices
#1	Primary	158.80'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.40' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 52P: Basin 4 Infiltration



Summary for Pond 60P: Basin 3 Bioretention

[81] Warning: Exceeded Pond 38P by 1.00' @ 24.87 hrs

Inflow Area = 110,642 sf, 4.41% Impervious, Inflow Depth = 1.98" for 10-year_projected event
Inflow = 3.70 cfs @ 12.43 hrs, Volume= 18,240 cf
Outflow = 0.14 cfs @ 22.98 hrs, Volume= 1,260 cf, Atten= 96%, Lag= 633.0 min
Primary = 0.14 cfs @ 22.98 hrs, Volume= 1,260 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 146.52' @ 22.98 hrs Surf.Area= 6,357 sf Storage= 17,106 cf

Plug-Flow detention time= 785.4 min calculated for 1,260 cf (7% of inflow)
Center-of-Mass det. time= 505.3 min (1,410.4 - 905.1)

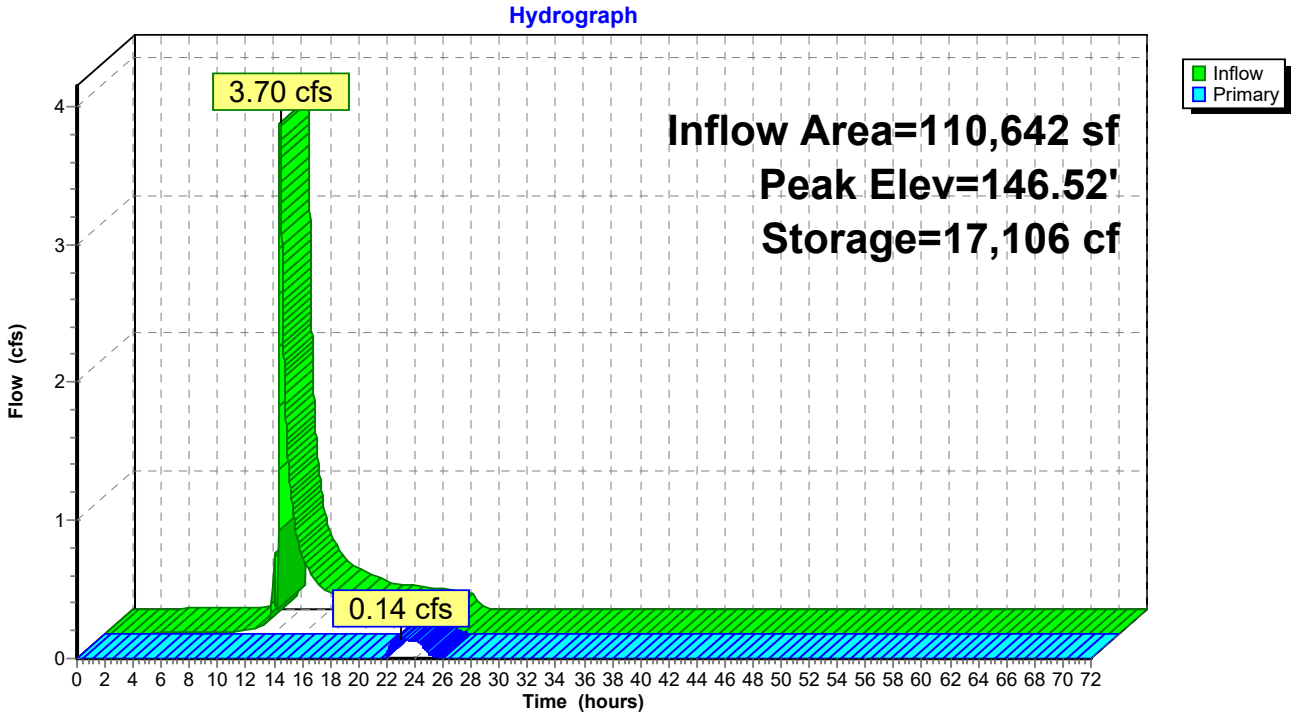
Volume	Invert	Avail.Storage	Storage Description
#1	143.00'	27,552 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.00	3,477	0	0
143.50	3,844	1,830	1,830
144.00	4,224	2,017	3,847
144.50	4,619	2,211	6,058
145.00	5,028	2,412	8,470
145.50	5,450	2,620	11,089
146.00	5,887	2,834	13,924
146.50	6,339	3,057	16,980
147.00	6,804	3,286	20,266
147.50	7,283	3,522	23,788
148.00	7,776	3,765	27,552

Device	Routing	Invert	Outlet Devices
#1	Primary	146.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Device 1	143.00'	**18.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 143.00' / 142.00' S= 0.0227 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.09 cfs @ 22.98 hrs HW=146.52' (Free Discharge)
↑**1=Orifice/Grate** (Weir Controls 0.09 cfs @ 0.46 fps)
↑**2=Culvert** (Passes 0.09 cfs of 0.95 cfs potential flow)

Pond 60P: Basin 3 Bioretention



Summary for Pond 61P: Basin 3 Infiltration

Inflow Area = 126,803 sf, 16.59% Impervious, Inflow Depth = 0.89" for 10-year_projected event
Inflow = 2.44 cfs @ 12.09 hrs, Volume= 9,369 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 142.83' @ 71.72 hrs Surf.Area= 11,765 sf Storage= 9,369 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

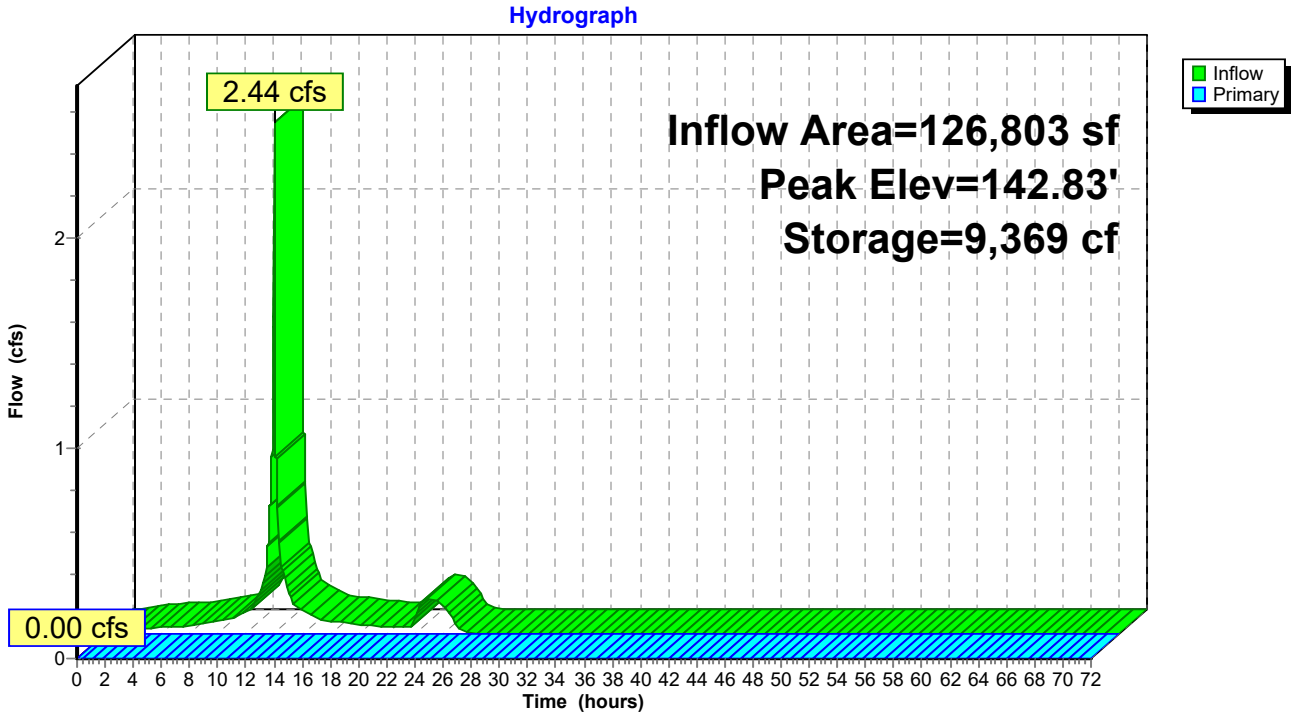
Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	66,946 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
142.00	10,684	0	0
142.30	11,069	3,263	3,263
142.80	11,719	5,697	8,960
143.30	12,382	6,025	14,985
143.80	13,060	6,361	21,346
144.30	13,752	6,703	28,049
144.80	14,458	7,053	35,101
145.30	15,177	7,409	42,510
145.80	15,912	7,772	50,282
146.30	16,660	8,143	58,425
146.80	17,422	8,521	66,946

Device	Routing	Invert	Outlet Devices
#1	Primary	146.30'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 61P: Basin 3 Infiltration



Summary for Pond 65P: Basin 2B Forebay

Inflow Area = 383,157 sf, 7.33% Impervious, Inflow Depth = 0.93" for 10-year_projected event
Inflow = 2.25 cfs @ 12.85 hrs, Volume= 29,546 cf
Outflow = 2.24 cfs @ 12.89 hrs, Volume= 25,482 cf, Atten= 0%, Lag= 2.3 min
Primary = 2.24 cfs @ 12.89 hrs, Volume= 25,482 cf
Routed to Pond 66P : Basin 2B Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.67' @ 12.89 hrs Surf.Area= 2,511 sf Storage= 4,490 cf

Plug-Flow detention time= 133.2 min calculated for 25,479 cf (86% of inflow)
Center-of-Mass det. time= 60.7 min (978.3 - 917.6)

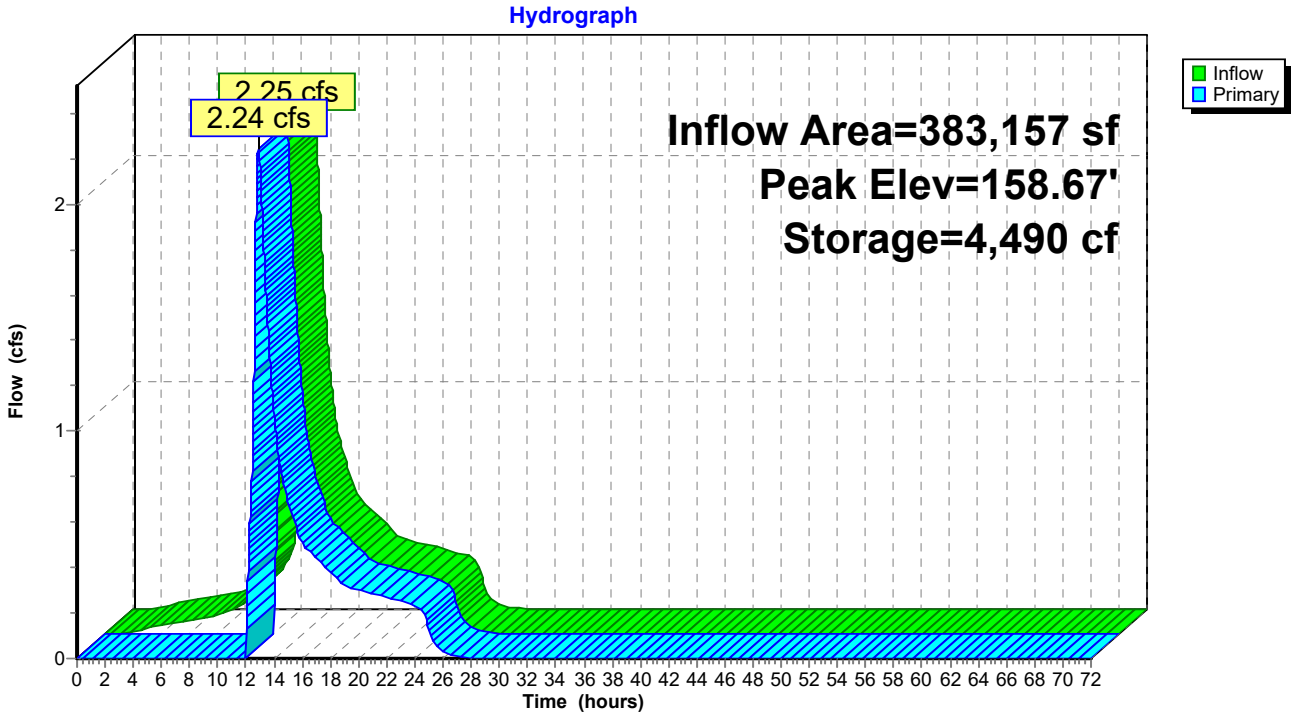
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	8,105 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	928	0	0
156.40	1,136	413	413
156.90	1,406	636	1,048
157.40	1,694	775	1,823
157.90	2,000	924	2,747
158.40	2,324	1,081	3,828
158.50	2,391	236	4,064
158.90	2,666	1,011	5,075
159.40	3,026	1,423	6,498
159.90	3,404	1,608	8,105

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf
#3	Primary	159.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=2.23 cfs @ 12.89 hrs HW=158.67' (Free Discharge)
└**2=Culvert** (Passes 2.23 cfs of 15.45 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 2.23 cfs @ 1.36 fps)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 65P: Basin 2B Forebay



Summary for Pond 66P: Basin 2B Infiltration Basin

Inflow Area = 435,255 sf, 18.42% Impervious, Inflow Depth = 1.42" for 10-year_projected event
Inflow = 7.91 cfs @ 12.09 hrs, Volume= 51,625 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 152.51' @ 72.00 hrs Surf.Area= 36,274 sf Storage= 51,625 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

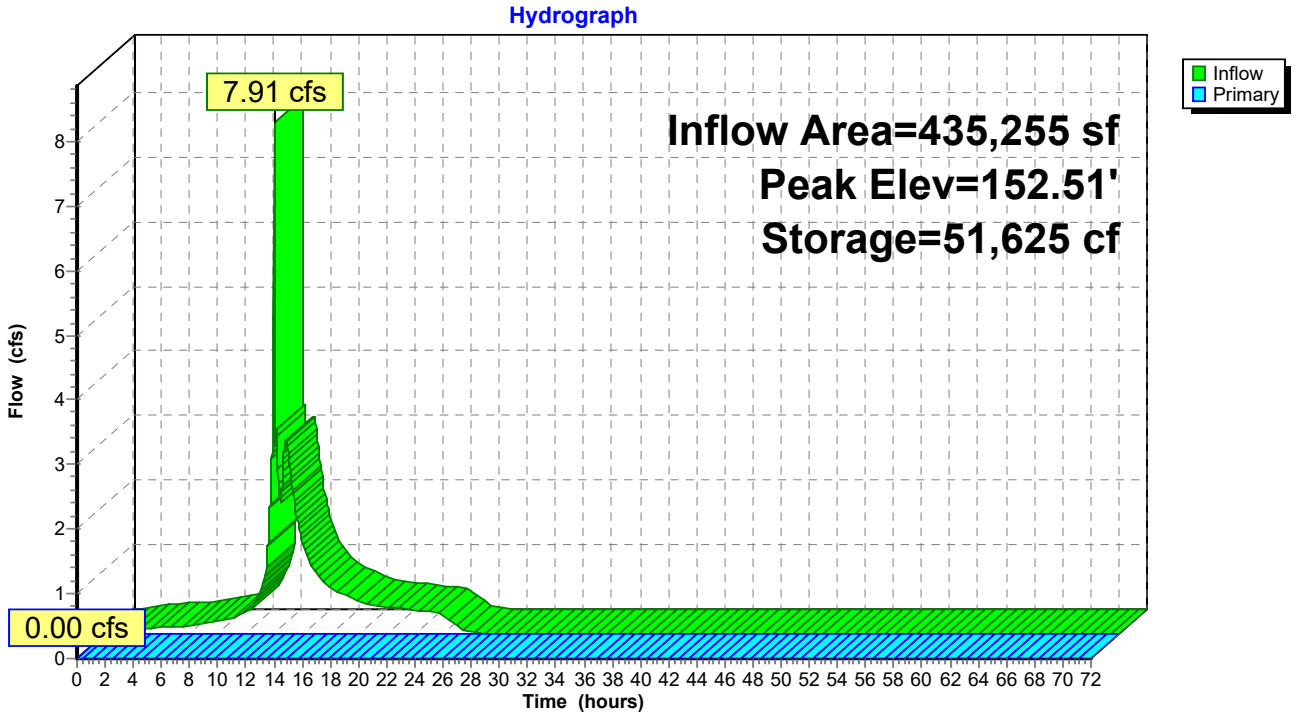
Volume	Invert	Avail.Storage	Storage Description
#1	151.00'	213,861 cf	**Basin 2B Infiltration Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
151.00	32,211	0	0
151.40	33,314	13,105	13,105
151.90	34,642	16,989	30,094
152.40	35,983	17,656	47,750
152.90	37,338	18,330	66,081
153.40	38,708	19,012	85,092
153.90	40,091	19,700	104,792
154.40	41,489	20,395	125,187
154.90	42,901	21,098	146,284
155.40	44,326	21,807	168,091
155.90	45,767	22,523	190,614
156.40	47,221	23,247	213,861

Device	Routing	Invert	Outlet Devices
#1	Primary	155.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=151.00' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 66P: Basin 2B Infiltration Basin



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 23S: Basin 1B Runoff Area=2.391 ac 91.22% Impervious Runoff Depth=10.21"
Flow Length=373' Tc=3.0 min CN=WQ Runoff=26.14 cfs 88,605 cf

Subcatchment 24S: Basin 2A West Runoff Area=1.263 ac 69.91% Impervious Runoff Depth=8.46"
Flow Length=246' Tc=2.1 min CN=WQ Runoff=11.69 cfs 38,797 cf

Subcatchment 25S: Basin 2A East Runoff Area=1.175 ac 71.06% Impervious Runoff Depth=8.56"
Flow Length=370' Tc=3.3 min CN=WQ Runoff=10.81 cfs 36,496 cf

Subcatchment 29S: Basin 2B West Runoff Area=4.192 ac 6.25% Impervious Runoff Depth=3.24"
Flow Length=525' Slope=0.0307 '/' Tc=16.5 min CN=WQ Runoff=9.86 cfs 49,350 cf

Subcatchment 30S: Basin 1A Central Runoff Area=5.749 ac 6.24% Impervious Runoff Depth=3.24"
Flow Length=512' Tc=16.8 min CN=WQ Runoff=13.38 cfs 67,670 cf

Subcatchment 31S: Basin 2B East Runoff Area=195,980 sf 6.17% Impervious Runoff Depth=3.24"
Flow Length=489' Slope=0.0301 '/' Tc=16.1 min CN=WQ Runoff=10.65 cfs 52,852 cf

Subcatchment 32S: undeveloped run on to Runoff Area=3,384 sf 0.00% Impervious Runoff Depth=5.13"
Tc=0.0 min CN=55 Runoff=0.55 cfs 1,447 cf

Subcatchment 33S: undeveloped run on to Runoff Area=3,576 sf 0.00% Impervious Runoff Depth=5.13"
Tc=0.0 min CN=55 Runoff=0.58 cfs 1,529 cf

Subcatchment 37S: Basin 3 Runoff Area=2.428 ac 0.00% Impervious Runoff Depth=6.13"
Flow Length=359' Tc=14.3 min CN=WQ Runoff=12.71 cfs 54,024 cf

Subcatchment 39S: Basin 1A East Runoff Area=182,579 sf 6.17% Impervious Runoff Depth=3.24"
Flow Length=413' Tc=15.2 min CN=WQ Runoff=10.18 cfs 49,238 cf

Subcatchment 40S: Basin 1A West Runoff Area=1.696 ac 6.25% Impervious Runoff Depth=3.24"
Flow Length=256' Slope=0.0267 '/' Tc=13.7 min CN=WQ Runoff=4.32 cfs 19,966 cf

Subcatchment 41S: Basin 4 East Runoff Area=0.868 ac 57.37% Impervious Runoff Depth=7.43"
Flow Length=329' Tc=3.1 min CN=WQ Runoff=7.03 cfs 23,424 cf

Subcatchment 42S: Basin 4 West Runoff Area=1.605 ac 65.73% Impervious Runoff Depth=8.12"
Flow Length=255' Slope=0.0284 '/' Tc=1.7 min CN=WQ Runoff=14.34 cfs 47,305 cf

Subcatchment 46S: Direct Rainfall Basin Runoff Area=0.311 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=3.65 cfs 12,338 cf

Subcatchment 47S: Direct Rainfall Basin Runoff Area=1.128 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=13.25 cfs 44,749 cf

Subcatchment 48S: Direct Rainfall Basin Runoff Area=0.191 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=2.24 cfs 7,577 cf

Subcatchment 49S: Direct Rainfall Basin Runoff Area=1.208 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=14.19 cfs 47,923 cf

Subcatchment 50S: Direct Rainfall Basin Runoff Area=0.690 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=8.10 cfs 27,373 cf

Subcatchment 52S: Direct Rainfall Basin Runoff Area=0.075 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=0.88 cfs 2,975 cf

Subcatchment 54S: Direct Rainfall Basin Runoff Area=8,189 sf 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=2.21 cfs 7,458 cf

Subcatchment 55S: Direct Rainfall Basin Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=0.27 cfs 912 cf

Subcatchment 56S: Direct Rainfall Basin Runoff Area=0.153 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=1.80 cfs 6,070 cf

Subcatchment 57S: Direct Rainfall Basin Runoff Area=0.119 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=1.40 cfs 4,721 cf

Subcatchment 58S: Direct forest Runoff Area=0.714 ac 0.00% Impervious Runoff Depth=5.13"
Flow Length=234' Tc=38.0 min CN=55 Runoff=2.00 cfs 13,297 cf

Subcatchment 59S: Direct Rainfall Basin Runoff Area=0.553 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=6.49 cfs 21,938 cf

Subcatchment 62S: Direct Rainfall Basin Runoff Area=0.371 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=4.36 cfs 14,718 cf

Subcatchment 65S: Direct Rainfall Basin Runoff Area=0.089 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=1.05 cfs 3,531 cf

Subcatchment 69S: Direct Rainfall Basin Runoff Area=0.105 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=1.23 cfs 4,166 cf

Subcatchment 70S: Direct Rainfall Basin Runoff Area=1.196 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=14.05 cfs 47,447 cf

Subcatchment 71S: Direct Rainfall to Runoff Area=0.106 ac 100.00% Impervious Runoff Depth=10.93"
Tc=0.0 min CN=98 Runoff=1.24 cfs 4,205 cf

Subcatchment 74S: Direct forest runoff to Runoff Area=0.185 ac 0.00% Impervious Runoff Depth=5.13"
Flow Length=152' Tc=29.5 min CN=55 Runoff=0.59 cfs 3,445 cf

Reach 29R: DA1A East Swale Avg. Flow Depth=0.69' Max Vel=0.78 fps Inflow=10.18 cfs 49,238 cf
n=0.080 L=835.0' S=0.0073 '/' Capacity=113.94 cfs Outflow=6.57 cfs 49,238 cf

Reach 30R: DA1A West Swale Avg. Flow Depth=0.90' Max Vel=0.67 fps Inflow=13.76 cfs 87,636 cf
n=0.080 L=650.0' S=0.0038 '/' Capacity=82.67 cfs Outflow=9.75 cfs 87,636 cf

Reach 31R: DA2B East Swale Avg. Flow Depth=0.71' Max Vel=0.84 fps Inflow=10.65 cfs 52,852 cf
n=0.080 L=737.0' S=0.0083 '/' Capacity=121.27 cfs Outflow=7.55 cfs 52,852 cf

Reach 33R: DA2B West Swale Avg. Flow Depth=0.83' Max Vel=0.64 fps Inflow=9.86 cfs 49,350 cf
n=0.080 L=384.0' S=0.0039 '/' Capacity=83.31 cfs Outflow=7.91 cfs 49,350 cf

Reach 34R: DA4 West Swale Avg. Flow Depth=0.91' Max Vel=0.71 fps Inflow=14.34 cfs 47,305 cf
n=0.080 L=357.0' S=0.0042 '/' Capacity=86.41 cfs Outflow=10.56 cfs 47,305 cf

Reach 35R: DA2A West Swale Avg. Flow Depth=0.77' Max Vel=0.74 fps Inflow=11.69 cfs 38,797 cf
n=0.080 L=478.0' S=0.0056 '/' Capacity=100.19 cfs Outflow=7.83 cfs 38,797 cf

Reach 36R: DA2A East Swale Avg. Flow Depth=0.69' Max Vel=1.20 fps Inflow=10.81 cfs 36,496 cf
n=0.080 L=146.0' S=0.0171 '/' Capacity=174.43 cfs Outflow=10.31 cfs 36,496 cf

Reach 37R: DA1B Swale Avg. Flow Depth=1.12' Max Vel=0.91 fps Inflow=26.14 cfs 88,605 cf
n=0.080 L=383.0' S=0.0052 '/' Capacity=96.33 cfs Outflow=20.27 cfs 88,605 cf

Reach 38R: DA3 Swale Avg. Flow Depth=1.14' Max Vel=3.19 fps Inflow=12.71 cfs 54,024 cf
n=0.049 L=418.0' S=0.0251 '/' Capacity=55.69 cfs Outflow=12.40 cfs 54,024 cf

Reach 39R: DA 1A Central Swale A Avg. Flow Depth=0.54' Max Vel=0.55 fps Inflow=4.32 cfs 19,966 cf
n=0.080 L=498.0' S=0.0050 '/' Capacity=94.45 cfs Outflow=2.90 cfs 19,966 cf

Reach 41R: DA 1A Central Swale B Avg. Flow Depth=0.76' Max Vel=1.68 fps Inflow=2.90 cfs 19,966 cf
n=0.080 L=188.0' S=0.0319 '/' Capacity=38.45 cfs Outflow=2.88 cfs 19,966 cf

Reach 42R: DA4 East Swale Avg. Flow Depth=0.62' Max Vel=0.97 fps Inflow=7.03 cfs 23,424 cf
n=0.080 L=114.0' S=0.0132 '/' Capacity=152.91 cfs Outflow=6.71 cfs 23,424 cf

Reach 43R: DA4 Roadside swale Avg. Flow Depth=0.70' Max Vel=2.91 fps Inflow=10.56 cfs 47,305 cf
n=0.049 L=103.0' S=0.0243 '/' Capacity=73.85 cfs Outflow=10.49 cfs 47,305 cf

Reach 44R: DA4 Culvert Inflow=10.49 cfs 47,305 cf
Outflow=10.49 cfs 47,305 cf

Reach 45R: DA2B Road Swale Avg. Flow Depth=0.00' Max Vel=0.00 fps
n=0.080 L=296.0' S=0.0287 '/' Capacity=36.47 cfs Outflow=0.00 cfs 0 cf

Pond 15P: Basin 1A Forebay Peak Elev=159.24' Storage=3,964 cf Inflow=16.41 cfs 139,850 cf
Outflow=16.67 cfs 136,612 cf

Pond 18P: Basin 1B Forebay Peak Elev=159.75' Storage=16,786 cf Inflow=20.87 cfs 96,122 cf
Primary=11.64 cfs 84,317 cf Secondary=3.42 cfs 1,795 cf Outflow=15.06 cfs 86,112 cf

Pond 26P: Basin 2A Forebay Peak Elev=158.48' Storage=11,322 cf Inflow=14.82 cfs 82,750 cf
Primary=8.83 cfs 72,317 cf Secondary=3.96 cfs 3,187 cf Outflow=12.79 cfs 75,504 cf

Pond 38P: Basin 3 Forebay Peak Elev=146.40' Storage=9,539 cf Inflow=12.47 cfs 54,936 cf
Primary=8.63 cfs 49,147 cf Secondary=0.84 cfs 330 cf Outflow=9.47 cfs 49,478 cf

Pond 39P: Basin 4 Forebay Peak Elev=158.70' Storage=12,263 cf Inflow=13.54 cfs 75,450 cf
Primary=11.54 cfs 66,240 cf Secondary=0.00 cfs 0 cf Outflow=11.54 cfs 66,240 cf

Pond 43P: Basin 1B Bioretention	Peak Elev=158.03' Storage=24,014 cf Inflow=12.43 cfs 93,423 cf Outflow=12.04 cfs 73,437 cf
Pond 44P: Basin 2A Bioretention	Peak Elev=157.96' Storage=26,666 cf Inflow=11.92 cfs 84,655 cf Outflow=9.64 cfs 61,971 cf
Pond 45P: Basin 2A Infiltration	Peak Elev=154.95' Storage=109,906 cf Inflow=21.56 cfs 109,908 cf Outflow=0.00 cfs 0 cf
Pond 46P: Basin 1B Infiltration	Peak Elev=153.13' Storage=102,604 cf Inflow=18.11 cfs 102,605 cf Outflow=0.00 cfs 0 cf
Pond 48P: Basin 1A Infiltration Basin	Peak Elev=156.36' Storage=184,534 cf Inflow=18.23 cfs 184,535 cf Outflow=0.00 cfs 0 cf
Pond 51P: Basin 4 Bioretention	Peak Elev=157.07' Storage=18,116 cf Inflow=13.38 cfs 83,742 cf Outflow=13.29 cfs 69,219 cf
Pond 52P: Basin 4 Infiltration	Peak Elev=158.74' Storage=94,602 cf Inflow=15.00 cfs 94,603 cf Outflow=0.00 cfs 0 cf
Pond 60P: Basin 3 Bioretention	Peak Elev=147.09' Storage=20,911 cf Inflow=8.82 cfs 52,678 cf Outflow=5.18 cfs 35,698 cf
Pond 61P: Basin 3 Infiltration	Peak Elev=145.83' Storage=50,746 cf Inflow=5.65 cfs 50,747 cf Outflow=0.00 cfs 0 cf
Pond 65P: Basin 2B Forebay	Peak Elev=159.12' Storage=5,681 cf Inflow=15.14 cfs 106,367 cf Outflow=15.07 cfs 102,304 cf
Pond 66P: Basin 2B Infiltration Basin	Peak Elev=154.98' Storage=149,750 cf Inflow=16.74 cfs 149,751 cf Outflow=0.00 cfs 0 cf

Total Runoff Area = 1,638,827 sf Runoff Volume = 805,547 cf Average Runoff Depth = 5.90"
64.86% Pervious = 1,062,927 sf 35.14% Impervious = 575,900 sf

Summary for Subcatchment 23S: Basin 1B

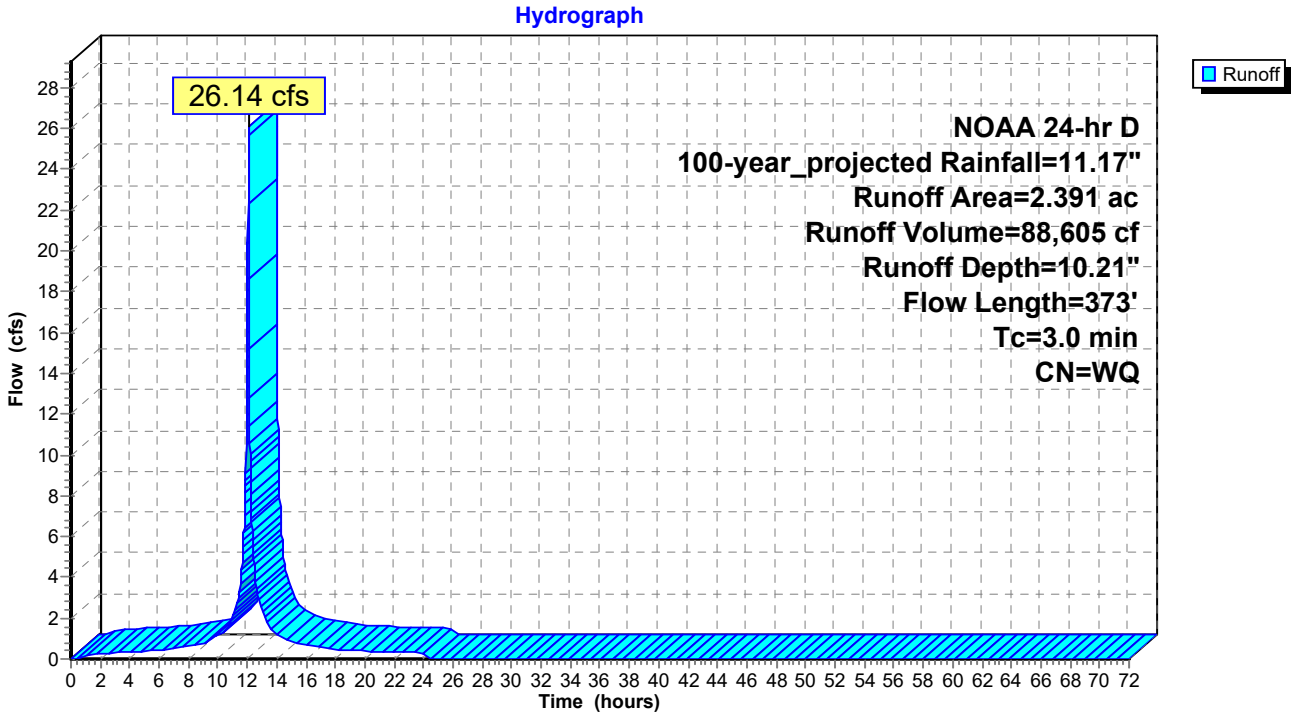
Runoff = 26.14 cfs @ 12.11 hrs, Volume= 88,605 cf, Depth=10.21"
Routed to Reach 37R : DA1B Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
	0.210	39	>75% Grass cover, Good, HSG A
*	0.084	98	gravel road
*	2.097	98	compost/recycling area
	2.391		Weighted Average
	0.210	39	8.78% Pervious Area
	2.181	98	91.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0282	1.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
1.0	195	0.0282	3.41		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.1	78	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.0	373	Total			

Subcatchment 23S: Basin 1B



Summary for Subcatchment 24S: Basin 2A West

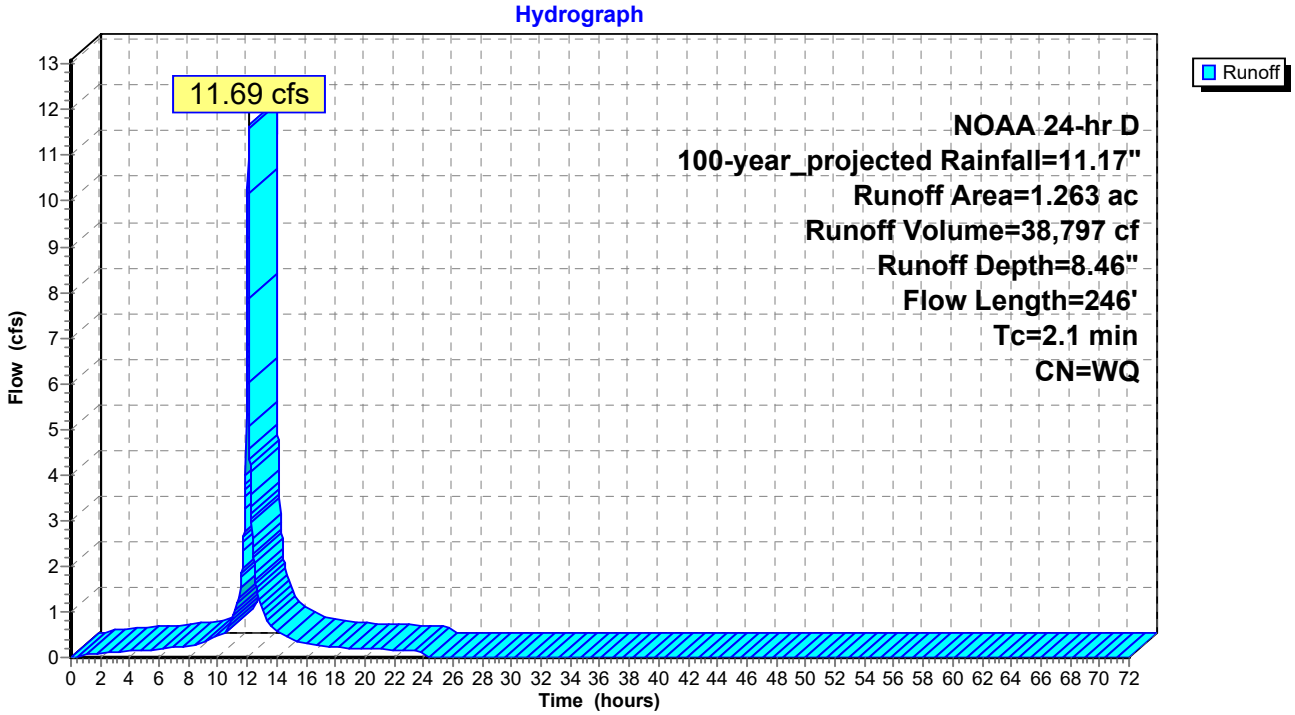
Runoff = 11.69 cfs @ 12.10 hrs, Volume= 38,797 cf, Depth= 8.46"
Routed to Reach 35R : DA2A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.380	39	grass cover
*	0.883	98	compost area
	1.263		Weighted Average
	0.380	39	30.09% Pervious Area
	0.883	98	69.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0303	1.82		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.4	85	0.0303	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.8	61	0.0309	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	246	Total			

Subcatchment 24S: Basin 2A West



Summary for Subcatchment 25S: Basin 2A East

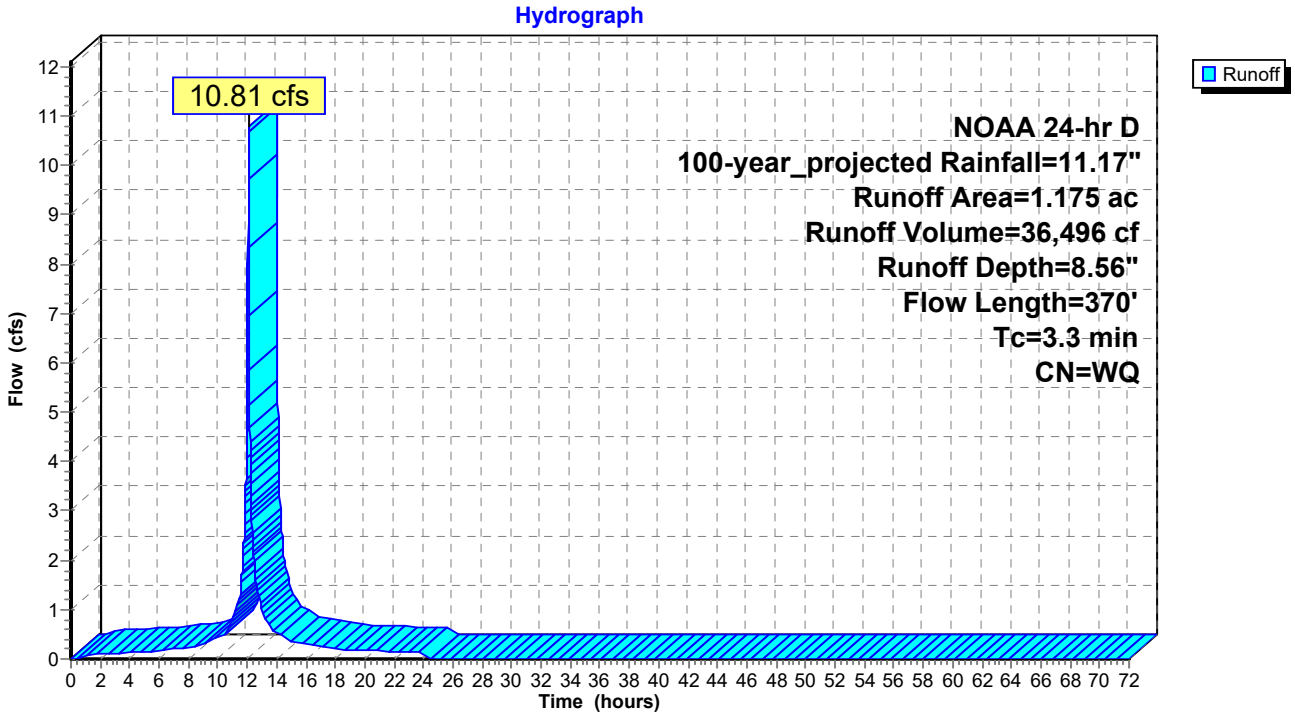
Runoff = 10.81 cfs @ 12.11 hrs, Volume= 36,496 cf, Depth= 8.56"
Routed to Reach 36R : DA2A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.223	98	gravel road
*	0.612	98	compost area
*	0.340	39	grass cover
	1.175		Weighted Average
	0.340	39	28.94% Pervious Area
	0.835	98	71.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0300	1.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.6	136	0.0302	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	134	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	370	Total			

Subcatchment 25S: Basin 2A East



Summary for Subcatchment 29S: Basin 2B West

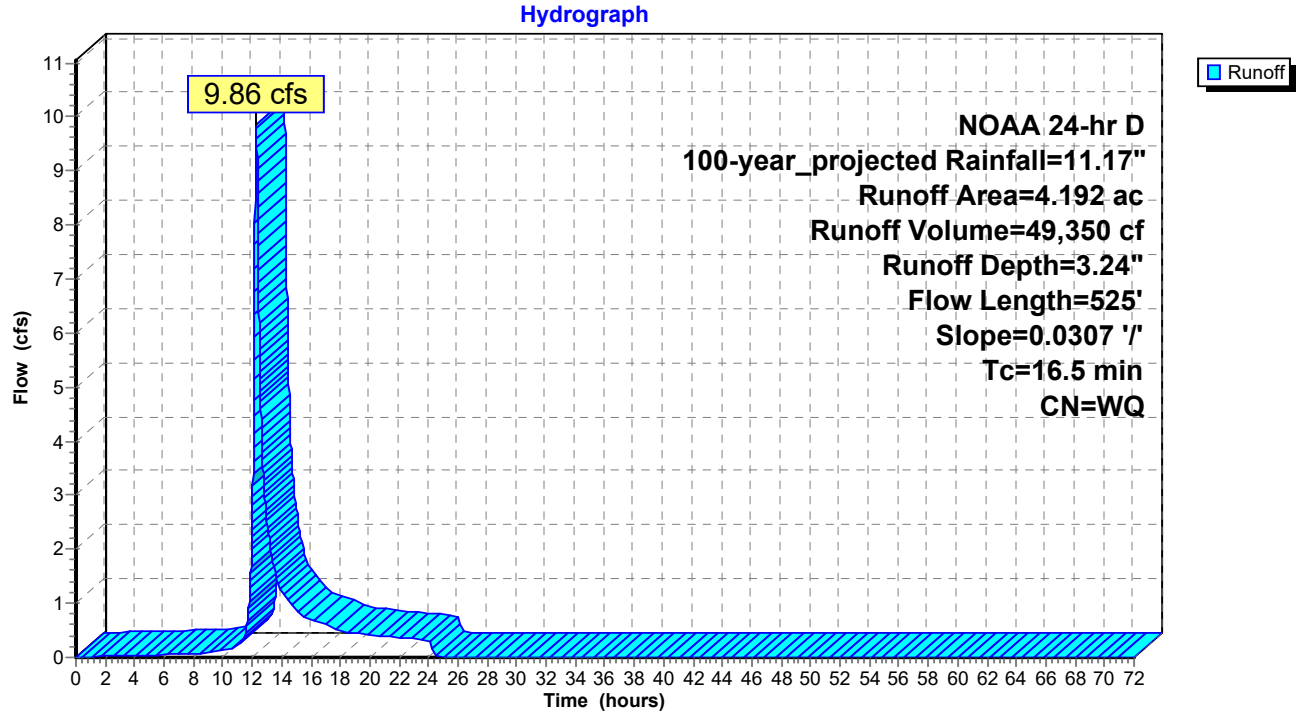
Runoff = 9.86 cfs @ 12.26 hrs, Volume= 49,350 cf, Depth= 3.24"
Routed to Reach 33R : DA2B West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
	3.930	39	>75% Grass cover, Good, HSG A
*	0.262	98	Solar
	4.192		Weighted Average
	3.930	39	93.75% Pervious Area
	0.262	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	100	0.0307	0.16		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.8	425	0.0307	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.5	525	Total			

Subcatchment 29S: Basin 2B West



Summary for Subcatchment 30S: Basin 1A Central

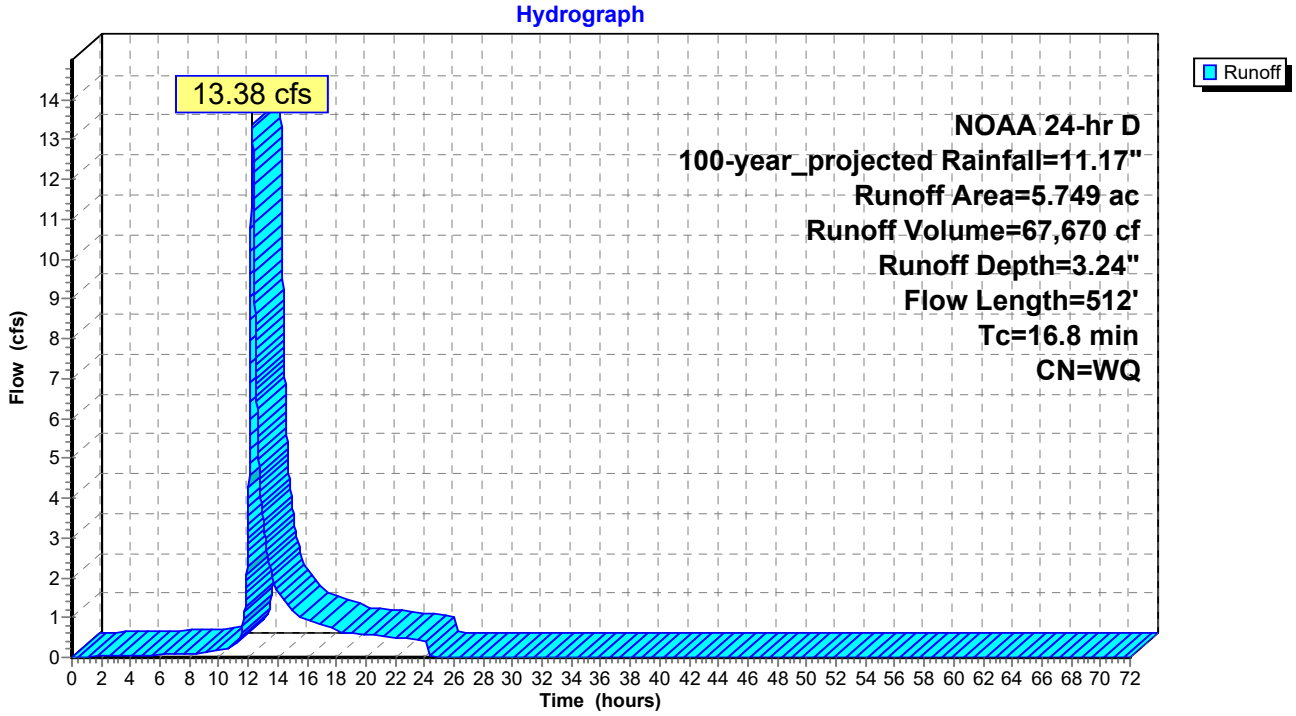
Runoff = 13.38 cfs @ 12.27 hrs, Volume= 67,670 cf, Depth= 3.24"
Routed to Reach 30R : DA1A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.359	98	solar
*	5.390	39	grass
	5.749		Weighted Average
	5.390	39	93.76% Pervious Area
	0.359	98	6.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	100	0.0291	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.8	412	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.8	512	Total			

Subcatchment 30S: Basin 1A Central



Summary for Subcatchment 31S: Basin 2B East

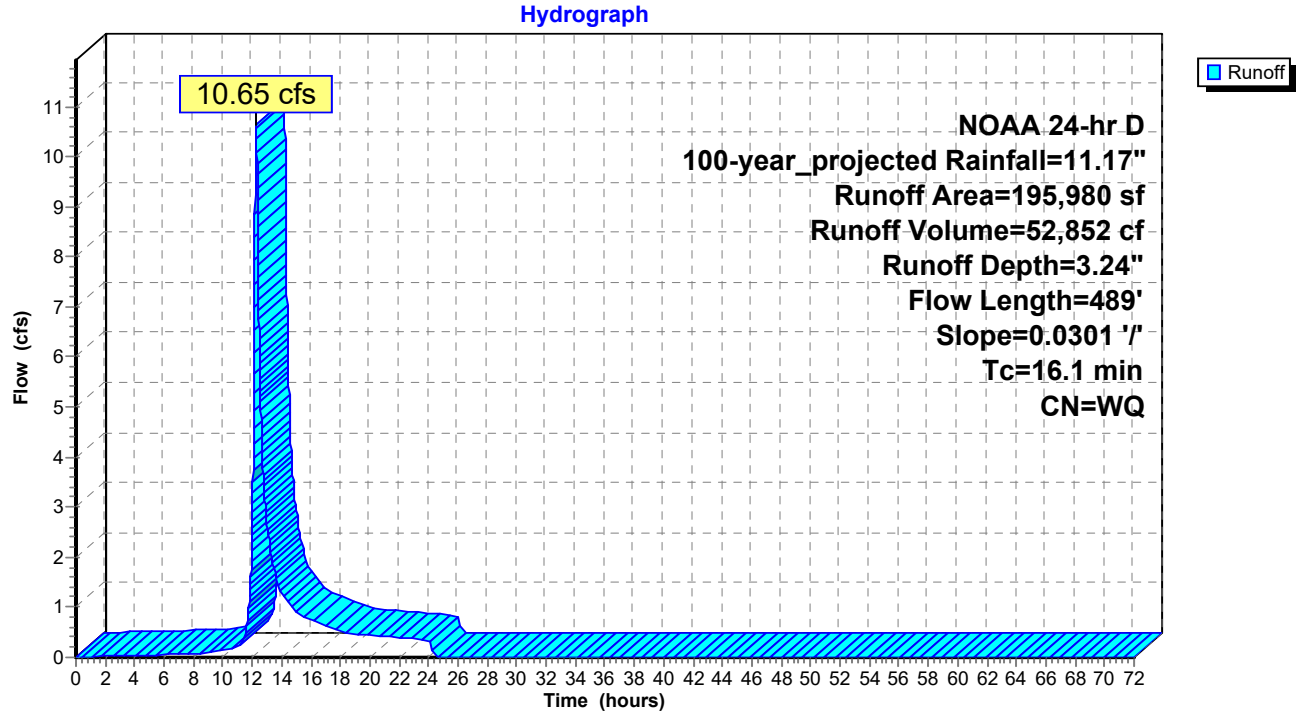
Runoff = 10.65 cfs @ 12.26 hrs, Volume= 52,852 cf, Depth= 3.24"
Routed to Reach 31R : DA2B East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (sf)	CN	Description
	183,896	39	>75% Grass cover, Good, HSG A
*	12,084	98	Solar
	195,980		Weighted Average
	183,896	39	93.83% Pervious Area
	12,084	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0301	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.3	389	0.0301	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.1	489	Total			

Subcatchment 31S: Basin 2B East



Summary for Subcatchment 32S: undeveloped run on to forebay

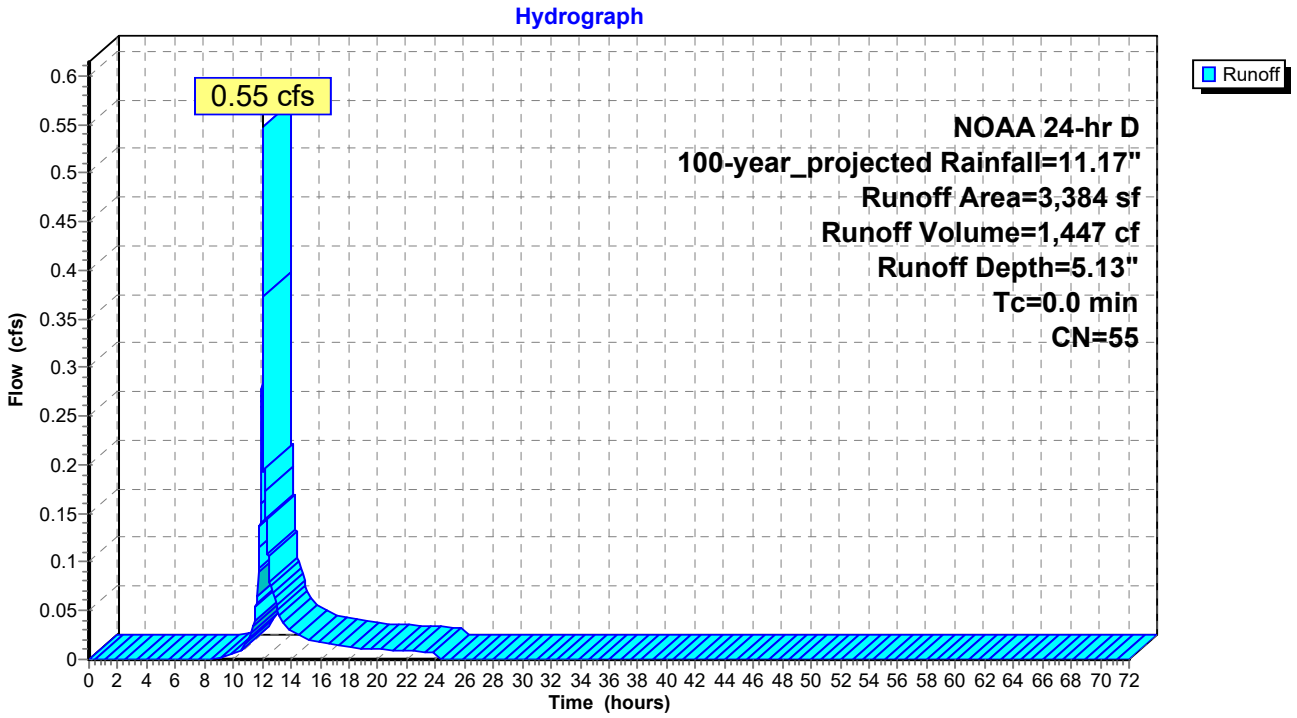
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.55 cfs @ 12.09 hrs, Volume= 1,447 cf, Depth= 5.13"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (sf)	CN	Description
*	3,384	55	
	3,384	55	100.00% Pervious Area

Subcatchment 32S: undeveloped run on to forebay



Summary for Subcatchment 33S: undeveloped run on to bioretention

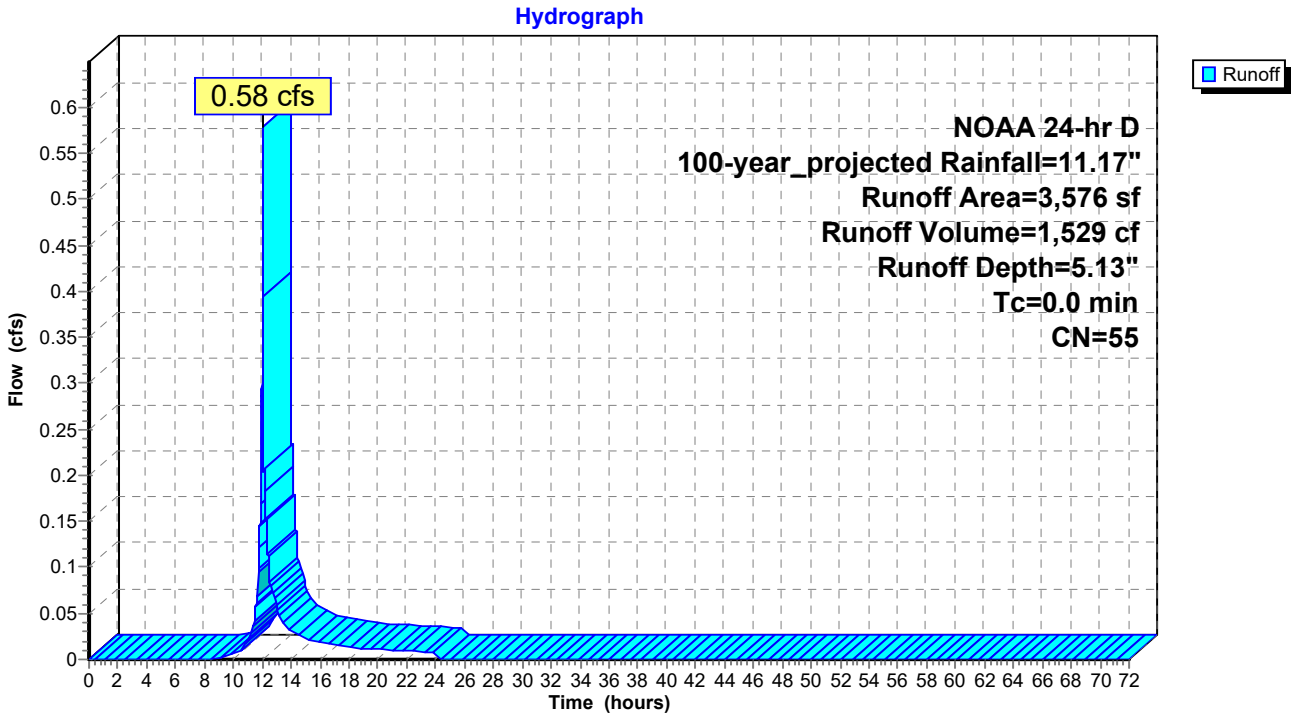
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.58 cfs @ 12.09 hrs, Volume= 1,529 cf, Depth= 5.13"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (sf)	CN	Description
*	3,576	55	
	3,576	55	100.00% Pervious Area

Subcatchment 33S: undeveloped run on to bioretention



Summary for Subcatchment 37S: Basin 3

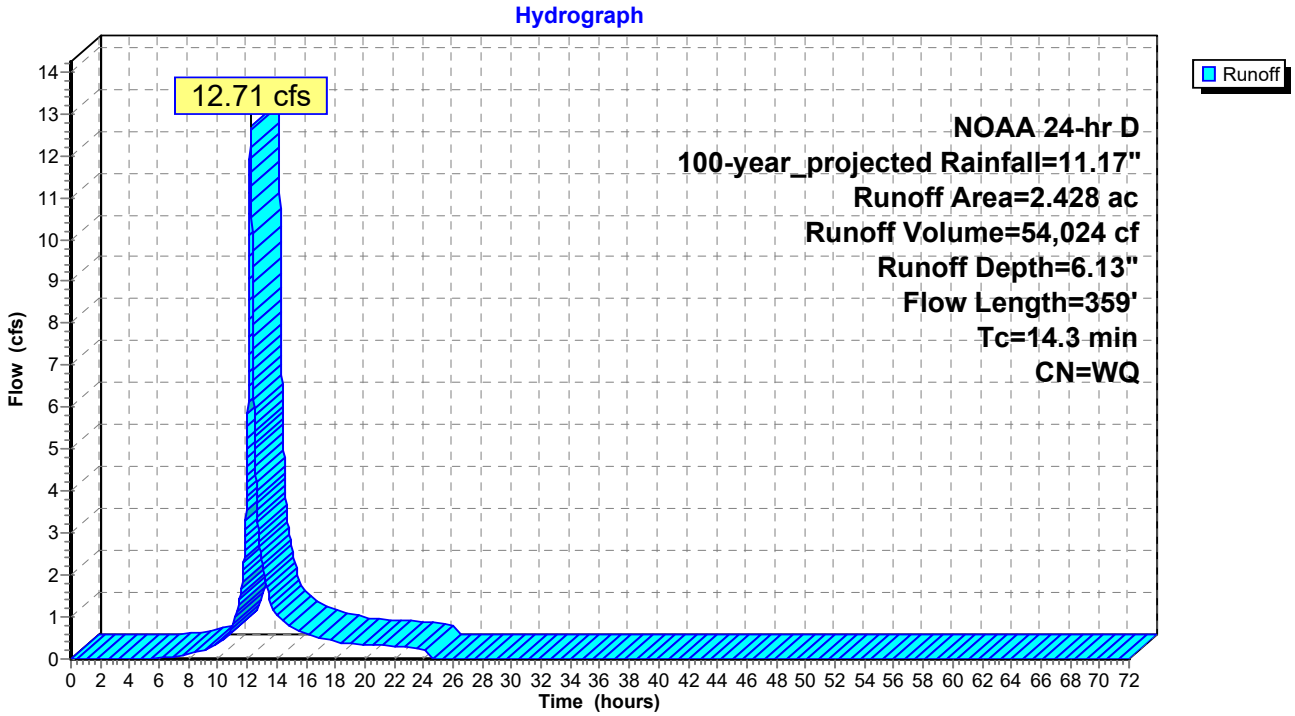
Runoff = 12.71 cfs @ 12.22 hrs, Volume= 54,024 cf, Depth= 6.13"
Routed to Reach 38R : DA3 Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.720	39	grass
*	1.708	72	sand
	2.428		Weighted Average
	2.428	62	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	35	0.5455	0.40		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
7.5	65	0.0321	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
3.4	107	0.0055	0.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	152	0.0066	1.31		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
14.3	359	Total			

Subcatchment 37S: Basin 3



Summary for Subcatchment 39S: Basin 1A East

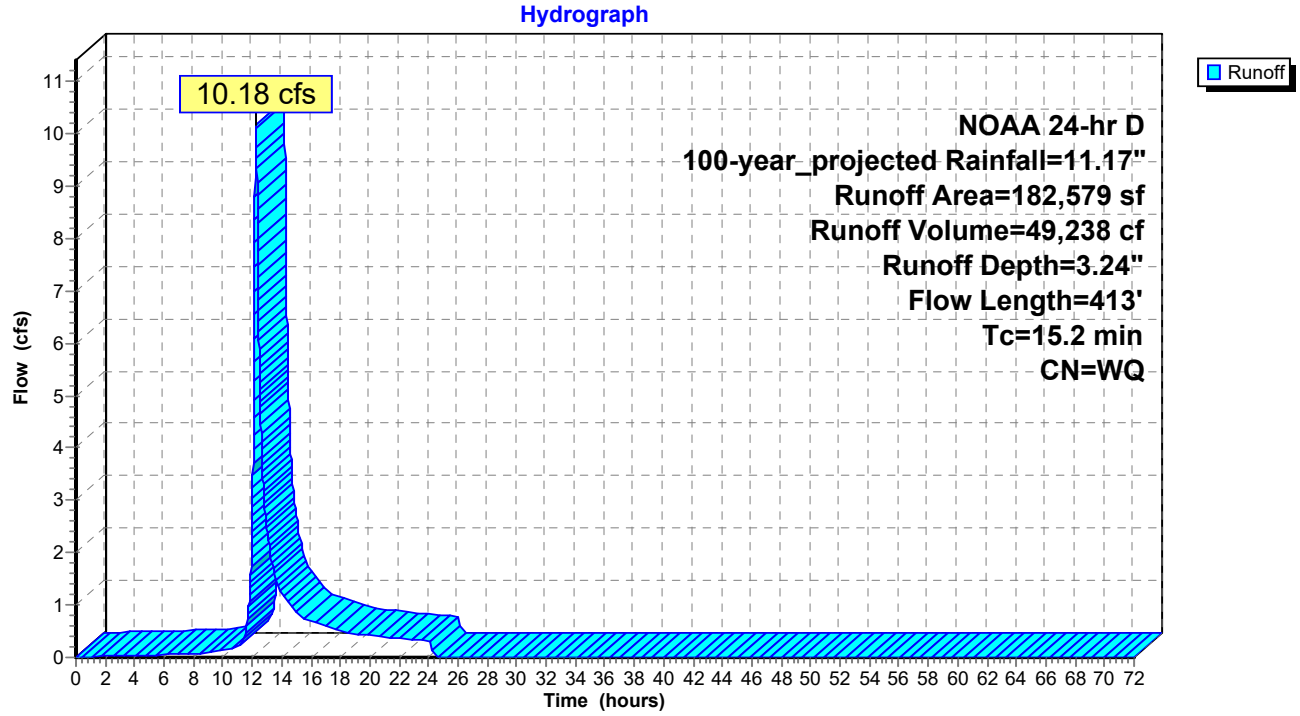
Runoff = 10.18 cfs @ 12.25 hrs, Volume= 49,238 cf, Depth= 3.24"
Routed to Reach 29R : DA1A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (sf)	CN	Description
	171,321	39	>75% Grass cover, Good, HSG A
*	11,258	98	Solar
	182,579		Weighted Average
	171,321	39	93.83% Pervious Area
	11,258	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0299	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
4.3	313	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.2	413	Total			

Subcatchment 39S: Basin 1A East



Summary for Subcatchment 40S: Basin 1A West

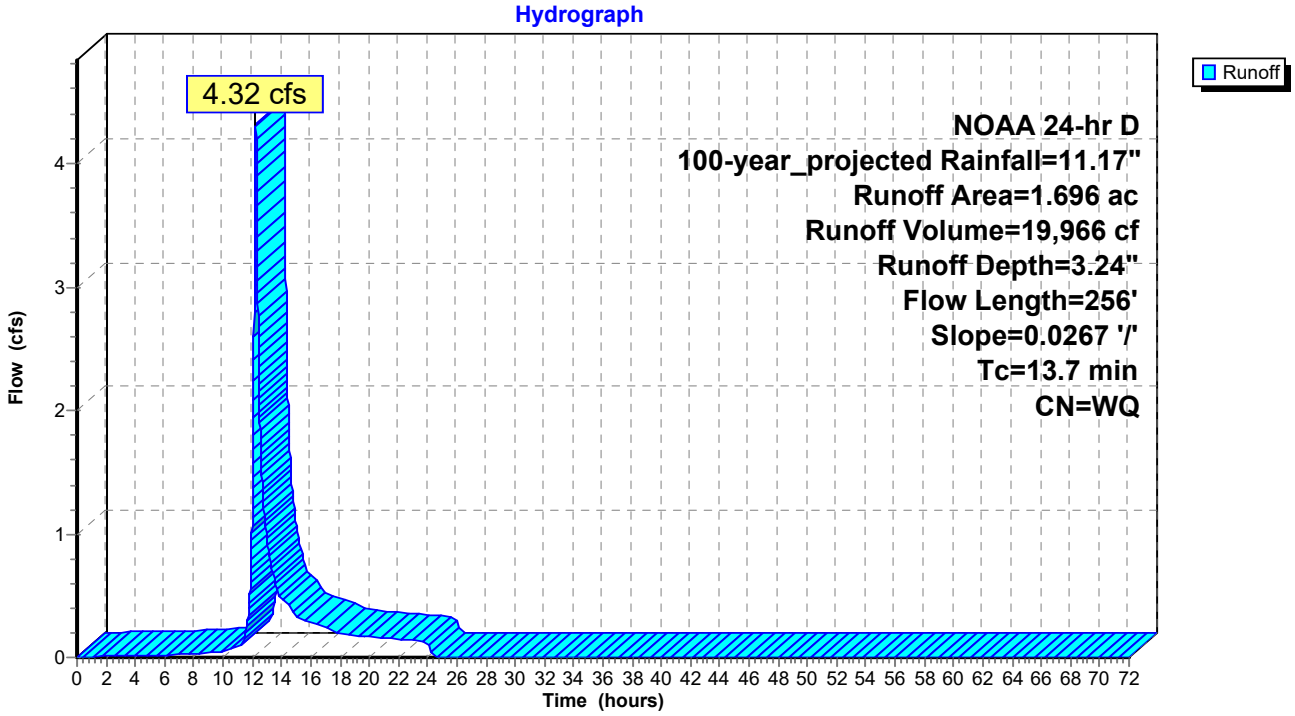
Runoff = 4.32 cfs @ 12.23 hrs, Volume= 19,966 cf, Depth= 3.24"
Routed to Reach 39R : DA 1A Central Swale A

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
	1.590	39	>75% Grass cover, Good, HSG A
*	0.106	98	Solar
	1.696		Weighted Average
	1.590	39	93.75% Pervious Area
	0.106	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.4	100	0.0267	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
2.3	156	0.0267	1.14		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
13.7	256	Total			

Subcatchment 40S: Basin 1A West



Summary for Subcatchment 41S: Basin 4 East

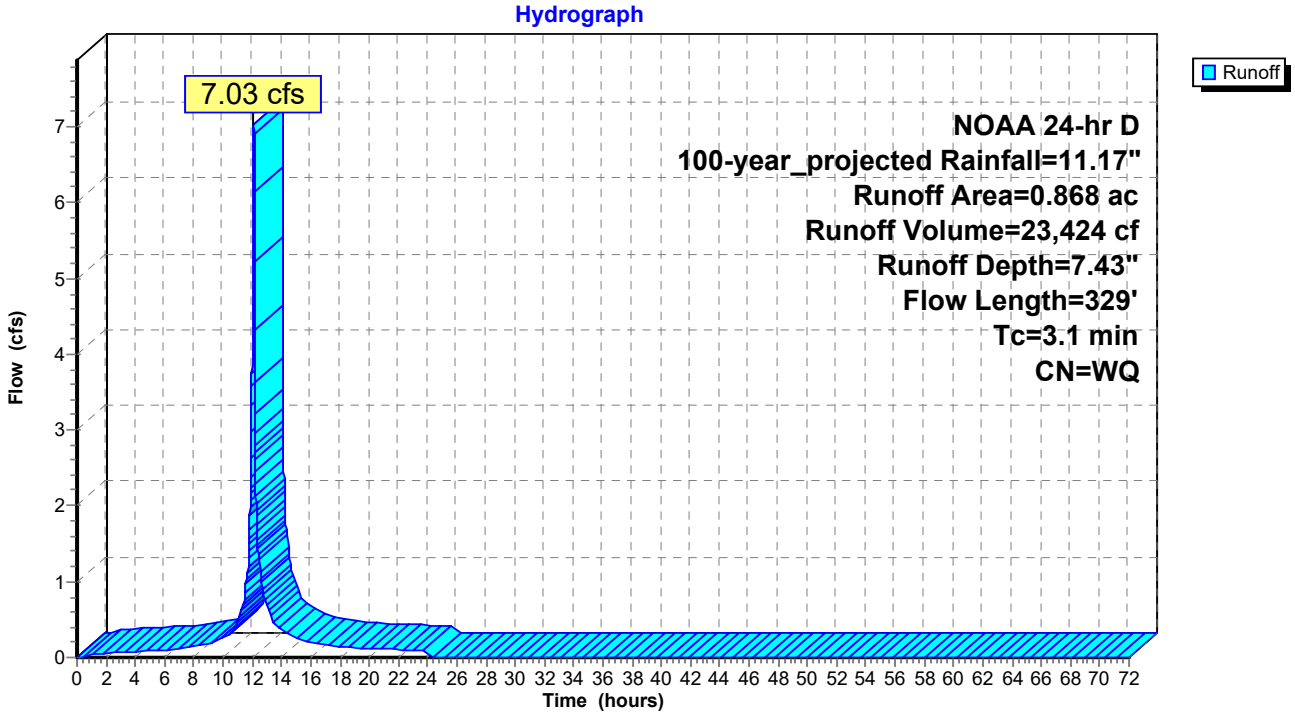
Runoff = 7.03 cfs @ 12.11 hrs, Volume= 23,424 cf, Depth= 7.43"
Routed to Reach 42R : DA4 East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.498	98	salt storage area
*	0.370	39	grass cover
	0.868		Weighted Average
	0.370	39	42.63% Pervious Area
	0.498	98	57.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0296	1.80		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.4	90	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	139	0.0325	1.26		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.1	329	Total			

Subcatchment 41S: Basin 4 East



Summary for Subcatchment 42S: Basin 4 West

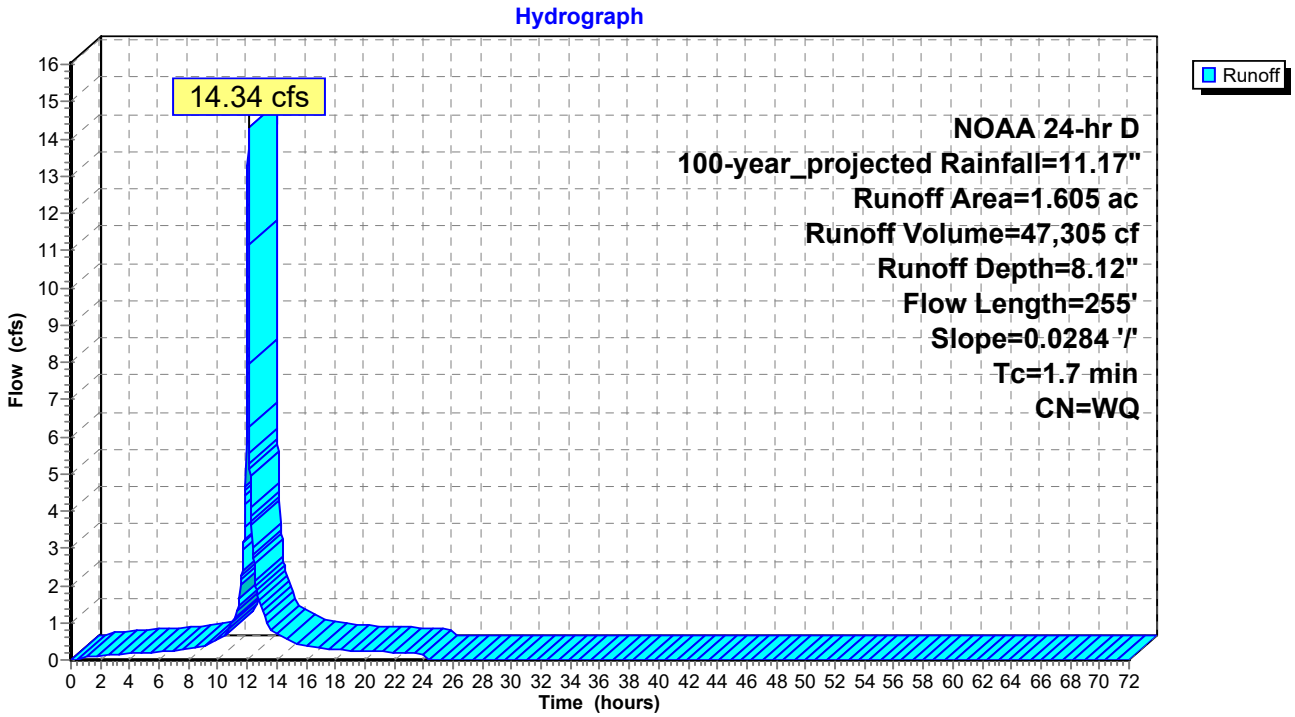
Runoff = 14.34 cfs @ 12.10 hrs, Volume= 47,305 cf, Depth= 8.12"
Routed to Reach 34R : DA4 West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.237	98	gravel road
*	0.818	98	compost/recycling area
*	0.550	39	grass cover
	1.605		Weighted Average
	0.550	39	34.27% Pervious Area
	1.055	98	65.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0284	1.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.8	155	0.0284	3.42		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.7	255	Total			

Subcatchment 42S: Basin 4 West



Summary for Subcatchment 46S: Direct Rainfall Basin 2A Bioretention

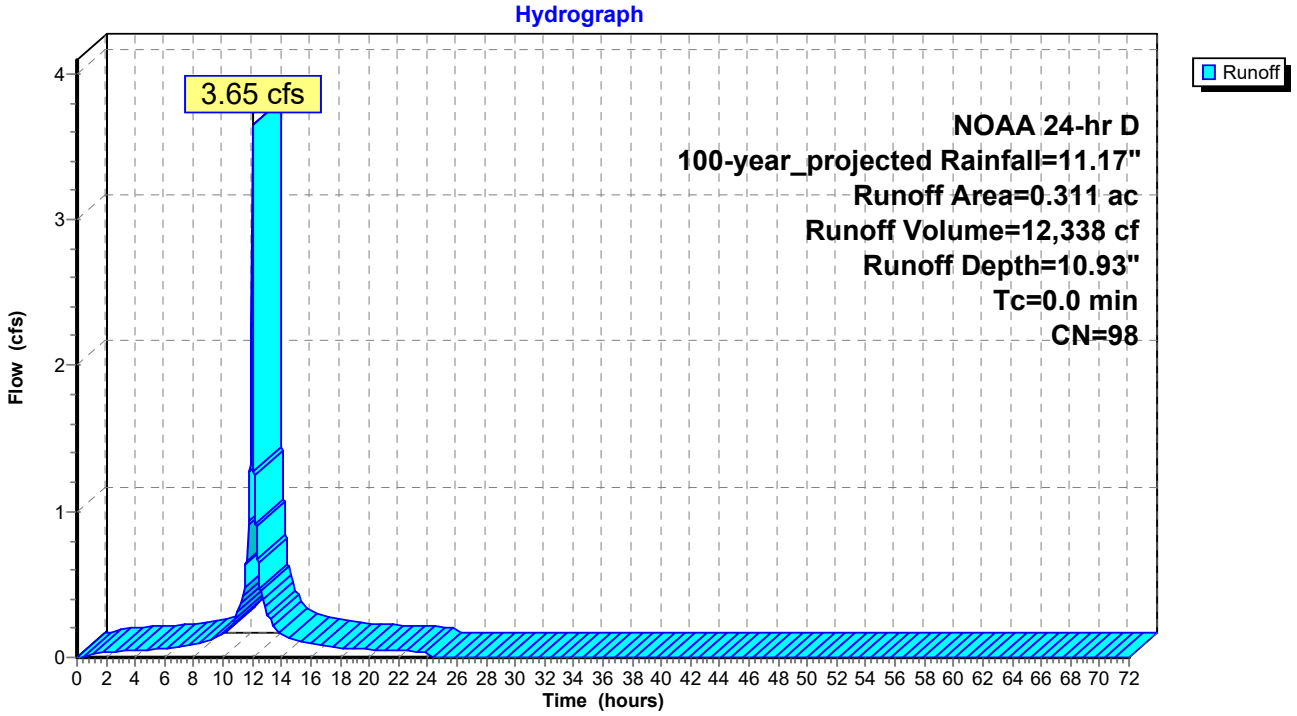
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.65 cfs @ 12.09 hrs, Volume= 12,338 cf, Depth=10.93"
Routed to Pond 44P : Basin 2A Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.311	98	Direct Rainfall
	0.311	98	100.00% Impervious Area

Subcatchment 46S: Direct Rainfall Basin 2A Bioretention



Summary for Subcatchment 47S: Direct Rainfall Basin 2A Infiltration

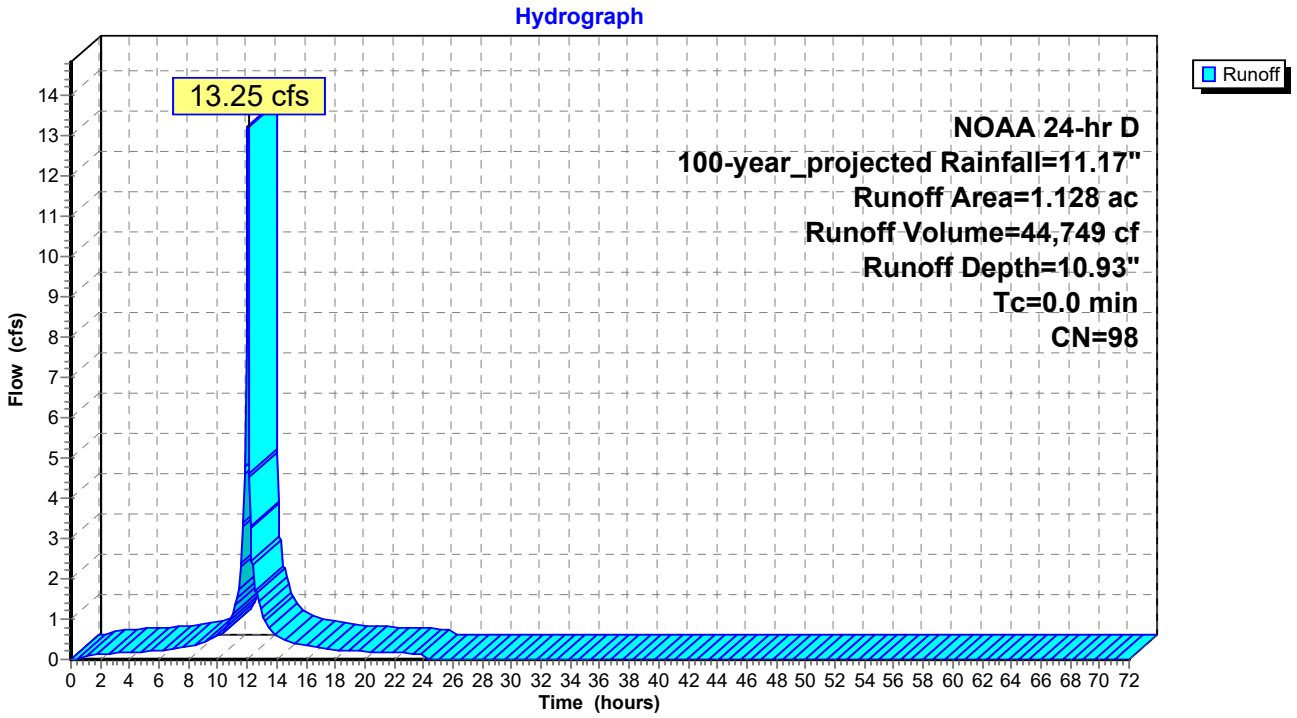
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 13.25 cfs @ 12.09 hrs, Volume= 44,749 cf, Depth=10.93"
Routed to Pond 45P : Basin 2A Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	1.128	98	Direct Rainfall
	1.128	98	100.00% Impervious Area

Subcatchment 47S: Direct Rainfall Basin 2A Infiltration



Summary for Subcatchment 48S: Direct Rainfall Basin 1B Bioretention

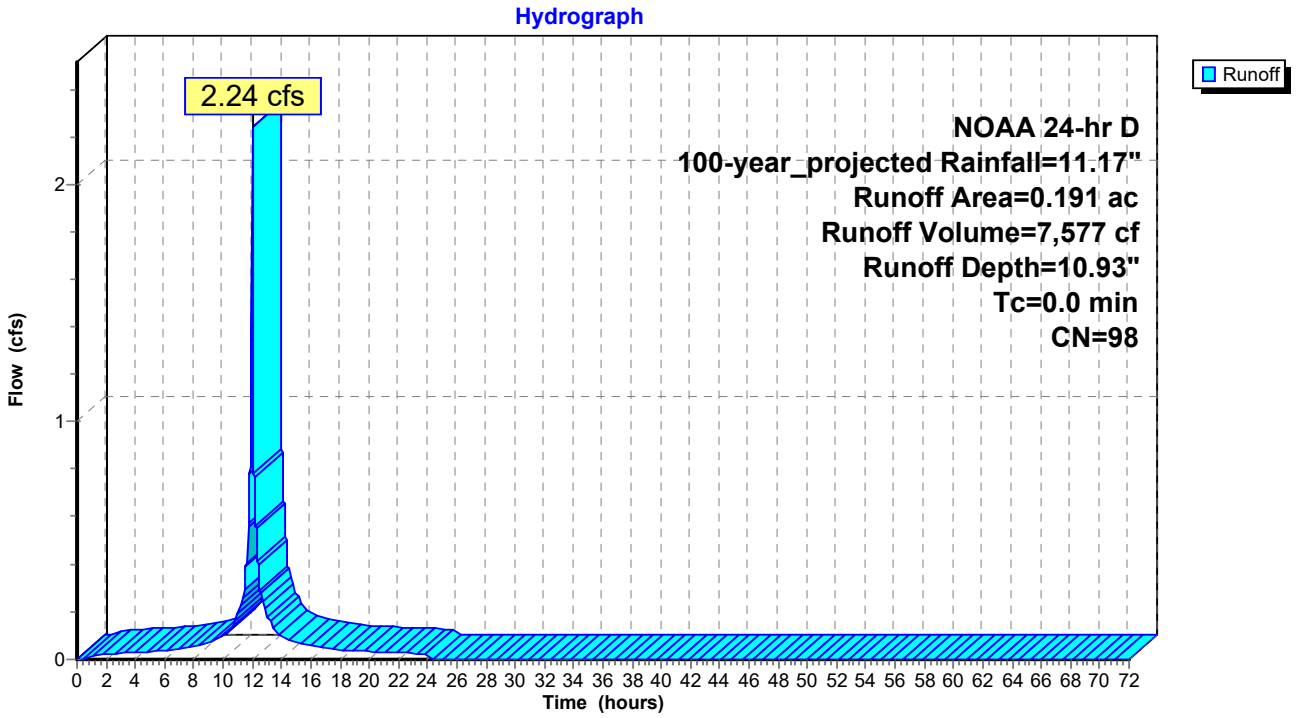
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.24 cfs @ 12.09 hrs, Volume= 7,577 cf, Depth=10.93"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.191	98	direct rainfall onto bioretention
	0.191	98	100.00% Impervious Area

Subcatchment 48S: Direct Rainfall Basin 1B Bioretention



Summary for Subcatchment 49S: Direct Rainfall Basin 1A Infiltration

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

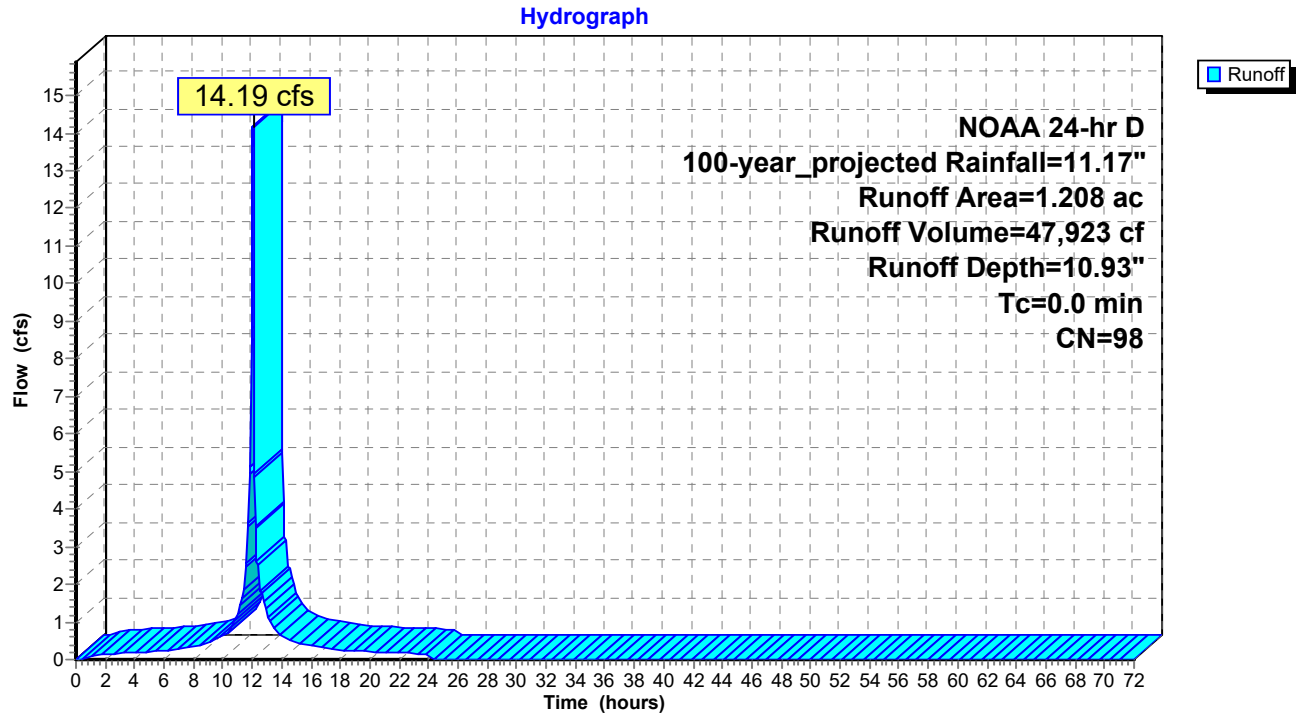
Runoff = 14.19 cfs @ 12.09 hrs, Volume= 47,923 cf, Depth=10.93"
Routed to Pond 48P : Basin 1A Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	1.208	98	
	1.208	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					**Direct Entry,**

Subcatchment 49S: Direct Rainfall Basin 1A Infiltration



Summary for Subcatchment 50S: Direct Rainfall Basin 1B Infiltration

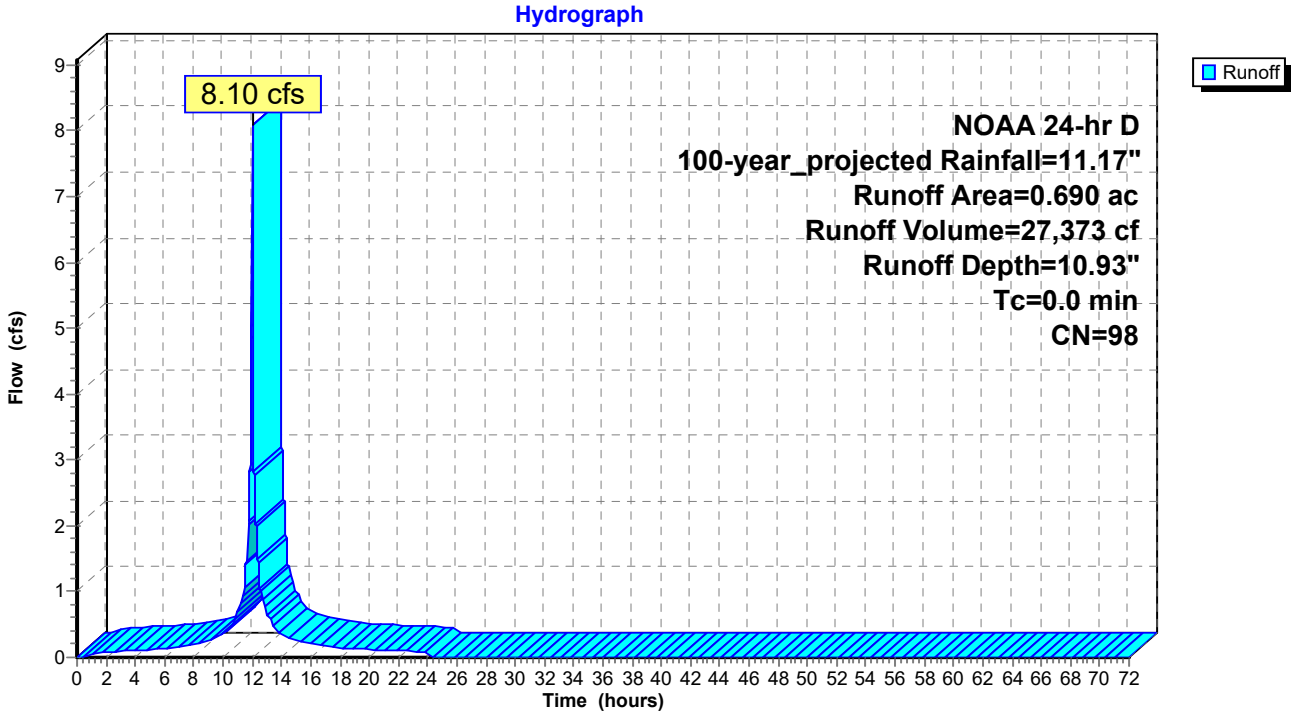
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 8.10 cfs @ 12.09 hrs, Volume= 27,373 cf, Depth=10.93"
Routed to Pond 46P : Basin 1B Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.690	98	direct rainfall
	0.690	98	100.00% Impervious Area

Subcatchment 50S: Direct Rainfall Basin 1B Infiltration



Summary for Subcatchment 52S: Direct Rainfall Basin 1A Forebay

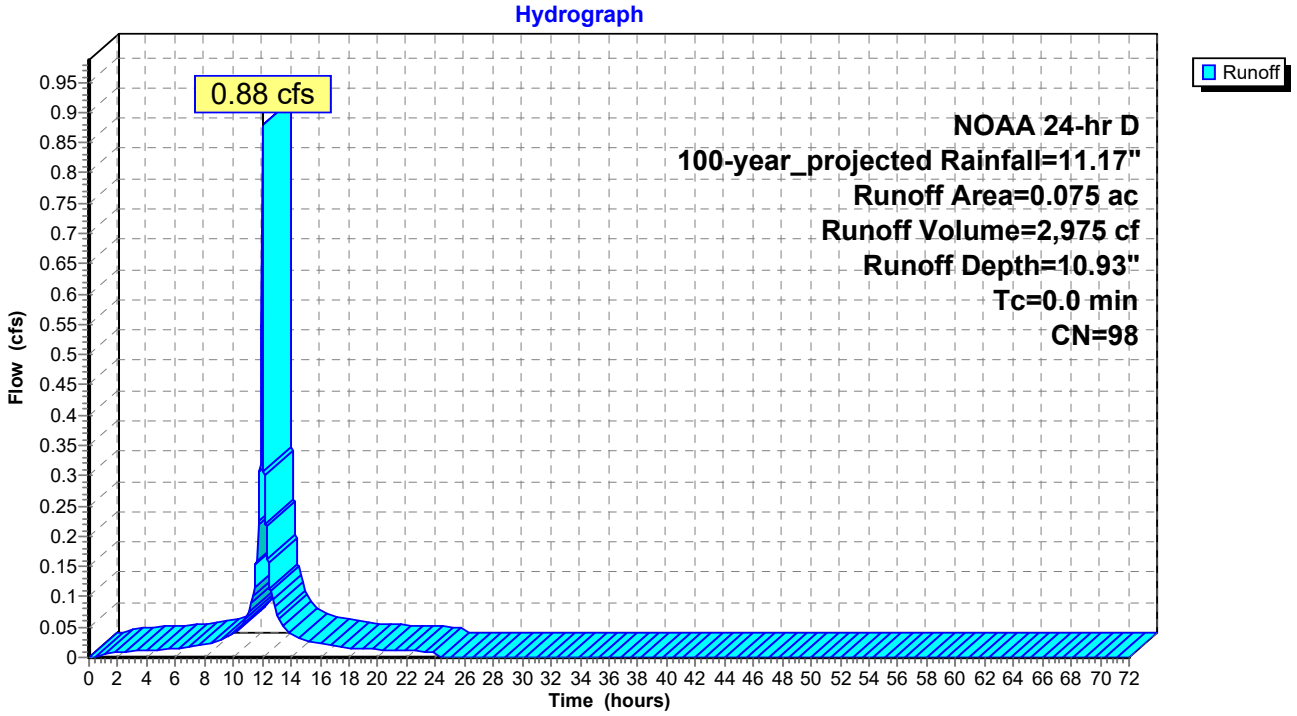
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.88 cfs @ 12.09 hrs, Volume= 2,975 cf, Depth=10.93"
Routed to Pond 15P : Basin 1A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.075	98	direct rainfall
	0.075	98	100.00% Impervious Area

Subcatchment 52S: Direct Rainfall Basin 1A Forebay



Summary for Subcatchment 54S: Direct Rainfall Basin 2A forebay

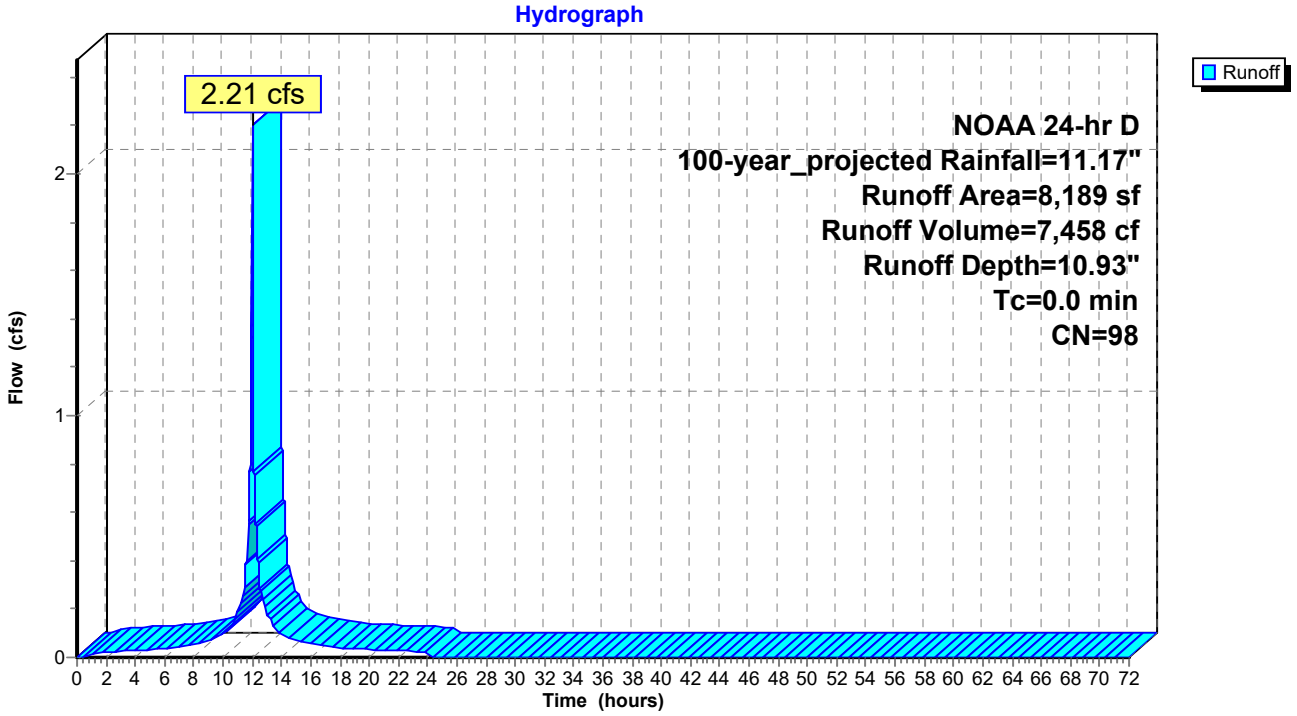
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.21 cfs @ 12.09 hrs, Volume= 7,458 cf, Depth=10.93"
Routed to Pond 26P : Basin 2A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (sf)	CN	Description
*	8,189	98	direct rainfall to forebay
	8,189	98	100.00% Impervious Area

Subcatchment 54S: Direct Rainfall Basin 2A forebay



Summary for Subcatchment 55S: Direct Rainfall Basin 3 Forebay

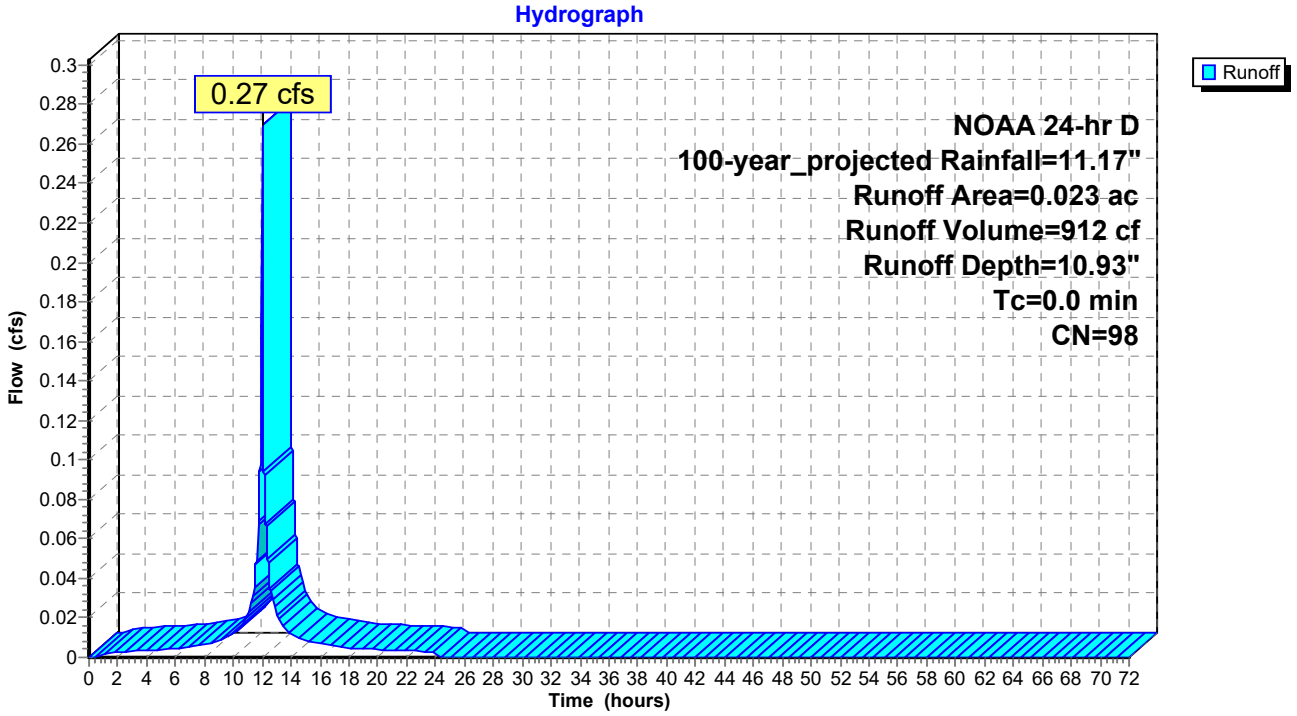
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 912 cf, Depth=10.93"
Routed to Pond 38P : Basin 3 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.023	98	direct rainfall
	0.023	98	100.00% Impervious Area

Subcatchment 55S: Direct Rainfall Basin 3 Forebay



Summary for Subcatchment 56S: Direct Rainfall Basin 1B Forebay

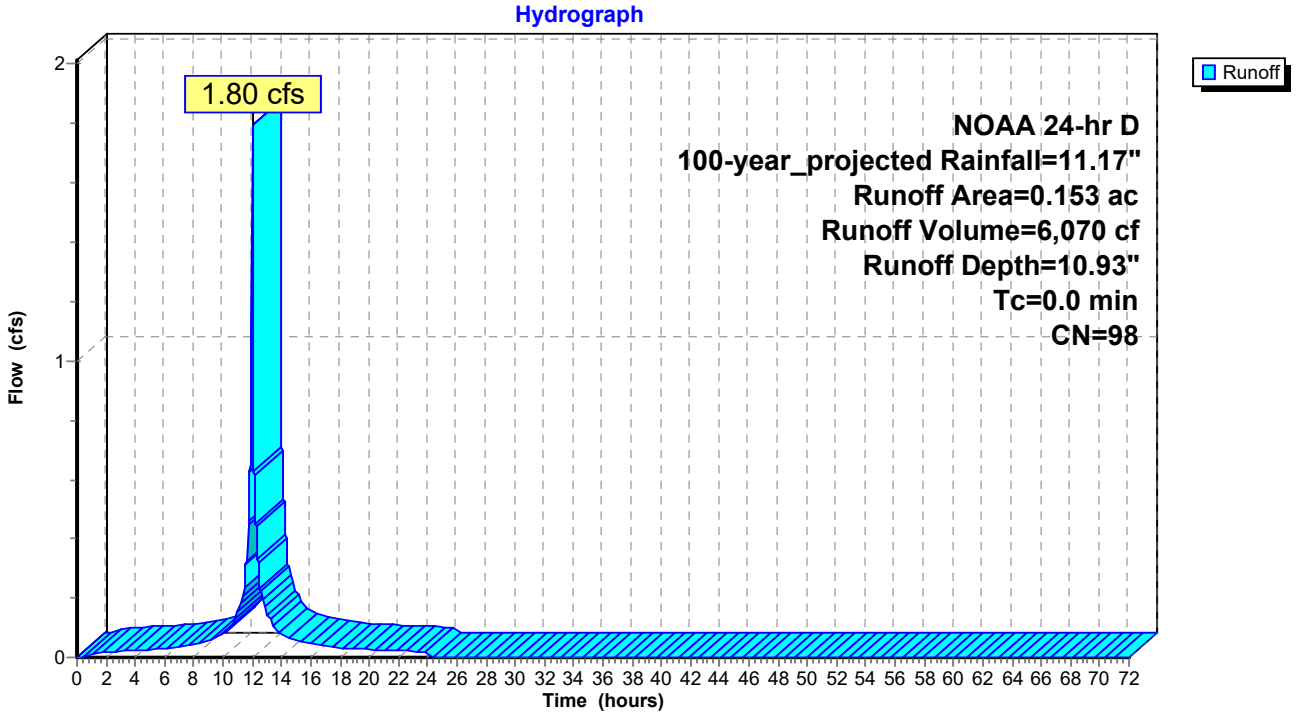
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.80 cfs @ 12.09 hrs, Volume= 6,070 cf, Depth=10.93"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.153	98	direct rainfall
	0.153	98	100.00% Impervious Area

Subcatchment 56S: Direct Rainfall Basin 1B Forebay



Summary for Subcatchment 57S: Direct Rainfall Basin 4 Forebay

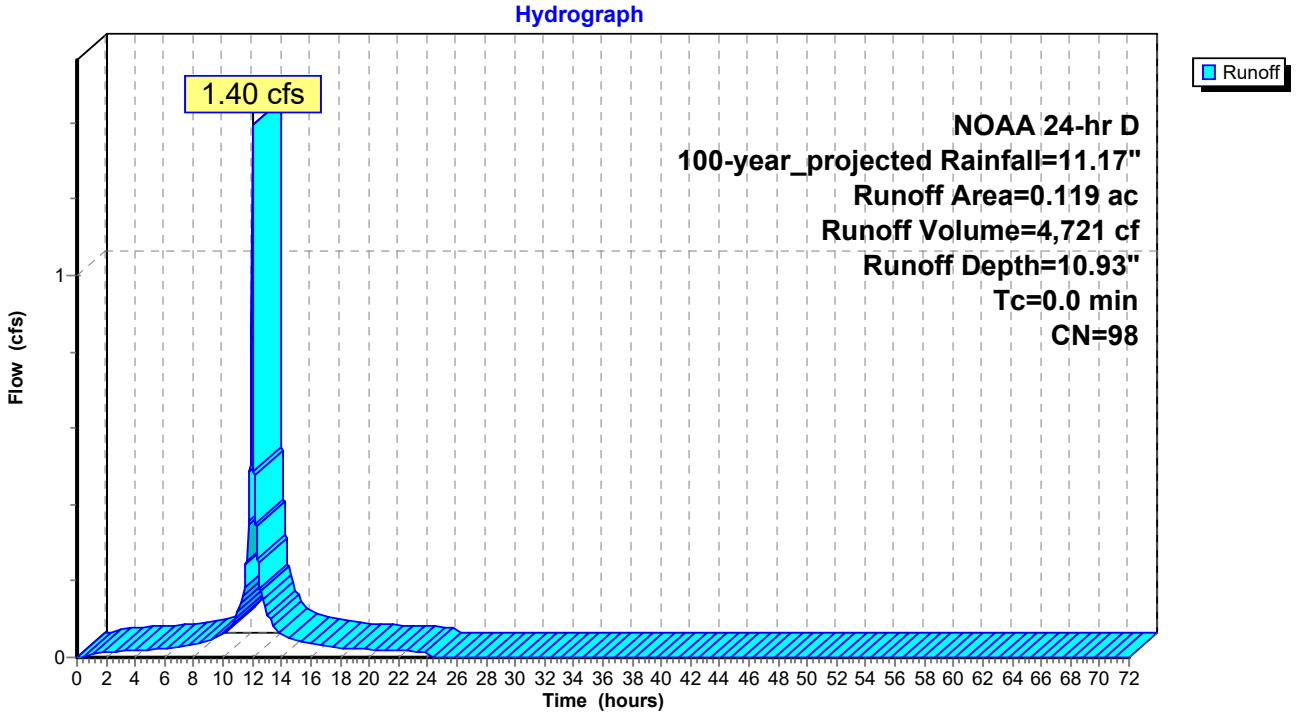
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.40 cfs @ 12.09 hrs, Volume= 4,721 cf, Depth=10.93"
Routed to Pond 39P : Basin 4 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.119	98	direct rainfall
	0.119	98	100.00% Impervious Area

Subcatchment 57S: Direct Rainfall Basin 4 Forebay



Summary for Subcatchment 58S: Direct forest undeveloped runoff to basin

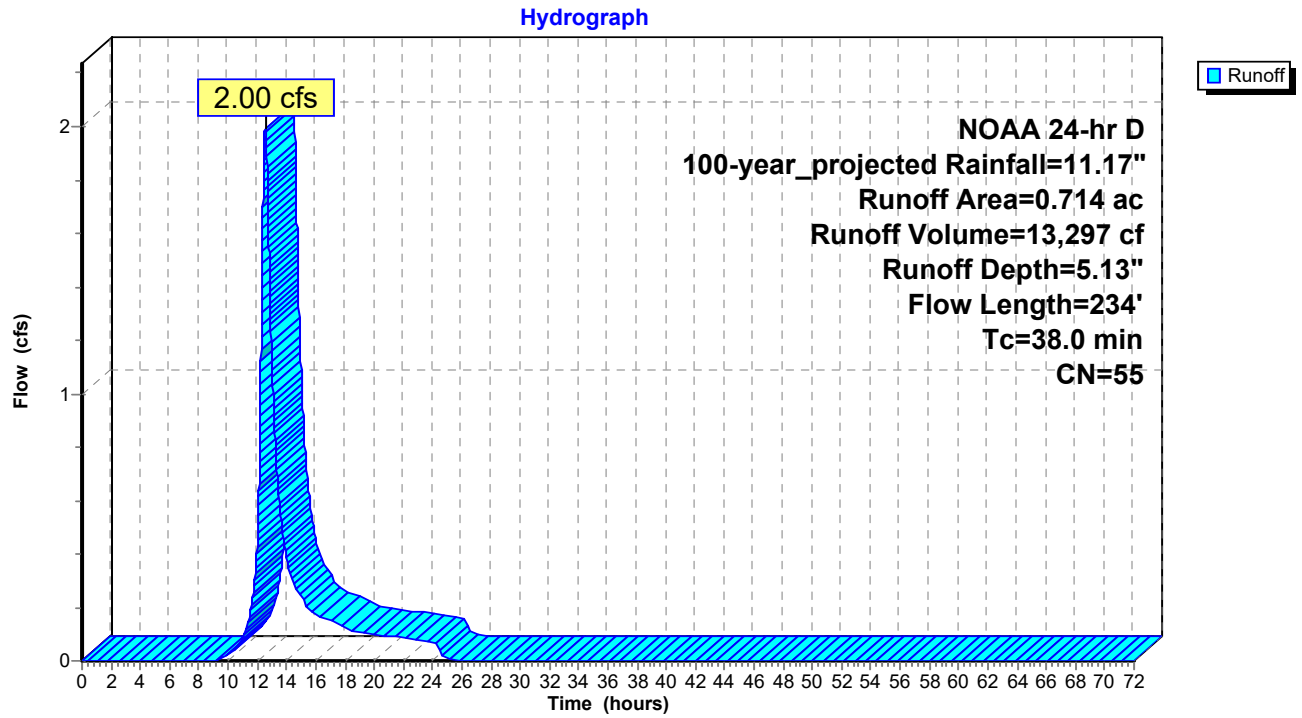
Runoff = 2.00 cfs @ 12.54 hrs, Volume= 13,297 cf, Depth= 5.13"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

Area (ac)	CN	Description
0.714	55	Woods, Good, HSG B
0.714	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
33.4	100	0.0200	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 4.01"
4.6	134	0.0370	0.48		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
38.0	234	Total			

Subcatchment 58S: Direct forest undeveloped runoff to basin



Summary for Subcatchment 59S: Direct Rainfall Basin 4 Infiltration

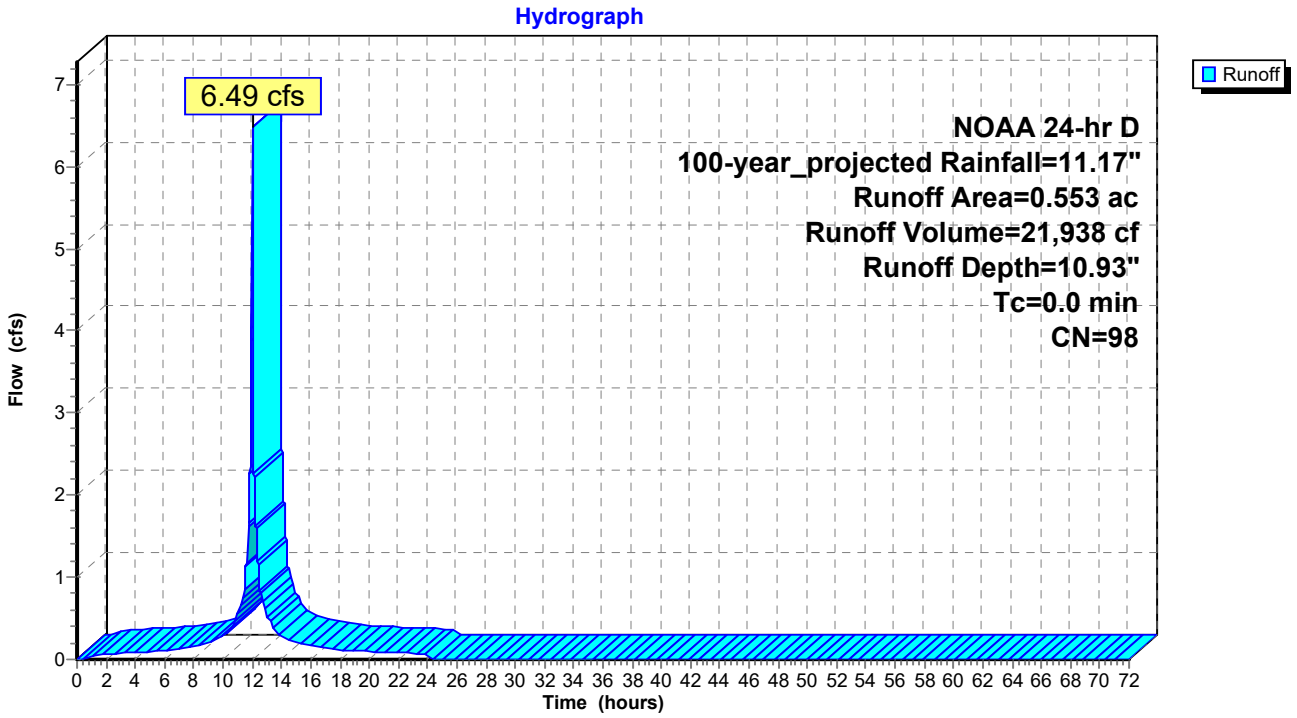
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 6.49 cfs @ 12.09 hrs, Volume= 21,938 cf, Depth=10.93"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.553	98	direct rainfall
	0.553	98	100.00% Impervious Area

Subcatchment 59S: Direct Rainfall Basin 4 Infiltration



Summary for Subcatchment 62S: Direct Rainfall Basin 3 Infiltration

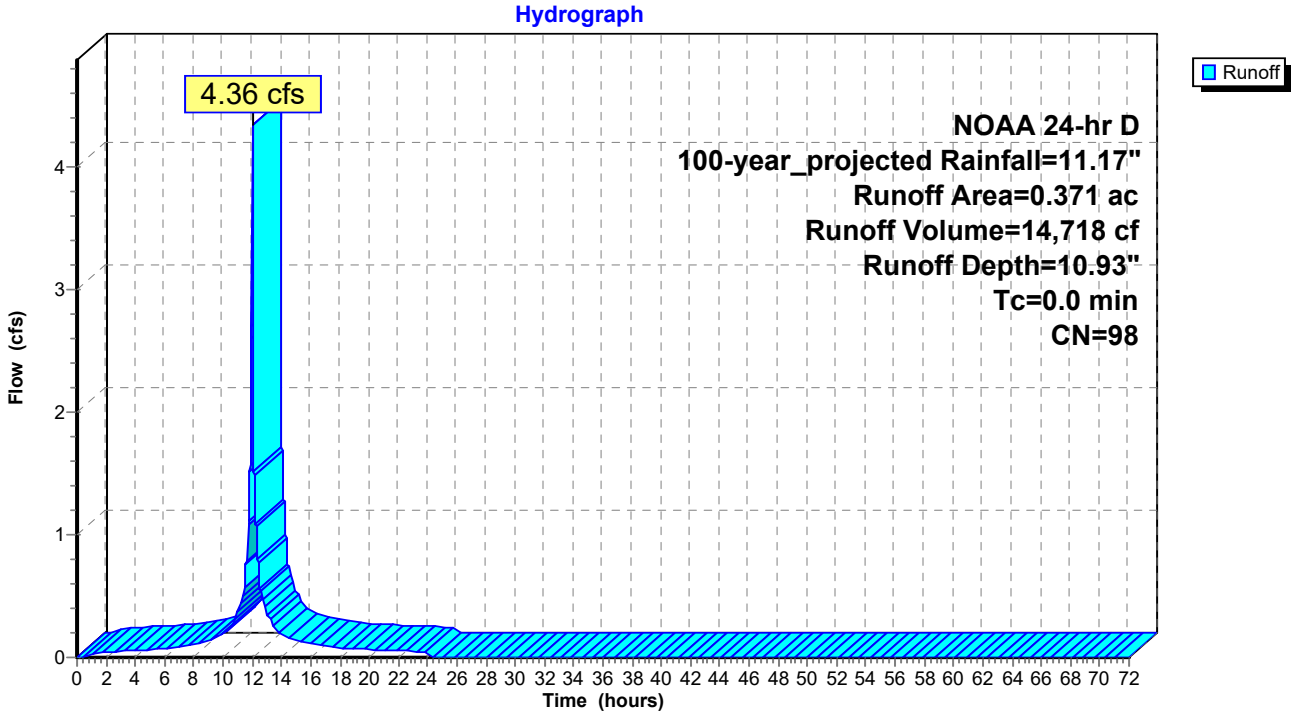
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 4.36 cfs @ 12.09 hrs, Volume= 14,718 cf, Depth=10.93"
Routed to Pond 61P : Basin 3 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.371	98	
	0.371	98	100.00% Impervious Area

Subcatchment 62S: Direct Rainfall Basin 3 Infiltration



Summary for Subcatchment 65S: Direct Rainfall Basin 3 Bioretention

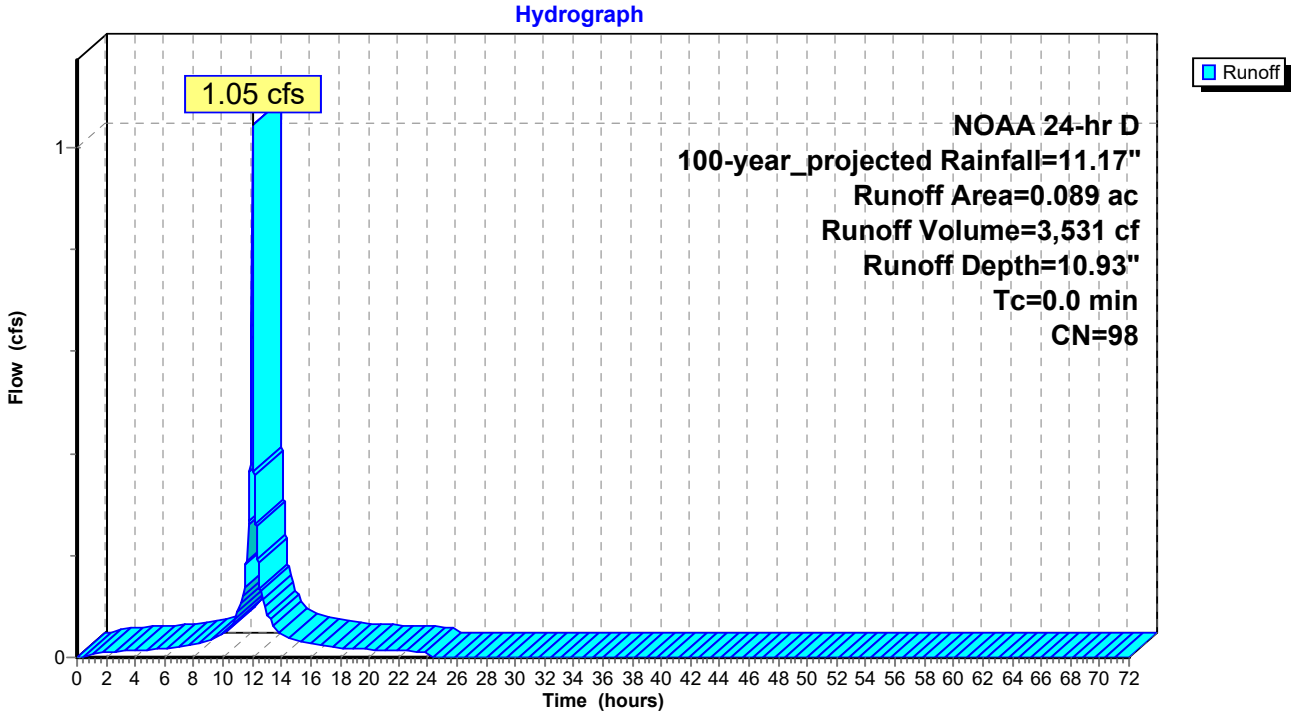
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.05 cfs @ 12.09 hrs, Volume= 3,531 cf, Depth=10.93"
Routed to Pond 60P : Basin 3 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.089	98	
	0.089	98	100.00% Impervious Area

Subcatchment 65S: Direct Rainfall Basin 3 Bioretention



Summary for Subcatchment 69S: Direct Rainfall Basin 2B Forebay

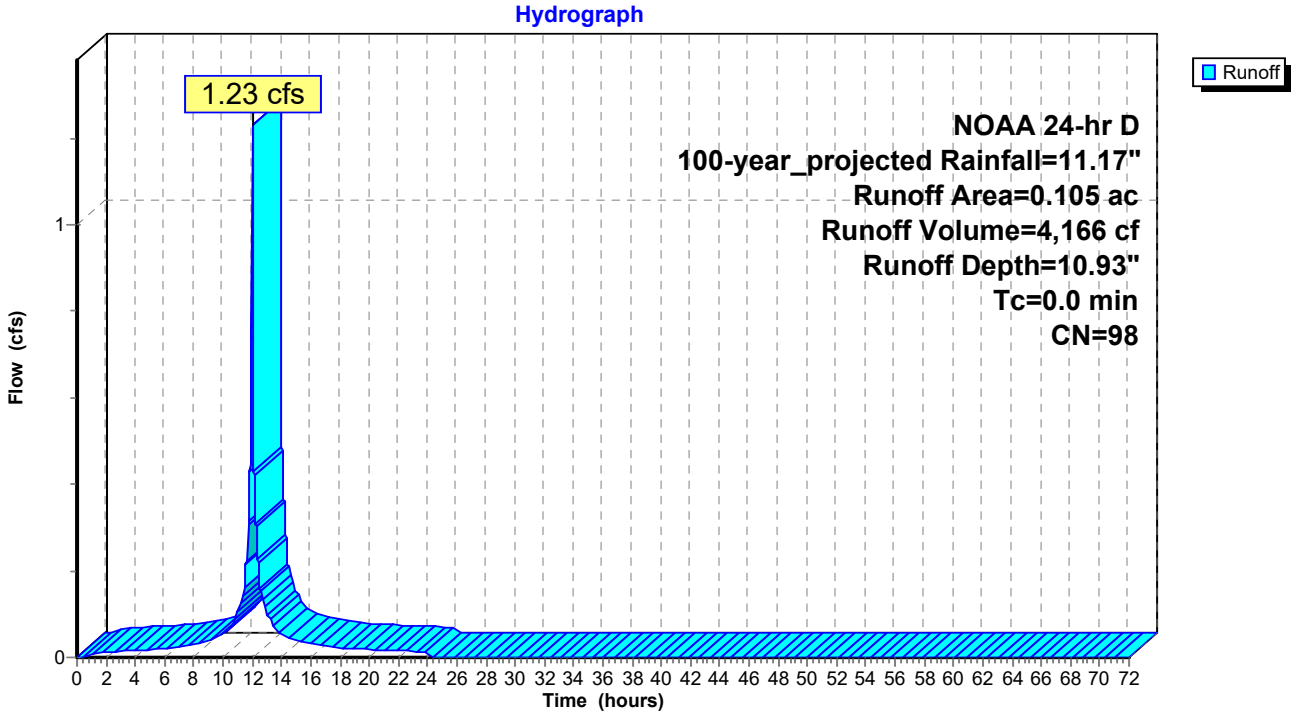
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.23 cfs @ 12.09 hrs, Volume= 4,166 cf, Depth=10.93"
Routed to Pond 65P : Basin 2B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.105	98	direct rainfall
	0.105	98	100.00% Impervious Area

Subcatchment 69S: Direct Rainfall Basin 2B Forebay



Summary for Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin

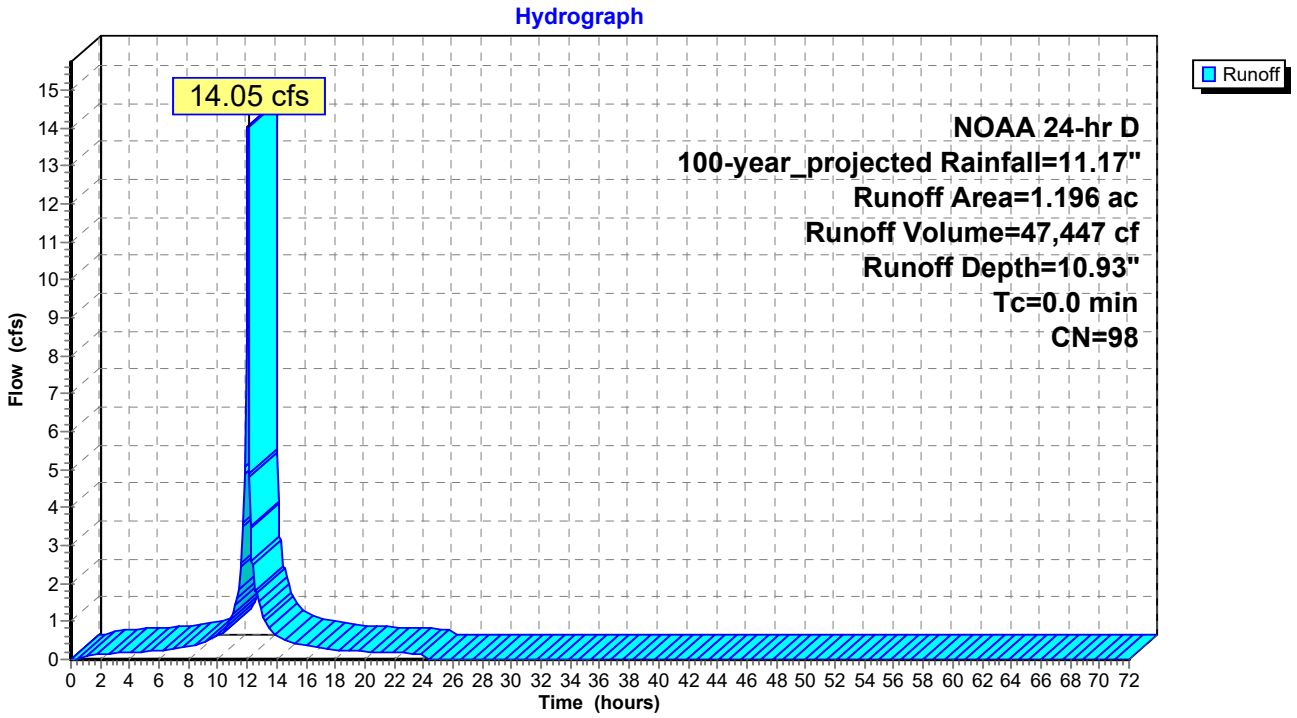
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 14.05 cfs @ 12.09 hrs, Volume= 47,447 cf, Depth=10.93"
Routed to Pond 66P : Basin 2B Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	1.196	98	direct rainfall
	1.196	98	100.00% Impervious Area

Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin



Summary for Subcatchment 71S: Direct Rainfall to Bioretention

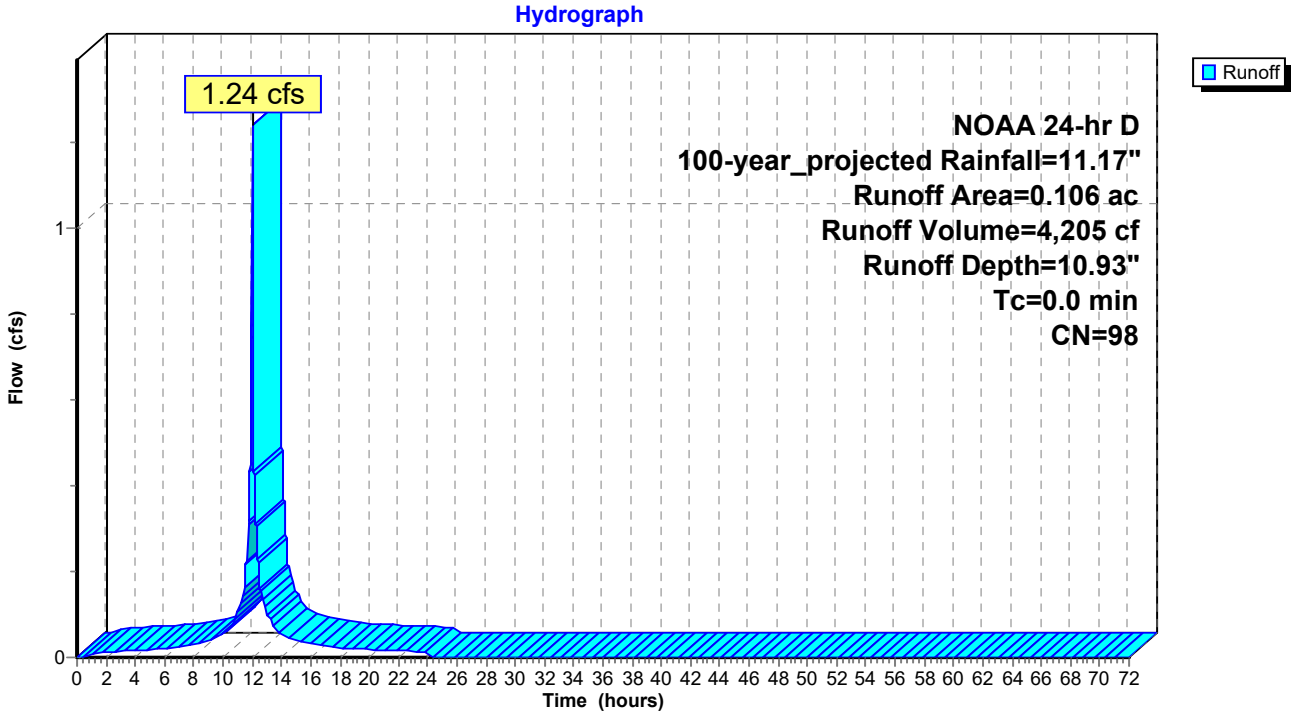
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.24 cfs @ 12.09 hrs, Volume= 4,205 cf, Depth=10.93"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.106	98	direct rainfall to bioretention
	0.106	98	100.00% Impervious Area

Subcatchment 71S: Direct Rainfall to Bioretention



Summary for Subcatchment 74S: Direct forest runoff to infiltration basin

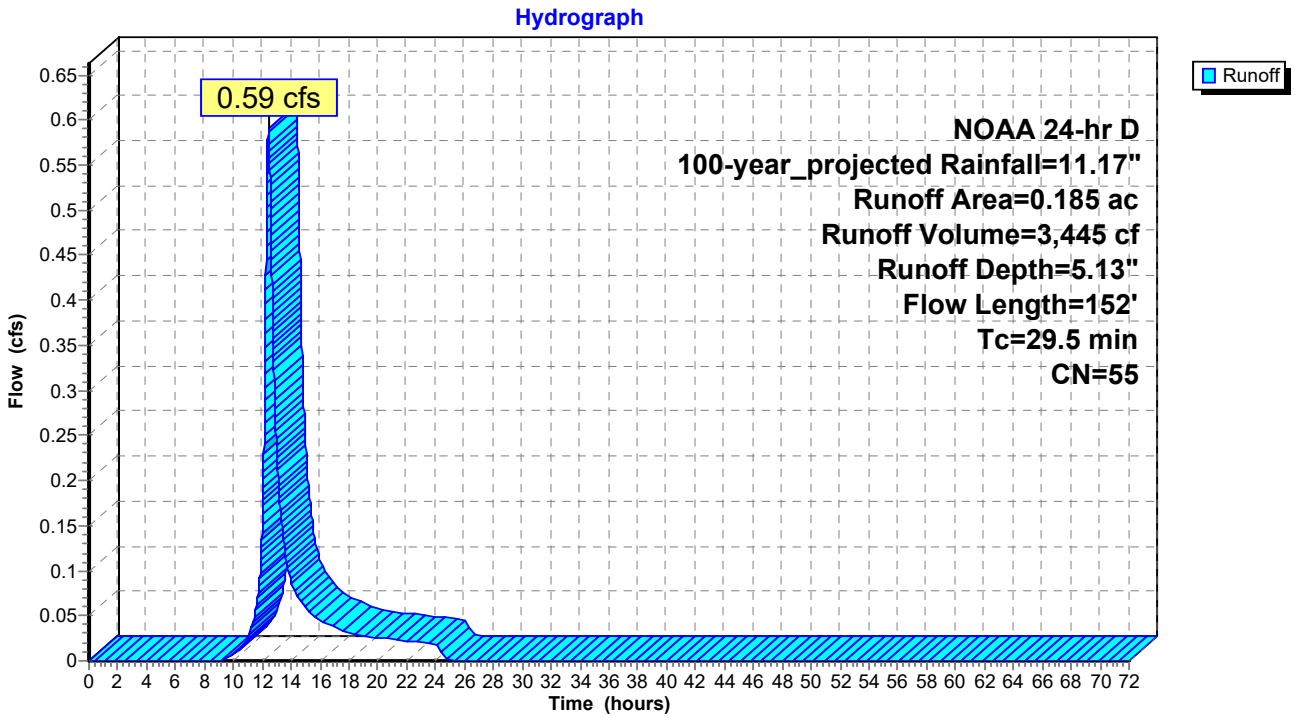
Runoff = 0.59 cfs @ 12.42 hrs, Volume= 3,445 cf, Depth= 5.13"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

Area (ac)	CN	Description
0.185	55	Woods, Good, HSG B
0.185	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.4	100	0.0300	0.06		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 4.01"
1.1	52	0.1000	0.79		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
29.5	152	Total			

Subcatchment 74S: Direct forest runoff to infiltration basin



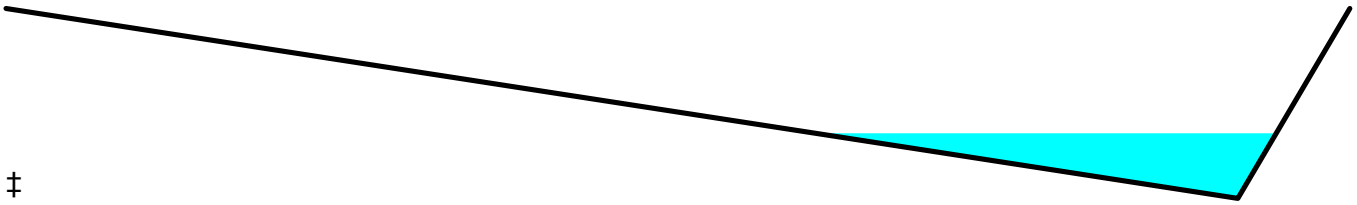
Summary for Reach 29R: DA1A East Swale

Inflow Area = 182,579 sf, 6.17% Impervious, Inflow Depth = 3.24" for 100-year_projected event
Inflow = 10.18 cfs @ 12.25 hrs, Volume= 49,238 cf
Outflow = 6.57 cfs @ 12.72 hrs, Volume= 49,238 cf, Atten= 35%, Lag= 28.5 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.78 fps, Min. Travel Time= 17.9 min
Avg. Velocity = 0.23 fps, Avg. Travel Time= 60.4 min

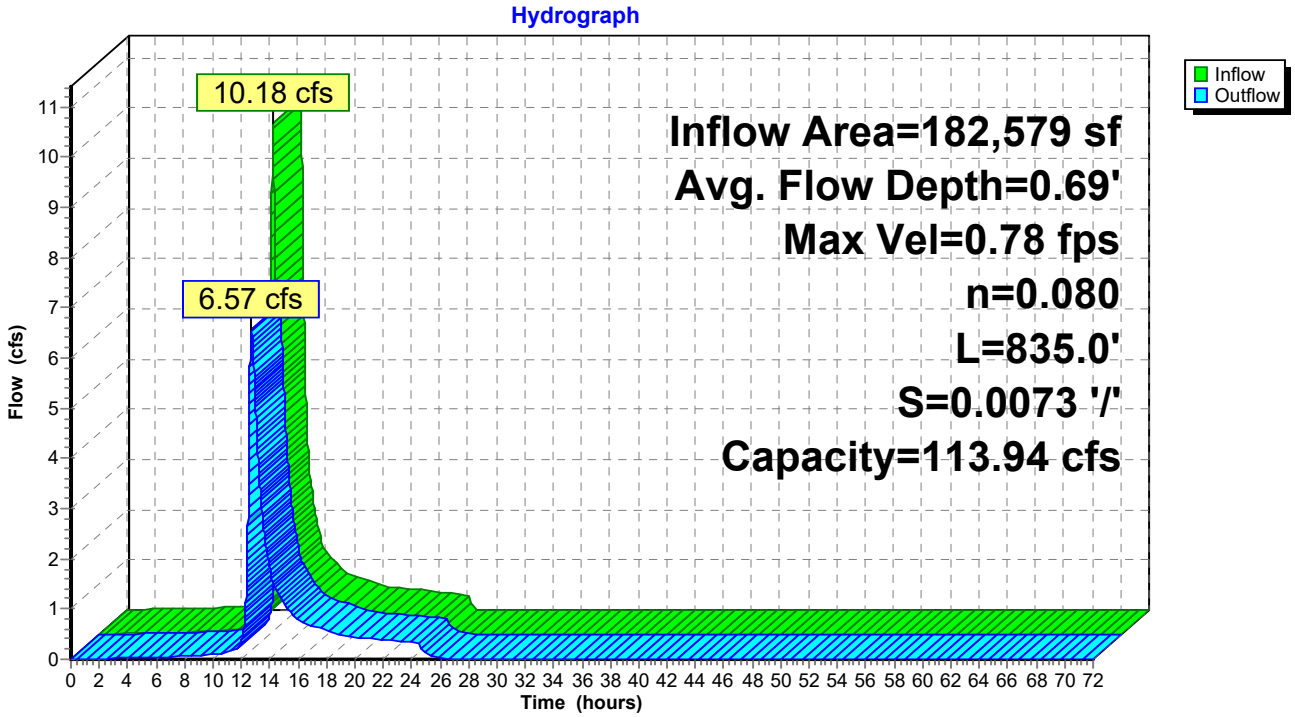
Peak Storage= 7,074 cf @ 12.42 hrs
Average Depth at Peak Storage= 0.69' , Surface Width= 24.69'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 113.94 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 835.0' Slope= 0.0073 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 29R: DA1A East Swale



Summary for Reach 30R: DA1A West Swale

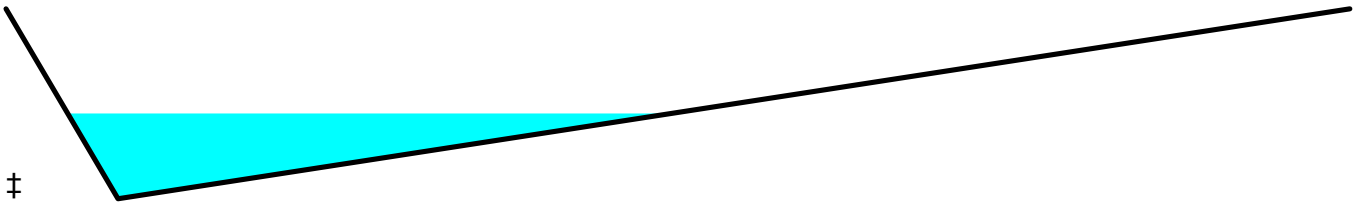
[62] Hint: Exceeded Reach 41R OUTLET depth by 0.43' @ 12.32 hrs

Inflow Area = 324,304 sf, 6.25% Impervious, Inflow Depth = 3.24" for 100-year_projected event
Inflow = 13.76 cfs @ 12.27 hrs, Volume= 87,636 cf
Outflow = 9.75 cfs @ 12.74 hrs, Volume= 87,636 cf, Atten= 29%, Lag= 28.1 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.67 fps, Min. Travel Time= 16.1 min
Avg. Velocity = 0.19 fps, Avg. Travel Time= 56.4 min

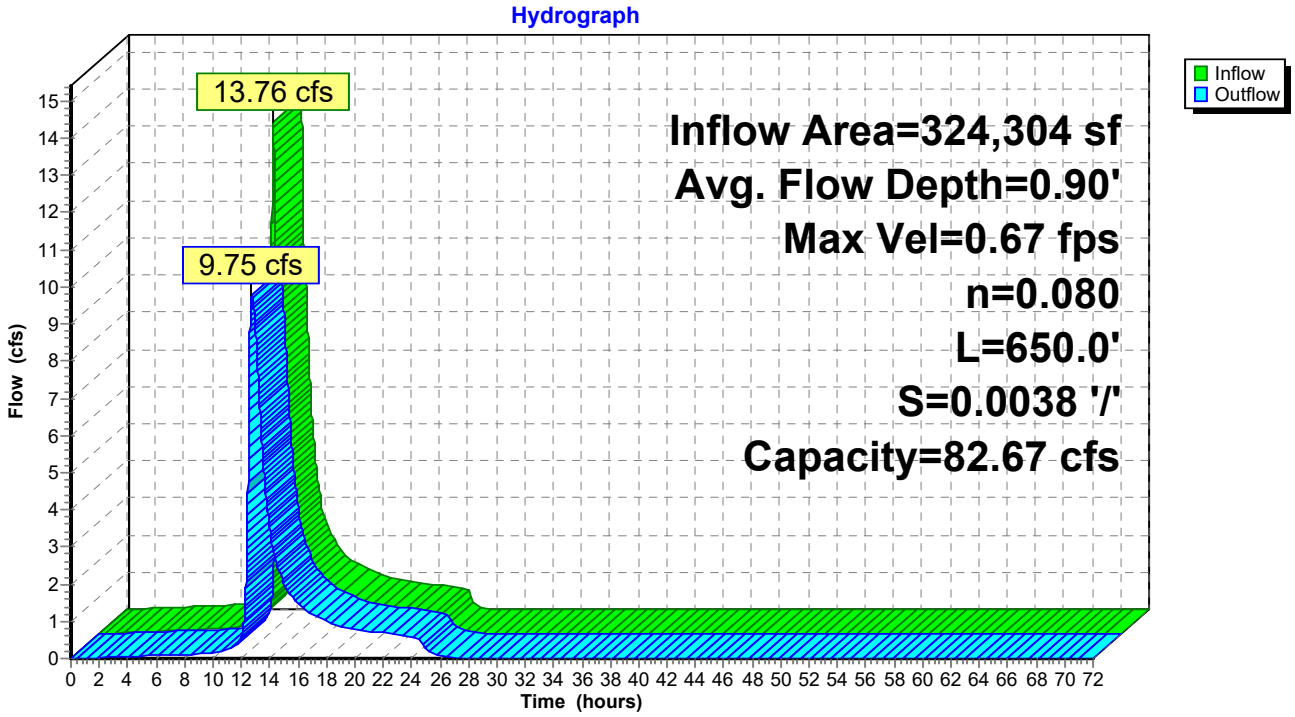
Peak Storage= 9,419 cf @ 12.47 hrs
Average Depth at Peak Storage= 0.90' , Surface Width= 32.30'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 82.67 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 650.0' Slope= 0.0038 '/'
Inlet Invert= 162.50', Outlet Invert= 160.00'



‡

Reach 30R: DA1A West Swale



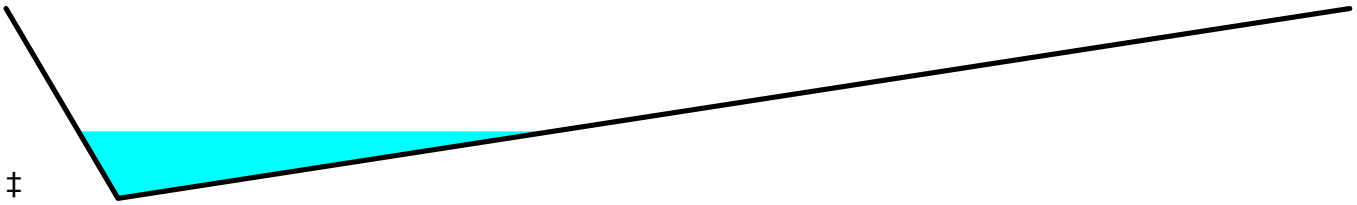
Summary for Reach 31R: DA2B East Swale

Inflow Area = 195,980 sf, 6.17% Impervious, Inflow Depth = 3.24" for 100-year_projected event
Inflow = 10.65 cfs @ 12.26 hrs, Volume= 52,852 cf
Outflow = 7.55 cfs @ 12.65 hrs, Volume= 52,852 cf, Atten= 29%, Lag= 23.8 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.84 fps, Min. Travel Time= 14.6 min
Avg. Velocity = 0.26 fps, Avg. Travel Time= 47.6 min

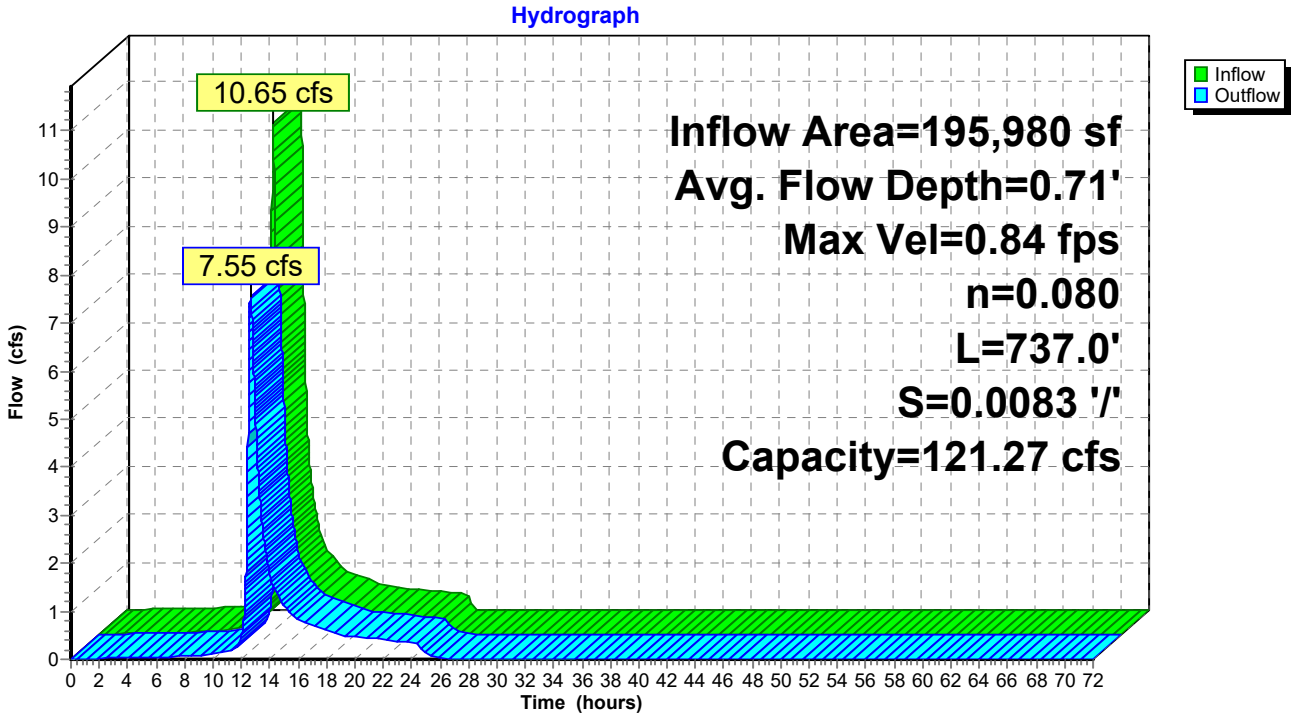
Peak Storage= 6,616 cf @ 12.41 hrs
Average Depth at Peak Storage= 0.71' , Surface Width= 25.42'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 121.27 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 737.0' Slope= 0.0083 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 31R: DA2B East Swale



Summary for Reach 33R: DA2B West Swale

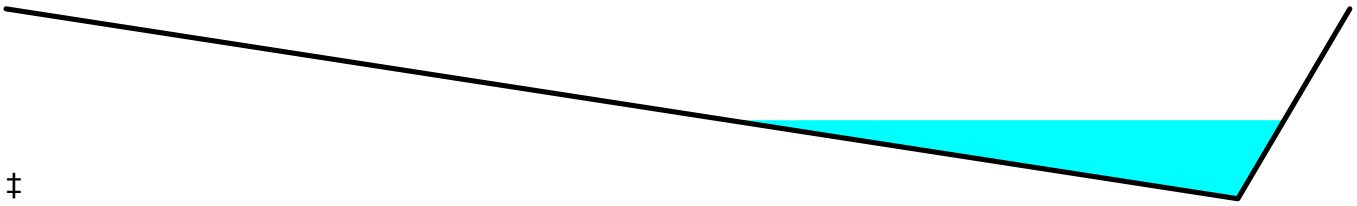
[61] Hint: Exceeded Reach 45R outlet invert by 0.83' @ 12.38 hrs

Inflow Area = 182,604 sf, 6.25% Impervious, Inflow Depth = 3.24" for 100-year_projected event
Inflow = 9.86 cfs @ 12.26 hrs, Volume= 49,350 cf
Outflow = 7.91 cfs @ 12.54 hrs, Volume= 49,350 cf, Atten= 20%, Lag= 16.8 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.64 fps, Min. Travel Time= 10.0 min
Avg. Velocity = 0.20 fps, Avg. Travel Time= 31.6 min

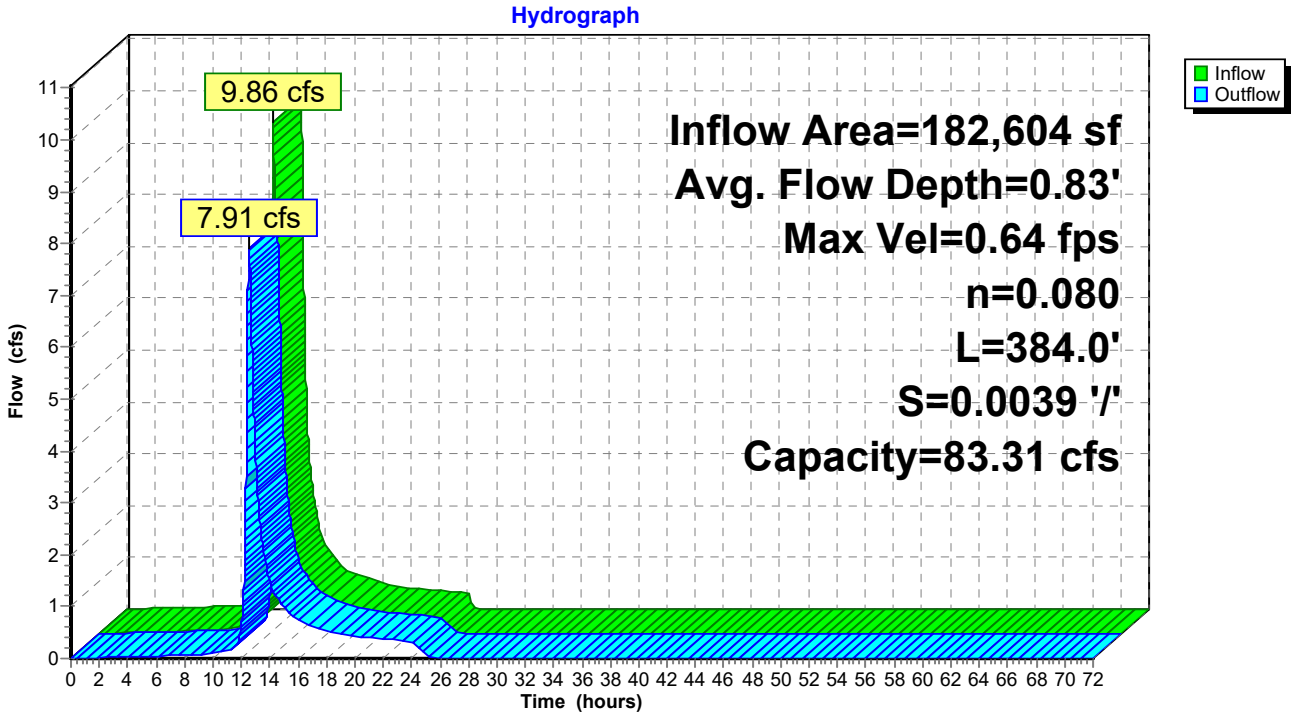
Peak Storage= 4,730 cf @ 12.38 hrs
Average Depth at Peak Storage= 0.83' , Surface Width= 29.78'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 83.31 cfs

0.00' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 384.0' Slope= 0.0039 '/'
Inlet Invert= 162.50', Outlet Invert= 161.00'



‡

Reach 33R: DA2B West Swale



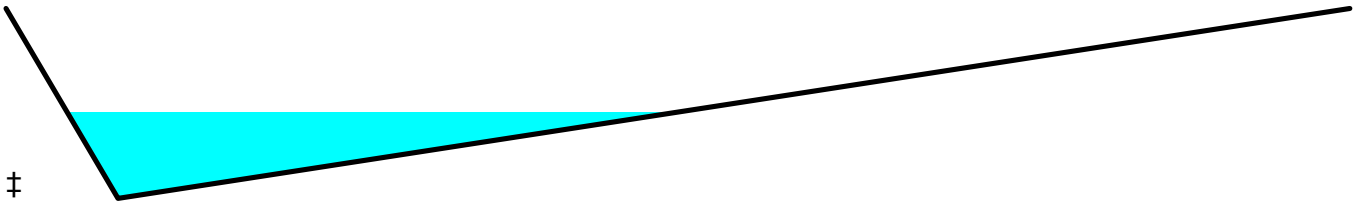
Summary for Reach 34R: DA4 West Swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 8.12" for 100-year_projected event
Inflow = 14.34 cfs @ 12.10 hrs, Volume= 47,305 cf
Outflow = 10.56 cfs @ 12.26 hrs, Volume= 47,305 cf, Atten= 26%, Lag= 9.7 min
Routed to Reach 43R : DA4 Roadside swale

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.71 fps, Min. Travel Time= 8.4 min
Avg. Velocity = 0.23 fps, Avg. Travel Time= 26.3 min

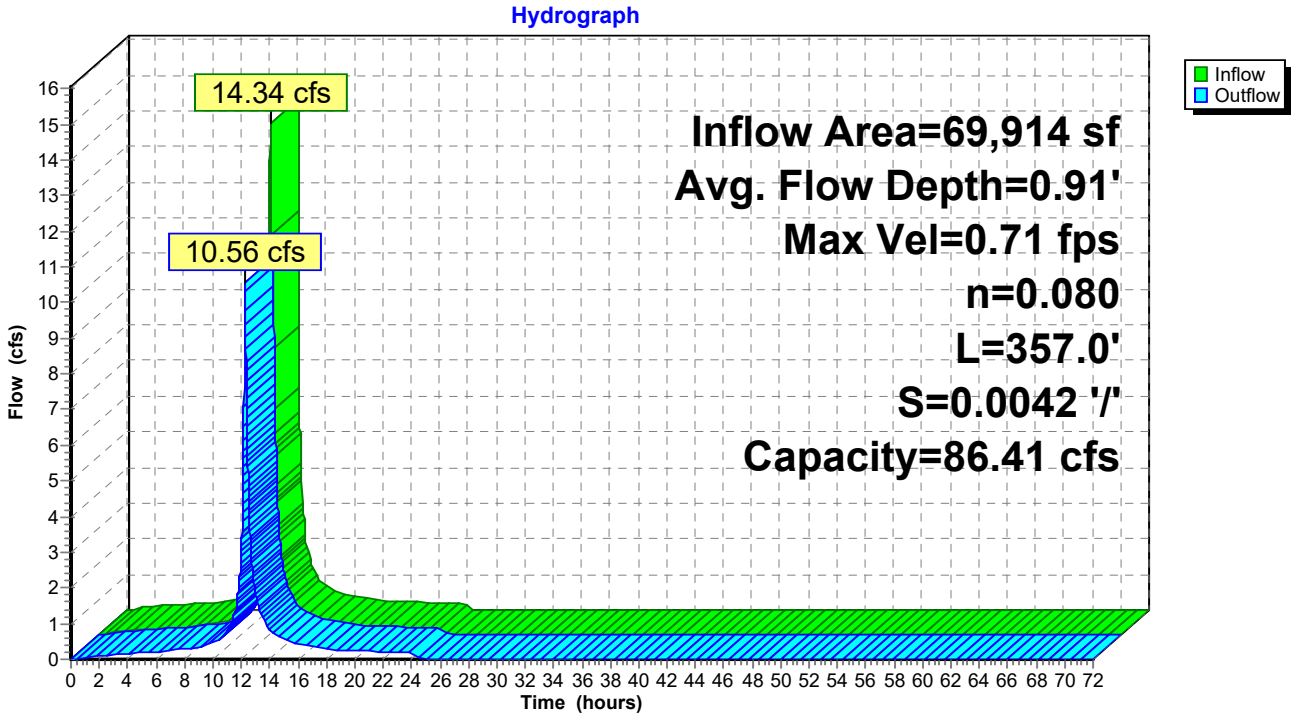
Peak Storage= 5,314 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.91' , Surface Width= 32.74'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 86.41 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 357.0' Slope= 0.0042 '/'
Inlet Invert= 163.50', Outlet Invert= 162.00'



‡

Reach 34R: DA4 West Swale



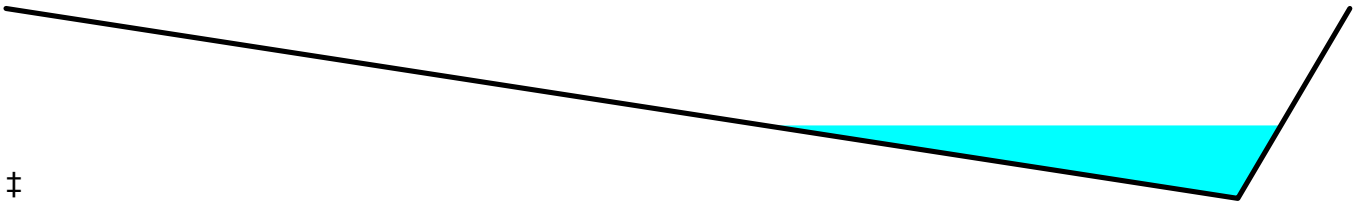
Summary for Reach 35R: DA2A West Swale

Inflow Area = 55,016 sf, 69.91% Impervious, Inflow Depth = 8.46" for 100-year_projected event
Inflow = 11.69 cfs @ 12.10 hrs, Volume= 38,797 cf
Outflow = 7.83 cfs @ 12.31 hrs, Volume= 38,797 cf, Atten= 33%, Lag= 12.8 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.74 fps, Min. Travel Time= 10.8 min
Avg. Velocity = 0.23 fps, Avg. Travel Time= 33.9 min

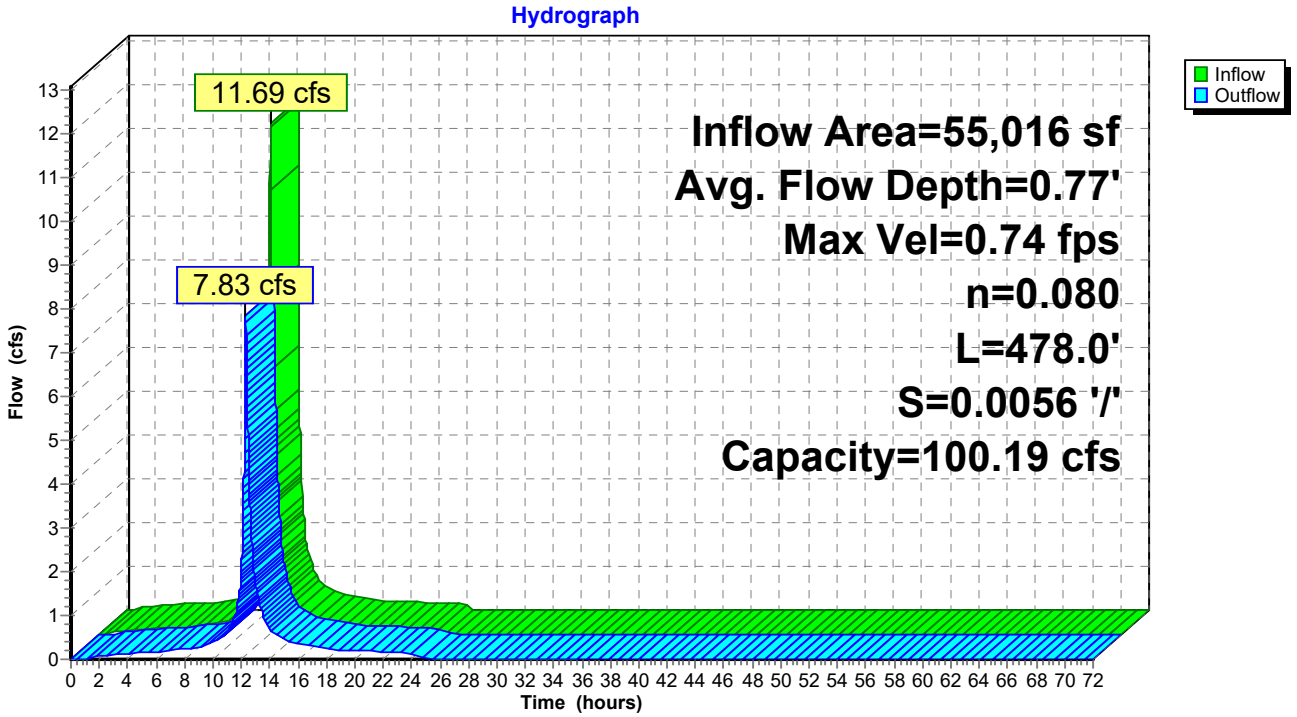
Peak Storage= 5,087 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.77' , Surface Width= 27.68'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 100.19 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 478.0' Slope= 0.0056 '/'
Inlet Invert= 162.20', Outlet Invert= 159.50'



‡

Reach 35R: DA2A West Swale



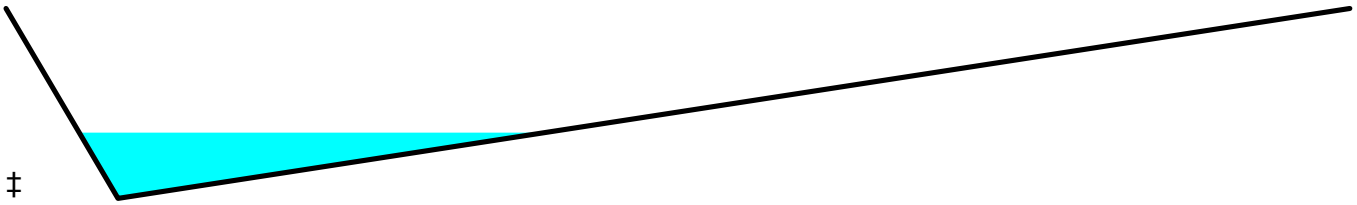
Summary for Reach 36R: DA2A East Swale

Inflow Area = 51,183 sf, 71.06% Impervious, Inflow Depth = 8.56" for 100-year_projected event
Inflow = 10.81 cfs @ 12.11 hrs, Volume= 36,496 cf
Outflow = 10.31 cfs @ 12.16 hrs, Volume= 36,496 cf, Atten= 5%, Lag= 2.9 min
Routed to Pond 26P : Basin 2A Forebay

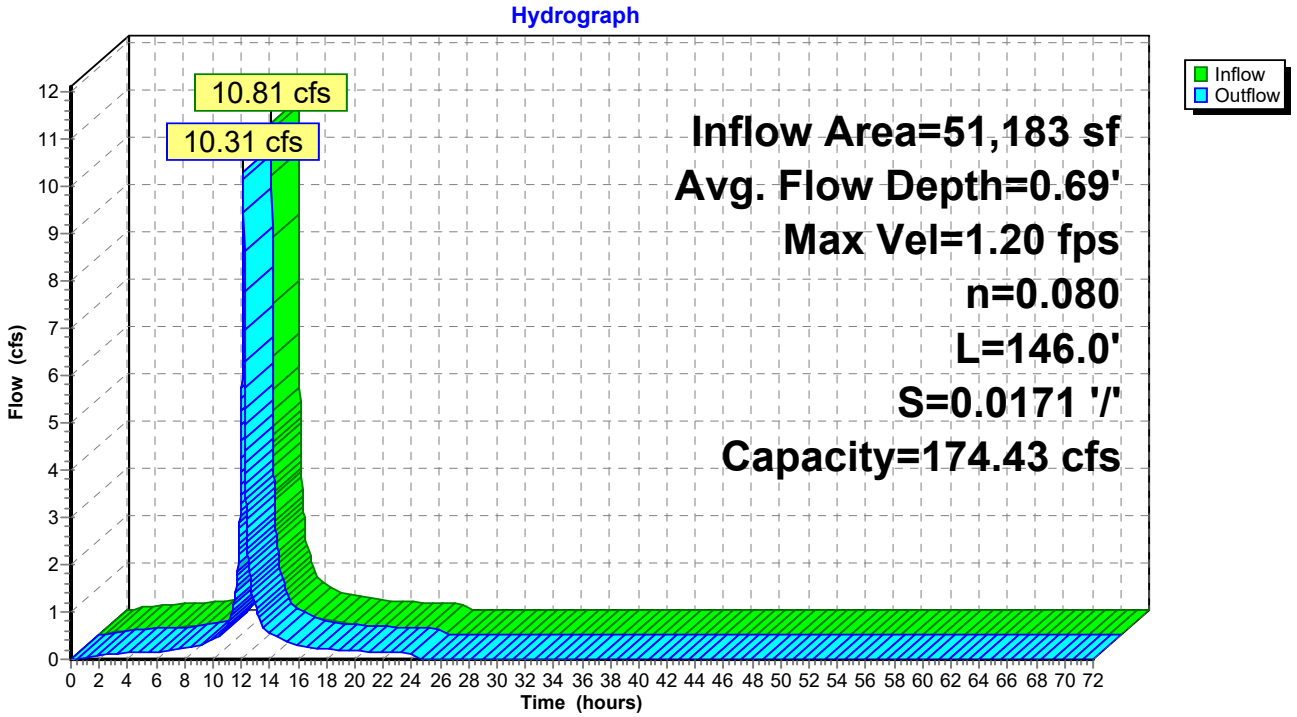
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.20 fps, Min. Travel Time= 2.0 min
Avg. Velocity = 0.45 fps, Avg. Travel Time= 5.4 min

Peak Storage= 1,262 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.69' , Surface Width= 24.94'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 174.43 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 146.0' Slope= 0.0171 '/'
Inlet Invert= 162.00', Outlet Invert= 159.50'



‡



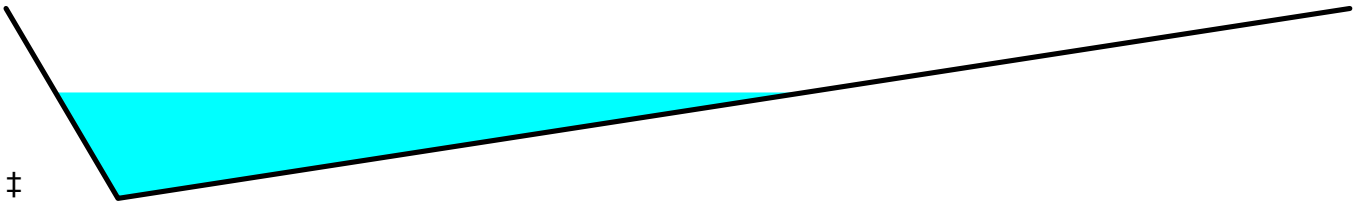
Summary for Reach 37R: DA1B Swale

Inflow Area = 104,152 sf, 91.22% Impervious, Inflow Depth = 10.21" for 100-year_projected event
Inflow = 26.14 cfs @ 12.11 hrs, Volume= 88,605 cf
Outflow = 20.27 cfs @ 12.25 hrs, Volume= 88,605 cf, Atten= 22%, Lag= 8.9 min
Routed to Pond 18P : Basin 1B Forebay

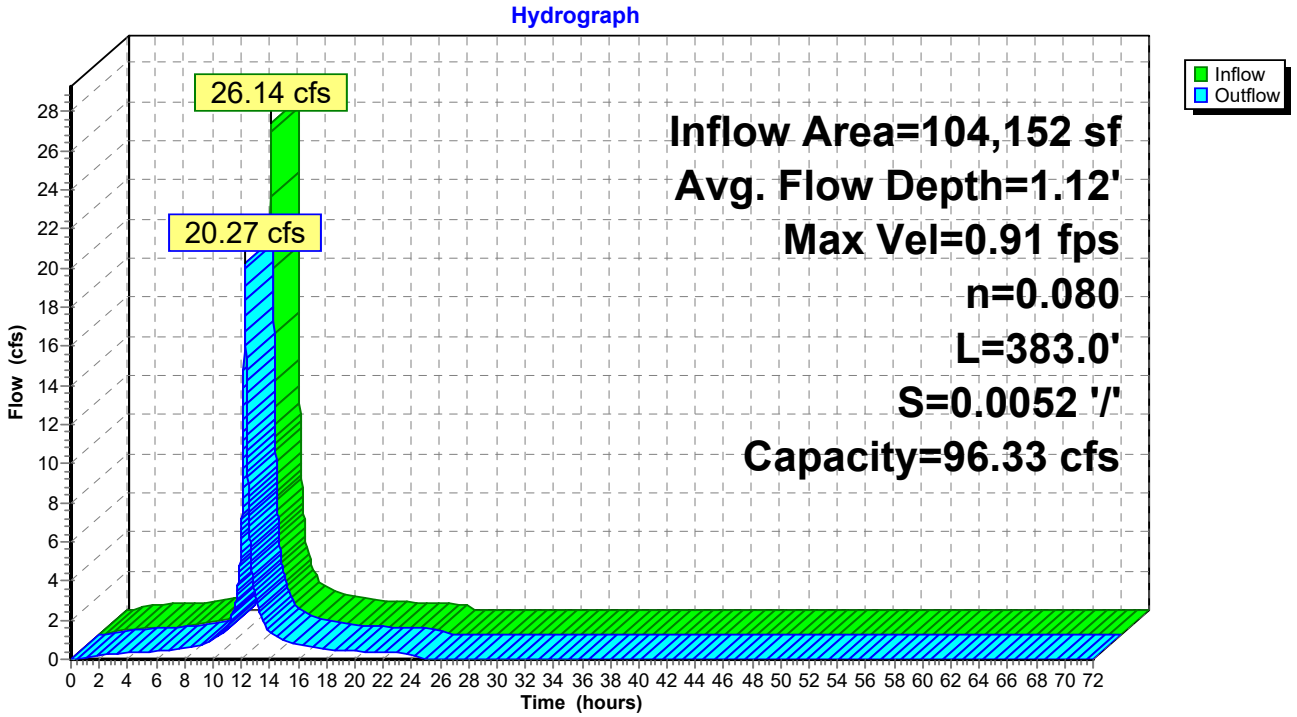
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.91 fps, Min. Travel Time= 7.0 min
Avg. Velocity = 0.29 fps, Avg. Travel Time= 22.4 min

Peak Storage= 8,579 cf @ 12.14 hrs
Average Depth at Peak Storage= 1.12' , Surface Width= 40.16'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 96.33 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 383.0' Slope= 0.0052 '/'
Inlet Invert= 162.00', Outlet Invert= 160.00'



‡



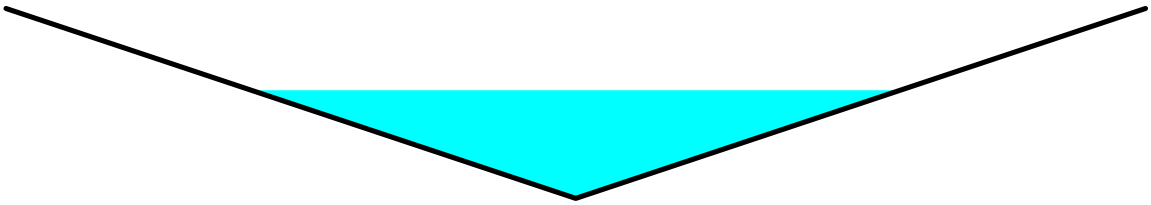
Summary for Reach 38R: DA3 Swale

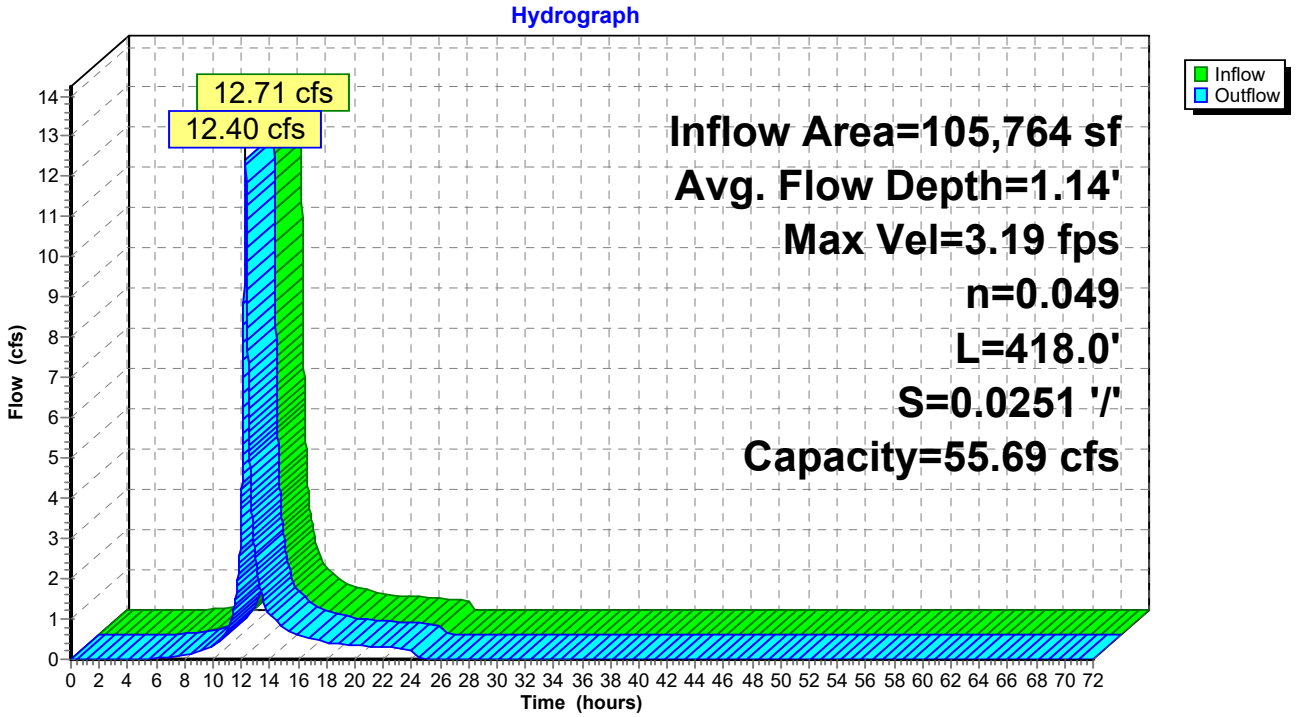
Inflow Area = 105,764 sf, 0.00% Impervious, Inflow Depth = 6.13" for 100-year_projected event
Inflow = 12.71 cfs @ 12.22 hrs, Volume= 54,024 cf
Outflow = 12.40 cfs @ 12.29 hrs, Volume= 54,024 cf, Atten= 2%, Lag= 3.9 min
Routed to Pond 38P : Basin 3 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.19 fps, Min. Travel Time= 2.2 min
Avg. Velocity = 1.25 fps, Avg. Travel Time= 5.6 min

Peak Storage= 1,627 cf @ 12.25 hrs
Average Depth at Peak Storage= 1.14' , Surface Width= 6.83'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 55.69 cfs

0.00' x 2.00' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 418.0' Slope= 0.0251 '/'
Inlet Invert= 158.50', Outlet Invert= 148.00'





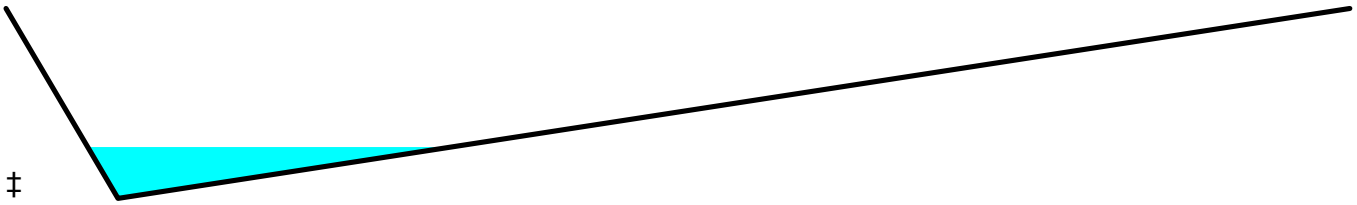
Summary for Reach 39R: DA 1A Central Swale A

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 3.24" for 100-year_projected event
Inflow = 4.32 cfs @ 12.23 hrs, Volume= 19,966 cf
Outflow = 2.90 cfs @ 12.63 hrs, Volume= 19,966 cf, Atten= 33%, Lag= 24.0 min
Routed to Reach 41R : DA 1A Central Swale B

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.55 fps, Min. Travel Time= 15.1 min
Avg. Velocity = 0.18 fps, Avg. Travel Time= 46.5 min

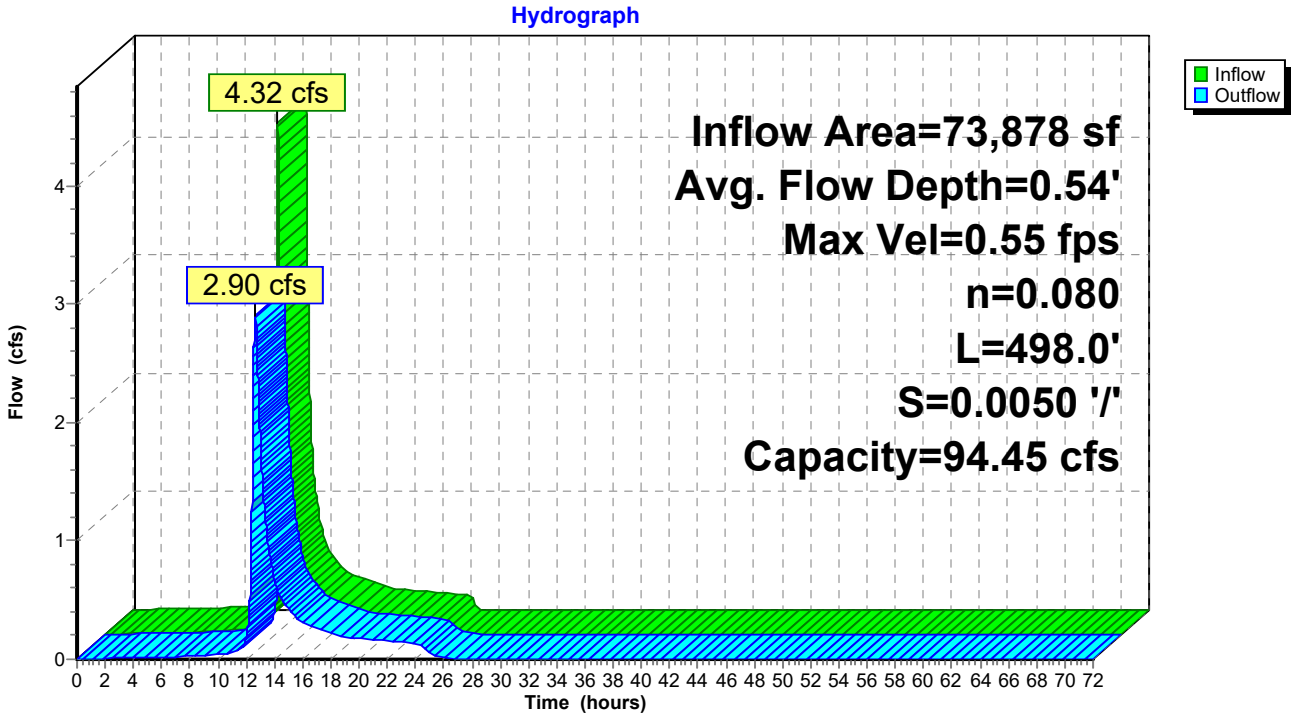
Peak Storage= 2,631 cf @ 12.38 hrs
Average Depth at Peak Storage= 0.54' , Surface Width= 19.50'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 94.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 498.0' Slope= 0.0050 '/'
Inlet Invert= 171.00', Outlet Invert= 168.50'



‡

Reach 39R: DA 1A Central Swale A



Summary for Reach 41R: DA 1A Central Swale B

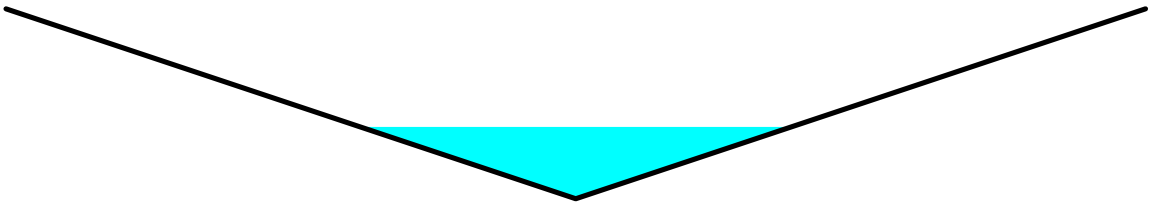
[62] Hint: Exceeded Reach 39R OUTLET depth by 0.28' @ 12.73 hrs

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 3.24" for 100-year_projected event
Inflow = 2.90 cfs @ 12.63 hrs, Volume= 19,966 cf
Outflow = 2.88 cfs @ 12.69 hrs, Volume= 19,966 cf, Atten= 1%, Lag= 3.5 min
Routed to Reach 30R : DA1A West Swale

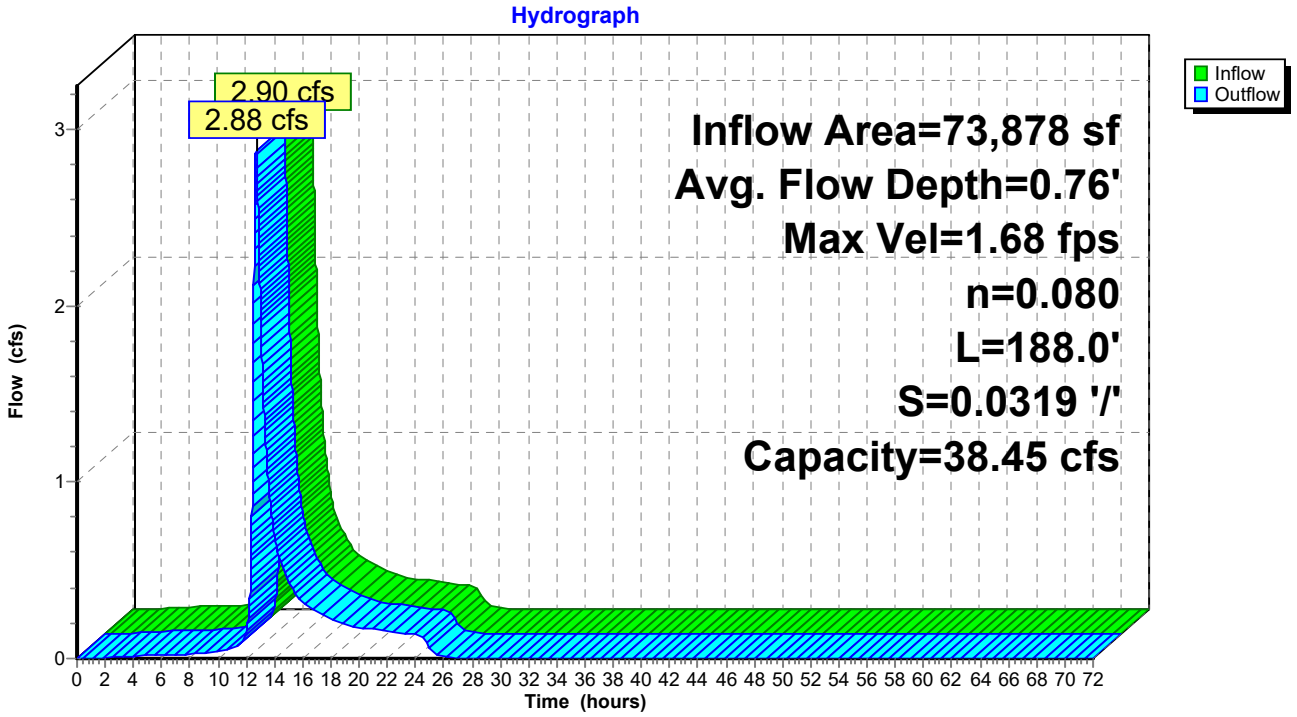
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.68 fps, Min. Travel Time= 1.9 min
Avg. Velocity = 0.56 fps, Avg. Travel Time= 5.6 min

Peak Storage= 323 cf @ 12.65 hrs
Average Depth at Peak Storage= 0.76' , Surface Width= 4.54'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 38.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 188.0' Slope= 0.0319 '/'
Inlet Invert= 168.50', Outlet Invert= 162.50'



Reach 41R: DA 1A Central Swale B



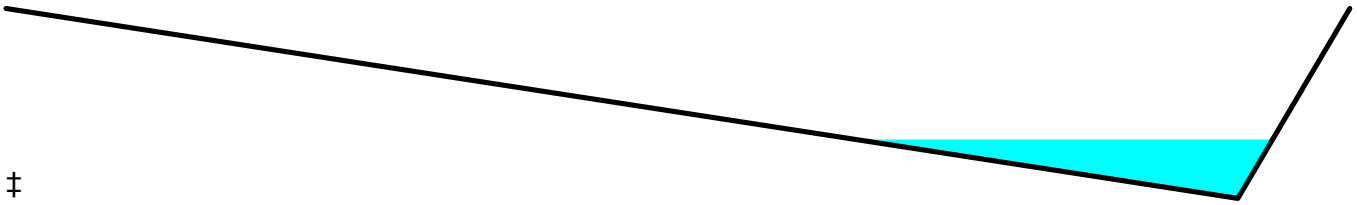
Summary for Reach 42R: DA4 East Swale

Inflow Area = 37,810 sf, 57.37% Impervious, Inflow Depth = 7.43" for 100-year_projected event
Inflow = 7.03 cfs @ 12.11 hrs, Volume= 23,424 cf
Outflow = 6.71 cfs @ 12.15 hrs, Volume= 23,424 cf, Atten= 5%, Lag= 2.8 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.97 fps, Min. Travel Time= 2.0 min
Avg. Velocity = 0.37 fps, Avg. Travel Time= 5.2 min

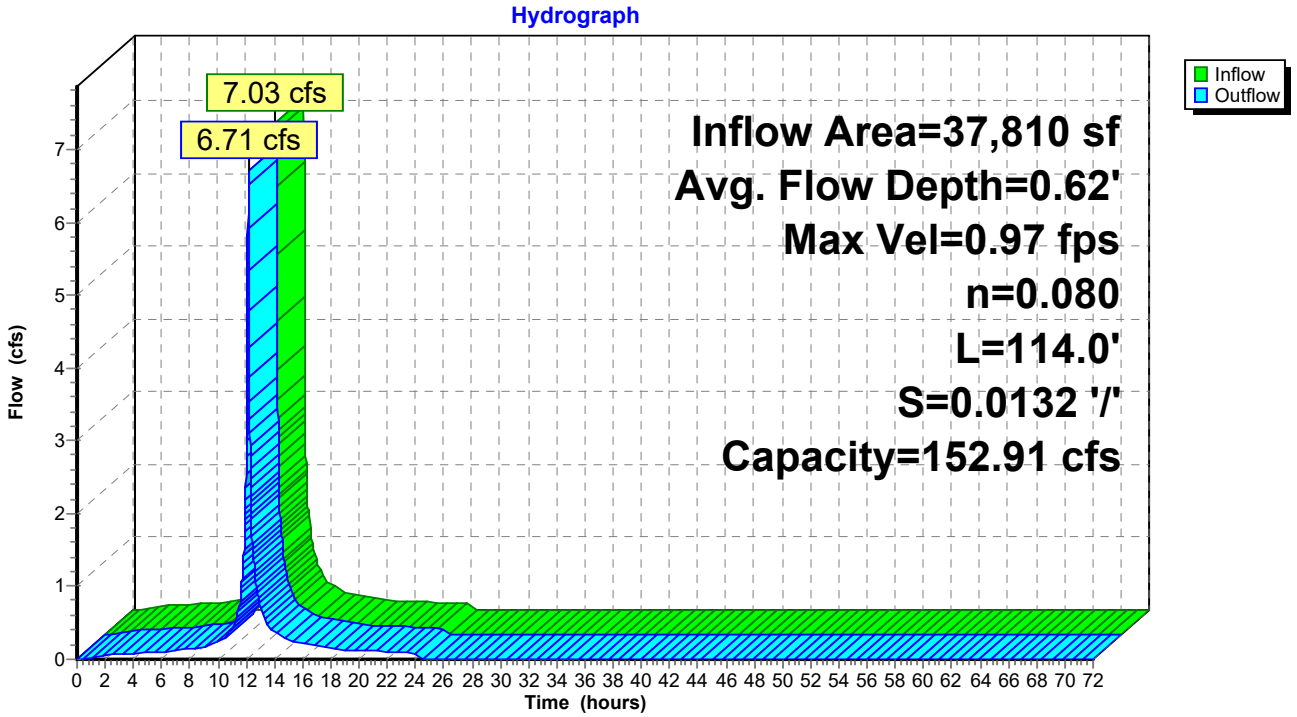
Peak Storage= 789 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.62' , Surface Width= 22.32'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 152.91 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 114.0' Slope= 0.0132 '/'
Inlet Invert= 159.50', Outlet Invert= 158.00'



‡

Reach 42R: DA4 East Swale



Summary for Reach 43R: DA4 Roadside swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 8.12" for 100-year_projected event
Inflow = 10.56 cfs @ 12.26 hrs, Volume= 47,305 cf
Outflow = 10.49 cfs @ 12.28 hrs, Volume= 47,305 cf, Atten= 1%, Lag= 1.0 min
Routed to Reach 44R : DA4 Culvert

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.91 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 0.82 fps, Avg. Travel Time= 2.1 min

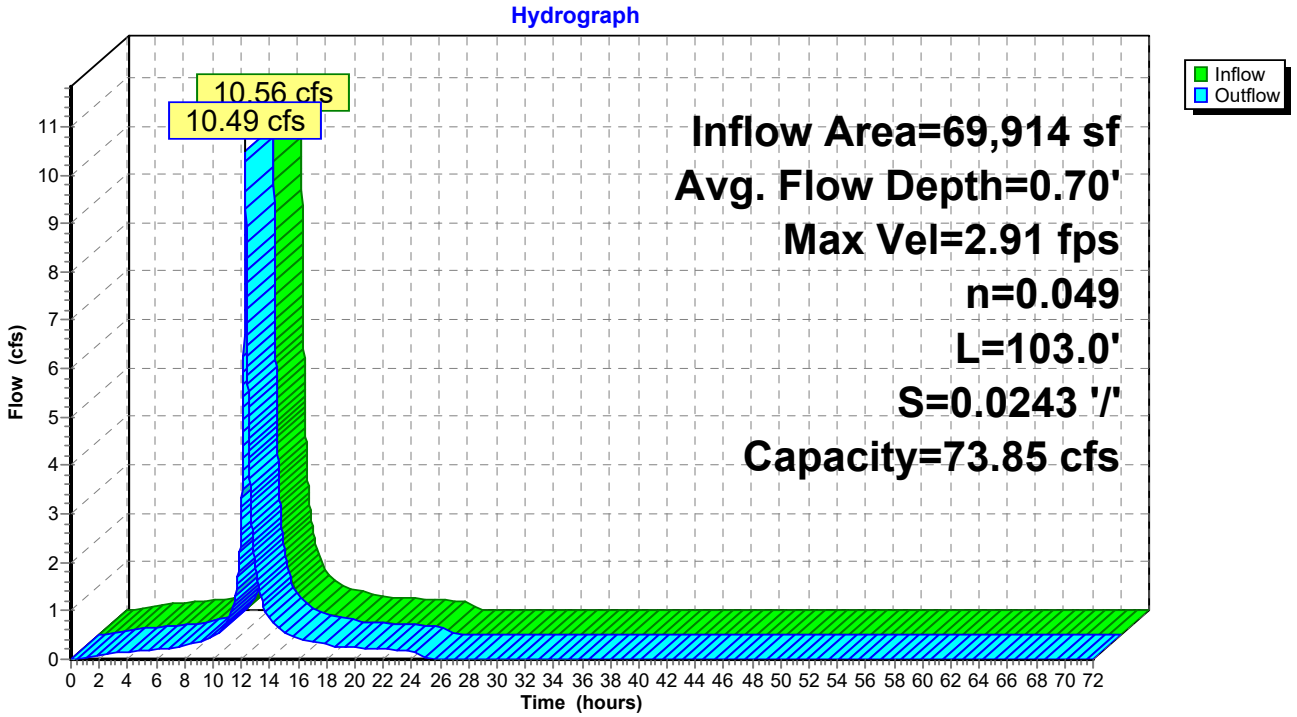
Peak Storage= 371 cf @ 12.27 hrs
Average Depth at Peak Storage= 0.70' , Surface Width= 7.23'
Bank-Full Depth= 1.80' Flow Area= 15.1 sf, Capacity= 73.85 cfs

3.00' x 1.80' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 13.80'
Length= 103.0' Slope= 0.0243 '/'
Inlet Invert= 160.20', Outlet Invert= 157.70'



‡

Reach 43R: DA4 Roadside swale



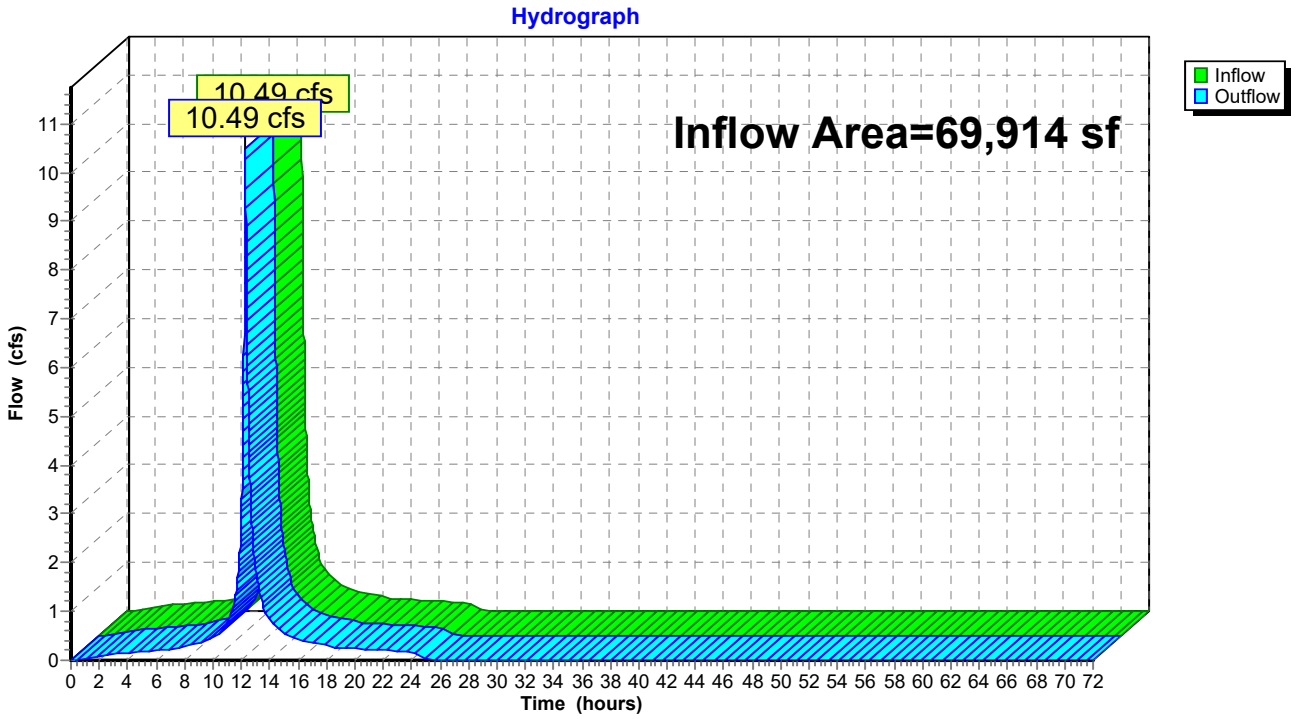
Summary for Reach 44R: DA4 Culvert

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 8.12" for 100-year_projected event
Inflow = 10.49 cfs @ 12.28 hrs, Volume= 47,305 cf
Outflow = 10.49 cfs @ 12.28 hrs, Volume= 47,305 cf, Atten= 0%, Lag= 0.0 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach 44R: DA4 Culvert

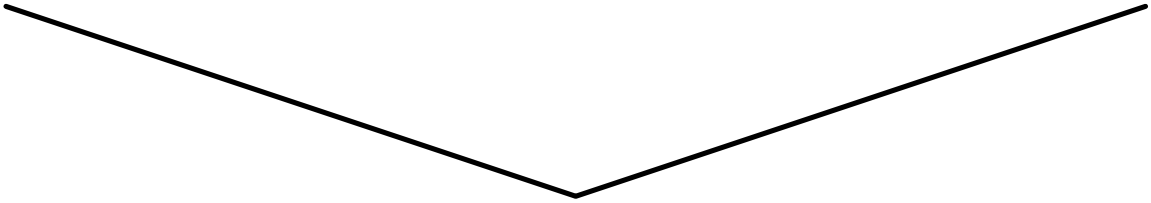


Summary for Reach 45R: DA2B Road Swale

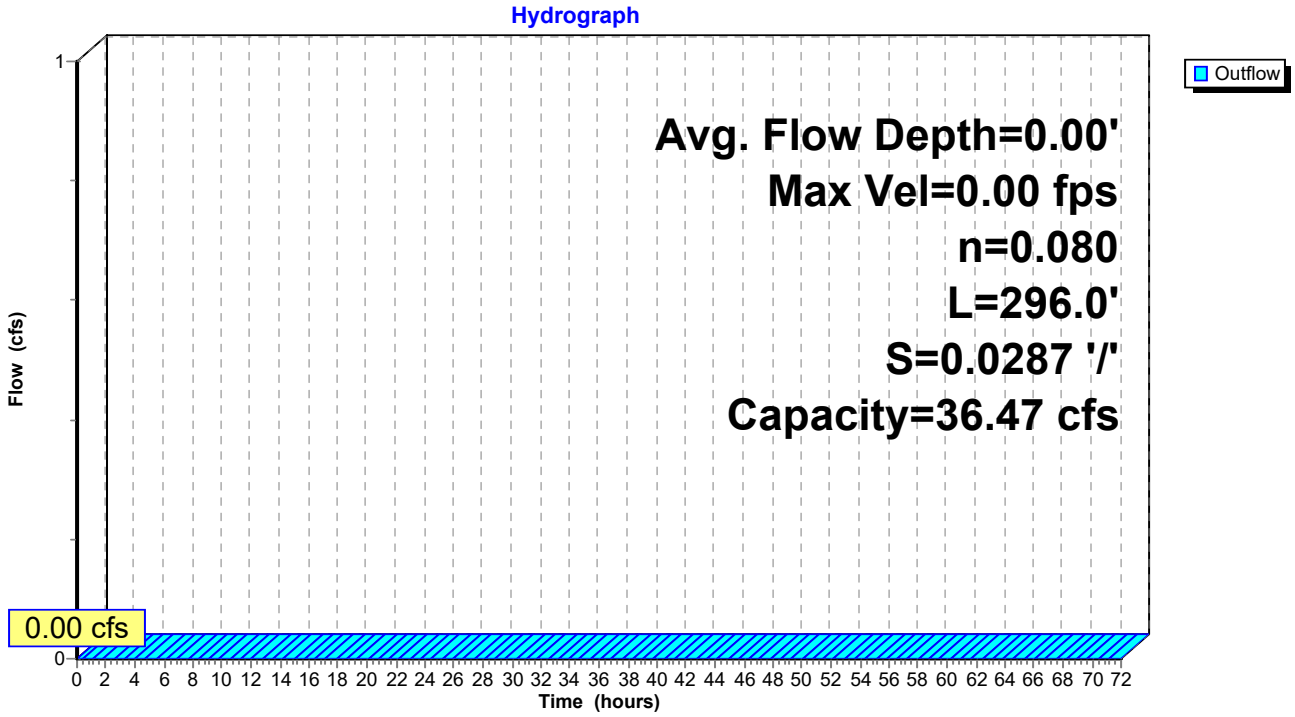
[43] Hint: Has no inflow (Outflow=Zero)

Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 36.47 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 296.0' Slope= 0.0287 '/'
Inlet Invert= 171.00', Outlet Invert= 162.50'



Reach 45R: DA2B Road Swale



Summary for Pond 15P: Basin 1A Forebay

[93] Warning: Storage range exceeded by 0.04'
[88] Warning: Qout>Qin may require smaller dt or Finer Routing
[85] Warning: Oscillations may require smaller dt or Finer Routing (severity=19)

Inflow Area = 510,150 sf, 6.82% Impervious, Inflow Depth = 3.29" for 100-year_projected event
Inflow = 16.41 cfs @ 12.73 hrs, Volume= 139,850 cf
Outflow = 16.67 cfs @ 12.72 hrs, Volume= 136,612 cf, Atten= 0%, Lag= 0.0 min
Primary = 16.67 cfs @ 12.72 hrs, Volume= 136,612 cf
Routed to Pond 48P : Basin 1A Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 159.24' @ 12.72 hrs Surf.Area= 1,910 sf Storage= 3,964 cf

Plug-Flow detention time= 28.8 min calculated for 136,593 cf (98% of inflow)
Center-of-Mass det. time= 14.8 min (929.9 - 915.1)

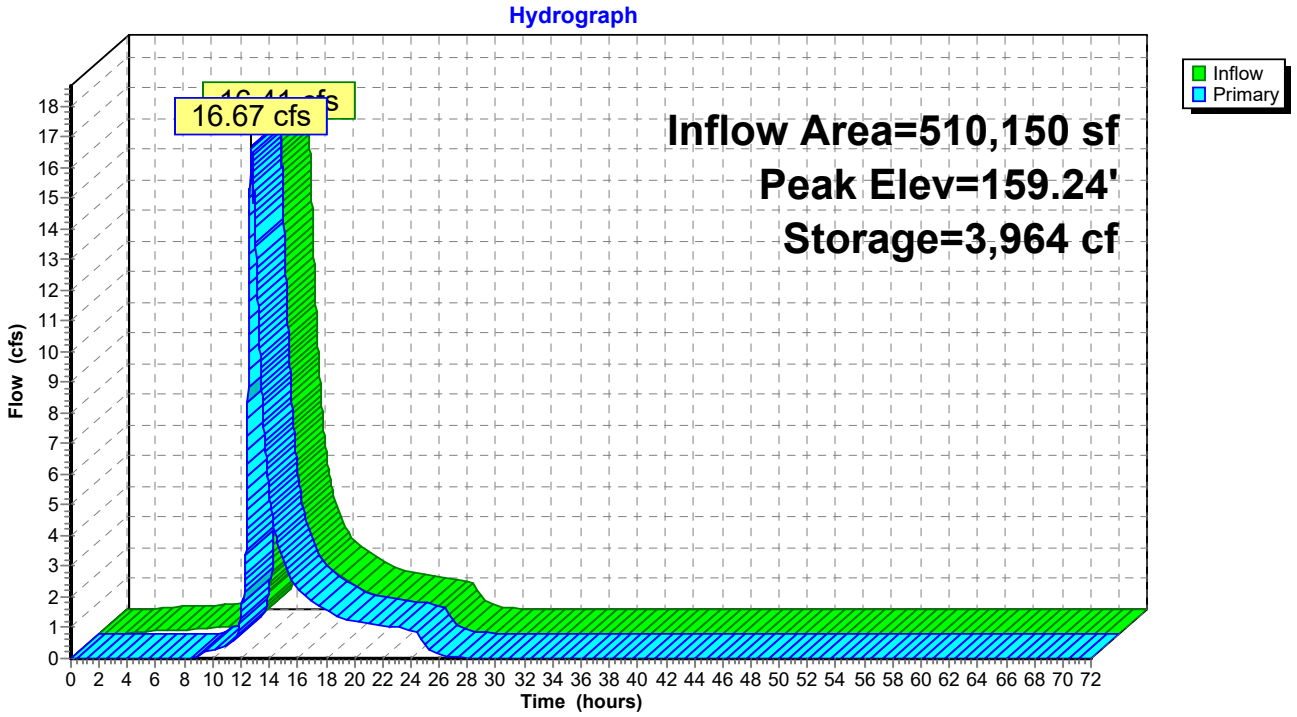
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	3,964 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	662	0	0
156.20	723	138	138
156.70	885	402	540
157.20	1,062	487	1,027
157.70	1,253	579	1,606
158.20	1,458	678	2,284
158.70	1,677	784	3,067
159.20	1,910	897	3,964

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.80'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Primary	159.00'	**25.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=16.65 cfs @ 12.72 hrs HW=159.24' (Free Discharge)
└**2=Culvert** (Passes 8.98 cfs of 17.87 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 8.98 cfs @ 2.17 fps)
└**3=Broad-Crested Rectangular Weir** (Weir Controls 7.66 cfs @ 1.24 fps)

Pond 15P: Basin 1A Forebay



Summary for Pond 18P: Basin 1B Forebay

Inflow Area = 114,201 sf, 89.03% Impervious, Inflow Depth = 10.10" for 100-year_projected event
Inflow = 20.87 cfs @ 12.25 hrs, Volume= 96,122 cf
Outflow = 15.06 cfs @ 12.34 hrs, Volume= 86,112 cf, Atten= 28%, Lag= 5.4 min
Primary = 11.64 cfs @ 12.34 hrs, Volume= 84,317 cf
Routed to Pond 43P : Basin 1B Bioretention
Secondary = 3.42 cfs @ 12.34 hrs, Volume= 1,795 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 159.75' @ 12.34 hrs Surf.Area= 5,940 sf Storage= 16,786 cf

Plug-Flow detention time= 115.0 min calculated for 86,100 cf (90% of inflow)
Center-of-Mass det. time= 58.2 min (816.8 - 758.6)

Volume	Invert	Avail.Storage	Storage Description
#1	155.98'	18,291 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

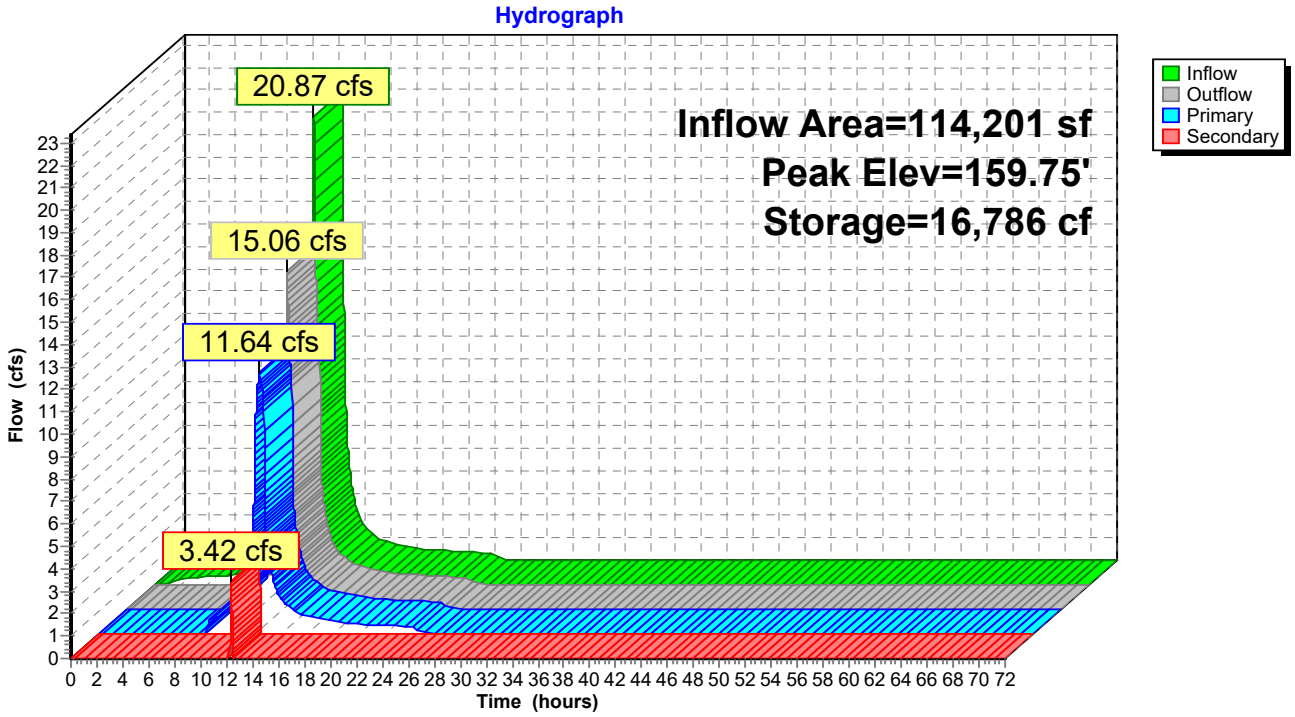
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.98	3,096	0	0
156.00	3,108	62	62
156.50	3,440	1,637	1,699
157.00	3,785	1,806	3,505
157.50	4,145	1,983	5,488
158.00	4,518	2,166	7,654
158.50	4,906	2,356	10,010
159.00	5,308	2,554	12,563
159.50	5,724	2,758	15,321
160.00	6,154	2,970	18,291

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	159.50'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=11.64 cfs @ 12.34 hrs HW=159.75' (Free Discharge)
2=Culvert (Inlet Controls 11.64 cfs @ 6.58 fps)
1=Orifice/Grate (Passes 11.64 cfs of 38.06 cfs potential flow)

Secondary OutFlow Max=3.40 cfs @ 12.34 hrs HW=159.75' (Free Discharge)
3=Broad-Crested Rectangular Weir (Weir Controls 3.40 cfs @ 1.26 fps)

Pond 18P: Basin 1B Forebay



Summary for Pond 26P: Basin 2A Forebay

Inflow Area = 114,388 sf, 72.58% Impervious, Inflow Depth = 8.68" for 100-year_projected event
Inflow = 14.82 cfs @ 12.16 hrs, Volume= 82,750 cf
Outflow = 12.79 cfs @ 12.20 hrs, Volume= 75,504 cf, Atten= 14%, Lag= 2.4 min
Primary = 8.83 cfs @ 12.20 hrs, Volume= 72,317 cf
Routed to Pond 44P : Basin 2A Bioretention
Secondary = 3.96 cfs @ 12.20 hrs, Volume= 3,187 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.48' @ 12.20 hrs Surf.Area= 5,549 sf Storage= 11,322 cf

Plug-Flow detention time= 102.4 min calculated for 75,504 cf (91% of inflow)
Center-of-Mass det. time= 52.2 min (817.2 - 765.0)

Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	11,435 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

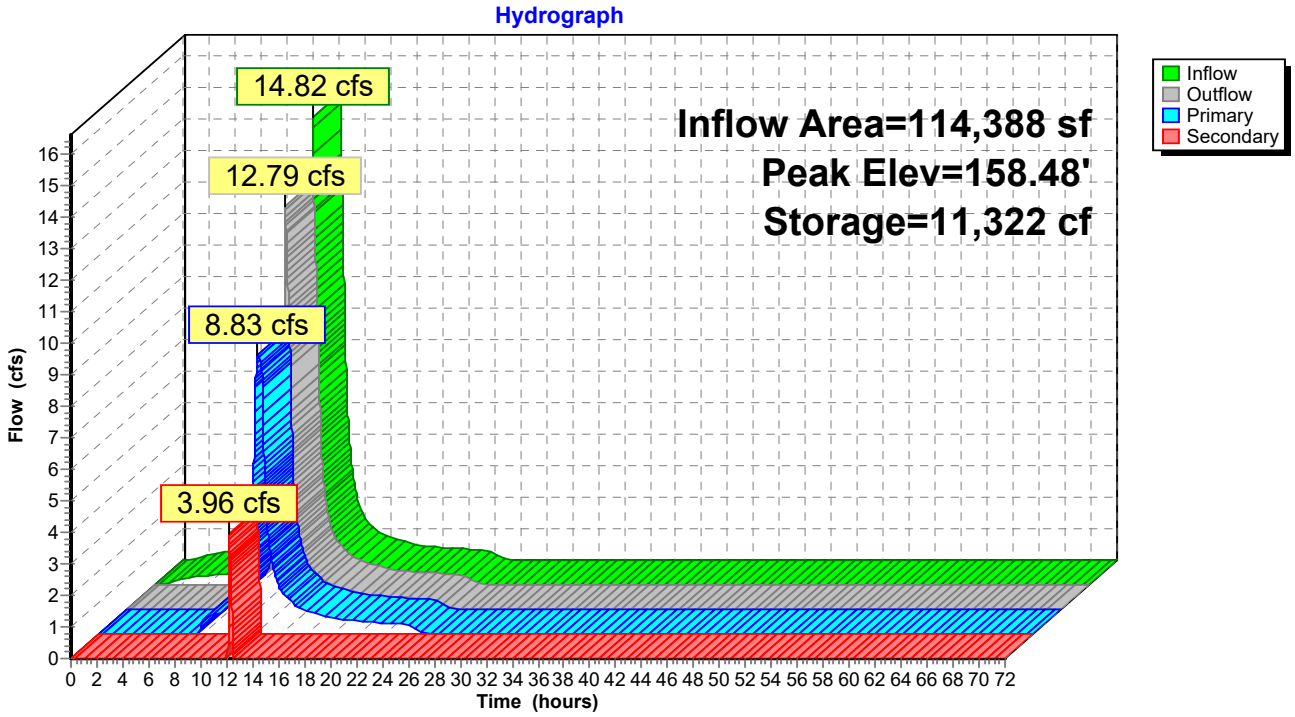
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	3,639	0	0
156.50	3,996	1,909	1,909
157.00	4,367	2,091	4,000
157.50	4,753	2,280	6,280
158.00	5,152	2,476	8,756
158.50	5,566	2,680	11,435

Device	Routing	Invert	Outlet Devices
#1	Secondary	158.30'	**20.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32
#2	Device 3	157.70'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Primary	156.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.00' S= 0.0417 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=8.83 cfs @ 12.20 hrs HW=158.48' (Free Discharge)
└**3=Culvert** (Inlet Controls 8.83 cfs @ 5.00 fps)
└**2=Orifice/Grate** (Passes 8.83 cfs of 21.20 cfs potential flow)

Secondary OutFlow Max=3.94 cfs @ 12.20 hrs HW=158.48' (Free Discharge)
└**1=Broad-Crested Rectangular Weir** (Weir Controls 3.94 cfs @ 1.07 fps)

Pond 26P: Basin 2A Forebay



Summary for Pond 38P: Basin 3 Forebay

Inflow Area = 106,766 sf, 0.94% Impervious, Inflow Depth = 6.17" for 100-year_projected event
Inflow = 12.47 cfs @ 12.29 hrs, Volume= 54,936 cf
Outflow = 9.47 cfs @ 12.40 hrs, Volume= 49,478 cf, Atten= 24%, Lag= 7.0 min
Primary = 8.63 cfs @ 12.40 hrs, Volume= 49,147 cf
Routed to Pond 60P : Basin 3 Bioretention
Secondary = 0.84 cfs @ 12.40 hrs, Volume= 330 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 146.40' @ 12.40 hrs Surf.Area= 4,884 sf Storage= 9,539 cf

Plug-Flow detention time= 84.5 min calculated for 49,478 cf (90% of inflow)
Center-of-Mass det. time= 33.1 min (869.8 - 836.7)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	18,417 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

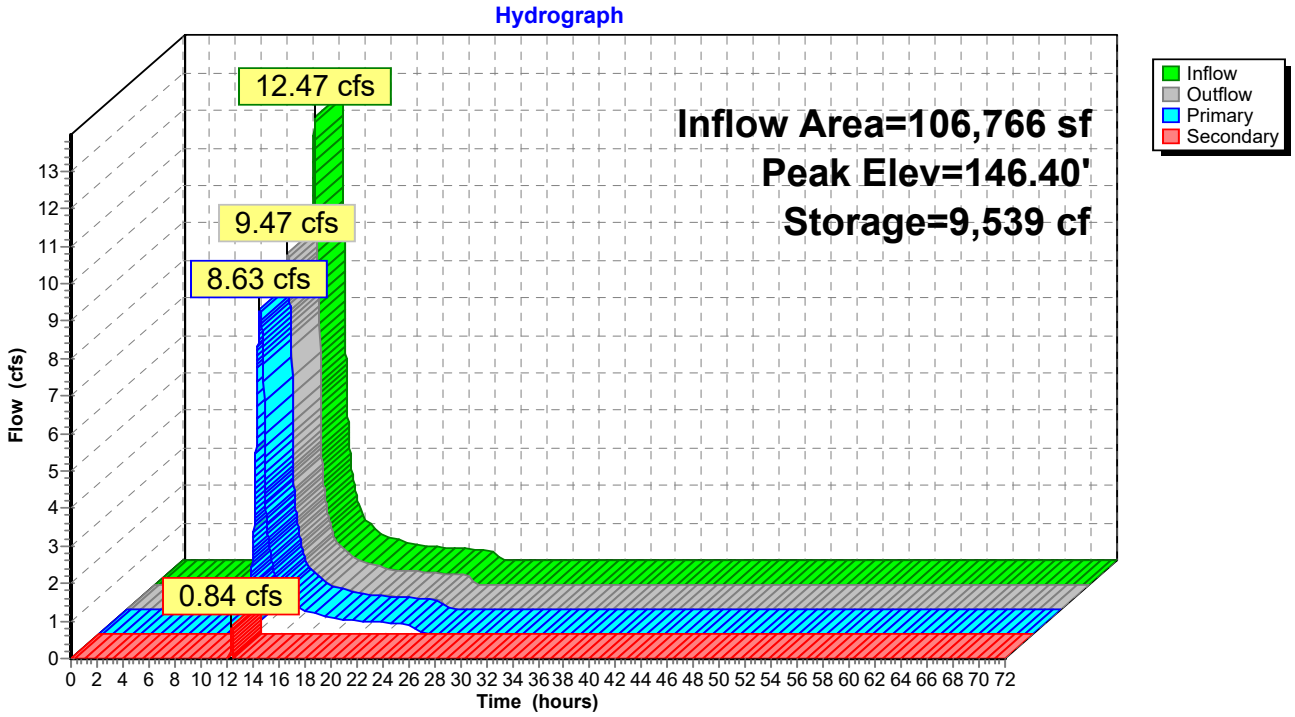
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.00	3,115	0	0
144.50	3,456	1,643	1,643
145.00	3,812	1,817	3,460
145.50	4,182	1,999	5,458
146.00	4,565	2,187	7,645
146.50	4,963	2,382	10,027
147.00	5,375	2,585	12,612
147.50	5,802	2,794	15,406
148.00	6,242	3,011	18,417

Device	Routing	Invert	Outlet Devices
#1	Device 2	145.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	144.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 144.00' / 143.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=8.63 cfs @ 12.40 hrs HW=146.40' (Free Discharge)
↑—**2=Culvert** (Inlet Controls 8.63 cfs @ 4.88 fps)
↑—**1=Orifice/Grate** (Passes 8.63 cfs of 26.34 cfs potential flow)

Secondary OutFlow Max=0.83 cfs @ 12.40 hrs HW=146.40' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Weir Controls 0.83 cfs @ 0.80 fps)

Pond 38P: Basin 3 Forebay



Summary for Pond 39P: Basin 4 Forebay

[62] Hint: Exceeded Reach 42R OUTLET depth by 0.31' @ 12.34 hrs

Inflow Area = 112,908 sf, 64.51% Impervious, Inflow Depth = 8.02" for 100-year_projected event
Inflow = 13.54 cfs @ 12.27 hrs, Volume= 75,450 cf
Outflow = 11.54 cfs @ 12.32 hrs, Volume= 66,240 cf, Atten= 15%, Lag= 3.1 min
Primary = 11.54 cfs @ 12.32 hrs, Volume= 66,240 cf
Routed to Pond 51P : Basin 4 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.70' @ 12.32 hrs Surf.Area= 4,633 sf Storage= 12,263 cf

Plug-Flow detention time= 126.8 min calculated for 66,230 cf (88% of inflow)
Center-of-Mass det. time= 62.2 min (833.3 - 771.1)

Volume	Invert	Avail.Storage	Storage Description
#1	155.00'	15,703 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

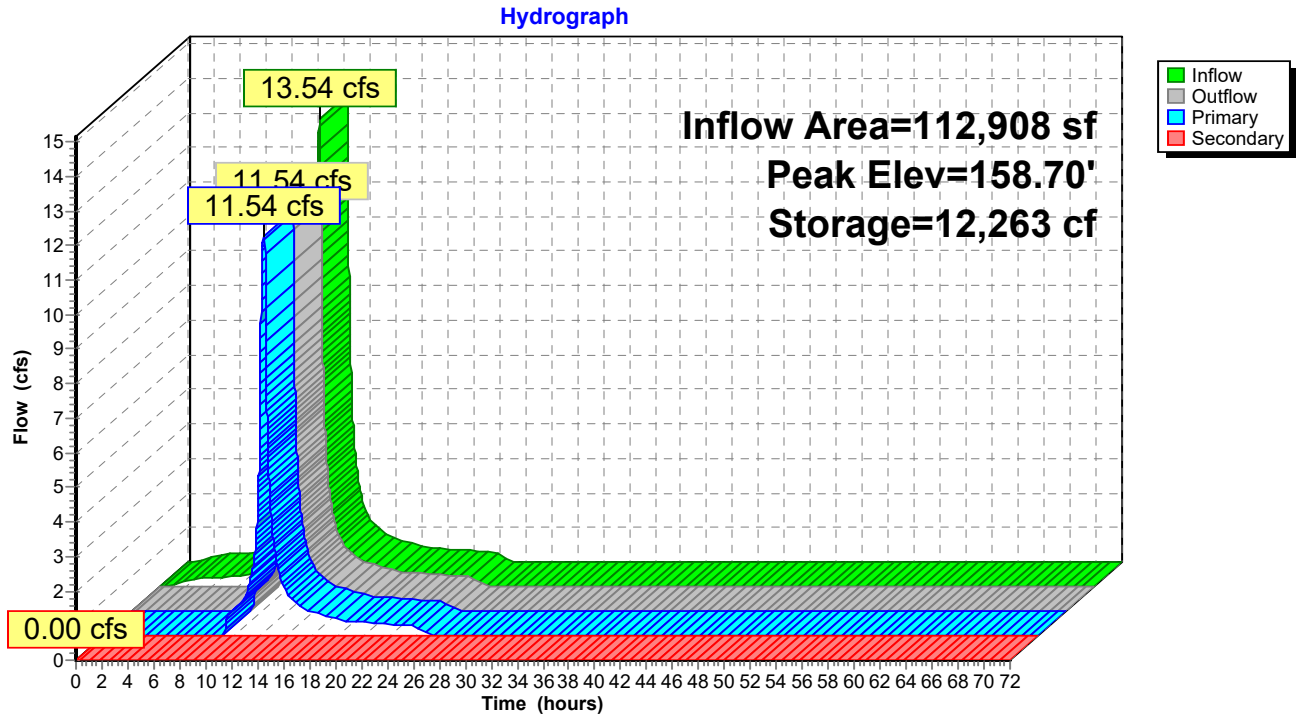
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.00	2,116	0	0
155.40	2,360	895	895
155.90	2,665	1,256	2,151
156.40	2,983	1,412	3,563
156.90	3,316	1,575	5,138
157.40	3,663	1,745	6,883
157.50	3,734	370	7,253
157.90	4,024	1,552	8,804
158.40	4,400	2,106	10,910
158.90	4,789	2,297	13,208
159.40	5,192	2,495	15,703

Device	Routing	Invert	Outlet Devices
#1	Primary	155.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 155.00' / 154.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	158.00'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	158.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=11.54 cfs @ 12.32 hrs HW=158.70' (Free Discharge)
└**1=Culvert** (Inlet Controls 11.54 cfs @ 6.53 fps)
└**2=Orifice/Grate** (Passes 11.54 cfs of 18.01 cfs potential flow)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 39P: Basin 4 Forebay



Summary for Pond 43P: Basin 1B Bioretention

[79] Warning: Submerged Pond 18P Primary device # 2 INLET by 2.03'

Inflow Area = 126,097 sf, 87.23% Impervious, Inflow Depth = 8.89" for 100-year_projected event
Inflow = 12.43 cfs @ 12.09 hrs, Volume= 93,423 cf
Outflow = 12.04 cfs @ 12.40 hrs, Volume= 73,437 cf, Atten= 3%, Lag= 19.0 min
Primary = 12.04 cfs @ 12.40 hrs, Volume= 73,437 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.03' @ 12.40 hrs Surf.Area= 7,796 sf Storage= 24,014 cf

Plug-Flow detention time= 147.7 min calculated for 73,437 cf (79% of inflow)
Center-of-Mass det. time= 61.0 min (872.8 - 811.8)

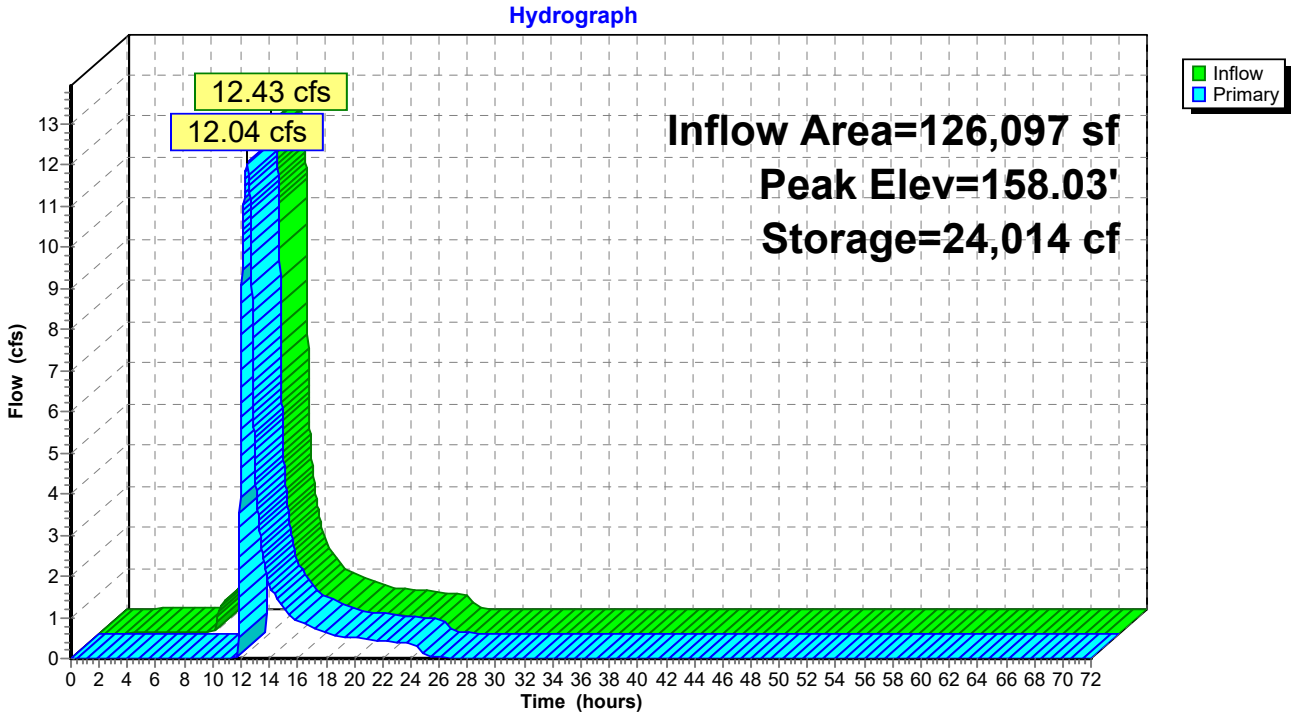
Volume	Invert	Avail.Storage	Storage Description
#1	153.98'	24,528 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.98	4,198	0	0
154.00	4,213	84	84
154.50	4,608	2,205	2,289
155.00	5,017	2,406	4,696
155.50	5,440	2,614	7,310
156.00	5,877	2,829	10,139
156.50	6,328	3,051	13,190
157.00	6,793	3,280	16,471
157.50	7,272	3,516	19,987
158.00	7,768	3,760	23,747
158.10	7,850	781	24,528

Device	Routing	Invert	Outlet Devices
#1	Device 2	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	154.00'	**24.0" Round Culvert** L= 32.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 152.00' S= 0.0625 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=12.04 cfs @ 12.40 hrs HW=158.03' (Free Discharge)
↑**2=Culvert** (Passes 12.04 cfs of 20.80 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 12.04 cfs @ 2.39 fps)

Pond 43P: Basin 1B Bioretention



Summary for Pond 44P: Basin 2A Bioretention

[79] Warning: Submerged Pond 26P Primary device # 3 INLET by 1.96'

Inflow Area = 127,935 sf, 75.49% Impervious, Inflow Depth = 7.94" for 100-year_projected event
Inflow = 11.92 cfs @ 12.09 hrs, Volume= 84,655 cf
Outflow = 9.64 cfs @ 12.29 hrs, Volume= 61,971 cf, Atten= 19%, Lag= 12.5 min
Primary = 9.64 cfs @ 12.29 hrs, Volume= 61,971 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.96' @ 12.29 hrs Surf.Area= 8,910 sf Storage= 26,666 cf

Plug-Flow detention time= 181.6 min calculated for 61,971 cf (73% of inflow)
Center-of-Mass det. time= 80.5 min (888.4 - 807.9)

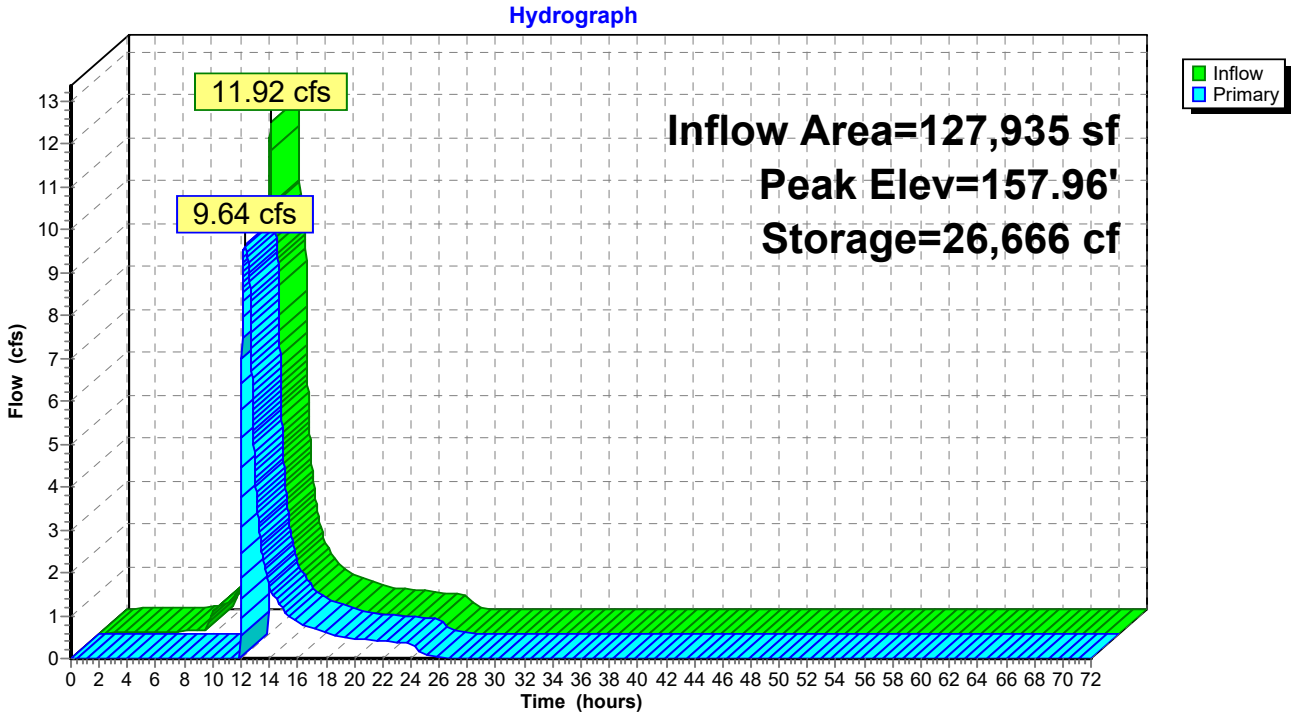
Volume	Invert	Avail.Storage	Storage Description
#1	154.00'	27,017 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
154.00	4,692	0	0
154.50	5,178	2,468	2,468
155.00	5,678	2,714	5,182
155.50	6,192	2,968	8,149
156.00	6,718	3,228	11,377
156.50	7,258	3,494	14,871
157.00	7,810	3,767	18,638
157.50	8,376	4,047	22,684
158.00	8,955	4,333	27,017

Device	Routing	Invert	Outlet Devices
#1	Primary	154.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 153.00' S= 0.0417 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=9.64 cfs @ 12.29 hrs HW=157.96' (Free Discharge)
↑**1=Culvert** (Passes 9.64 cfs of 12.04 cfs potential flow)
↑**2=Orifice/Grate** (Weir Controls 9.64 cfs @ 2.22 fps)

Pond 44P: Basin 2A Bioretention



Summary for Pond 45P: Basin 2A Infiltration

[79] Warning: Submerged Pond 44P Primary device # 1 INLET by 0.95'

Inflow Area = 177,071 sf, 82.29% Impervious, Inflow Depth = 7.45" for 100-year_projected event
Inflow = 21.56 cfs @ 12.09 hrs, Volume= 109,908 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.95' @ 71.66 hrs Surf.Area= 29,795 sf Storage= 109,906 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

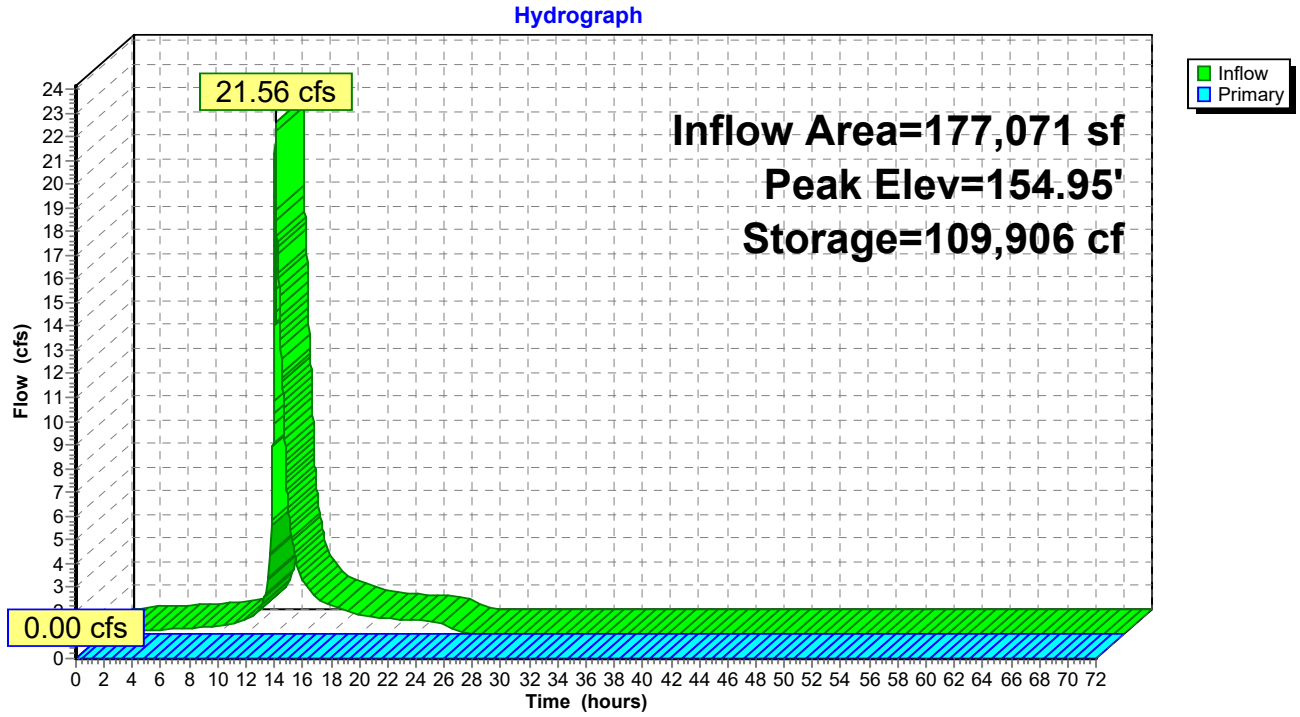
Volume	Invert	Avail.Storage	Storage Description
#1	150.50'	211,473 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.50	13,884	0	0
151.00	21,491	8,844	8,844
151.50	22,475	10,992	19,835
152.00	23,686	11,540	31,376
152.50	24,504	12,048	43,423
153.00	25,550	12,514	55,937
153.50	26,612	13,041	68,977
154.00	27,691	13,576	82,553
154.50	28,785	14,119	96,672
155.00	29,903	14,672	111,344
155.50	31,034	15,234	126,578
156.00	32,184	15,805	142,383
156.50	33,348	16,383	158,766
157.00	34,530	16,970	175,735
157.50	35,731	17,565	193,300
158.00	36,958	18,172	211,473

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.50' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 45P: Basin 2A Infiltration



Summary for Pond 46P: Basin 1B Infiltration

[79] Warning: Submerged Pond 43P Primary device # 2 OUTLET by 1.13'

Inflow Area = 156,153 sf, 89.68% Impervious, Inflow Depth = 7.88" for 100-year_projected event
Inflow = 18.11 cfs @ 12.09 hrs, Volume= 102,605 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 153.13' @ 65.78 hrs Surf.Area= 24,427 sf Storage= 102,604 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

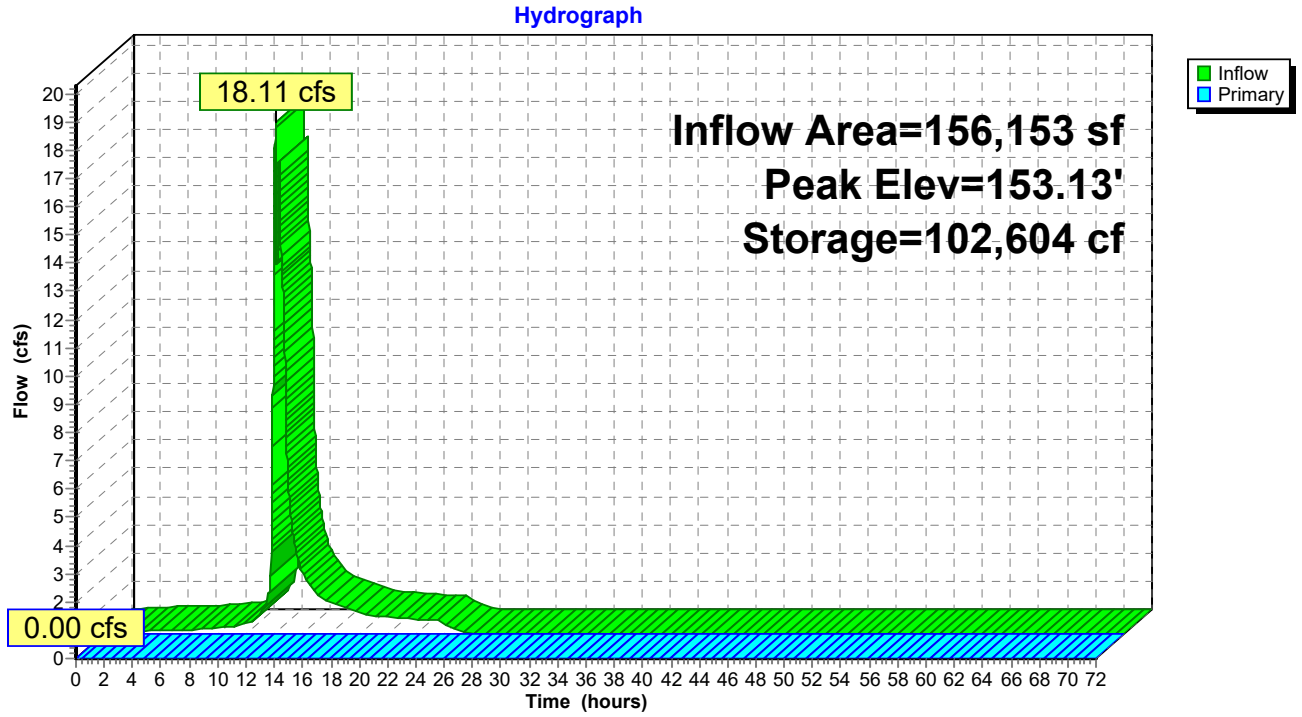
Volume	Invert	Avail.Storage	Storage Description
#1	147.98'	135,038 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.98	15,656	0	0
148.40	16,310	6,713	6,713
148.90	17,103	8,353	15,066
149.40	17,911	8,754	23,820
149.90	18,735	9,162	32,981
150.40	19,574	9,577	42,558
150.90	20,428	10,001	52,559
151.40	21,297	10,431	62,990
151.90	22,181	10,870	73,860
152.40	23,080	11,315	85,175
152.90	23,993	11,768	96,943
153.40	24,920	12,228	109,171
153.90	25,863	12,696	121,867
154.40	26,819	13,171	135,038

Device	Routing	Invert	Outlet Devices
#1	Primary	153.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.98' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 46P: Basin 1B Infiltration



Summary for Pond 48P: Basin 1A Infiltration Basin

[79] Warning: Submerged Pond 15P Primary device # 2 INLET by 0.36'

Inflow Area = 562,771 sf, 15.53% Impervious, Inflow Depth = 3.93" for 100-year_projected event
Inflow = 18.23 cfs @ 12.70 hrs, Volume= 184,535 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 156.36' @ 72.00 hrs Surf.Area= 36,651 sf Storage= 184,534 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

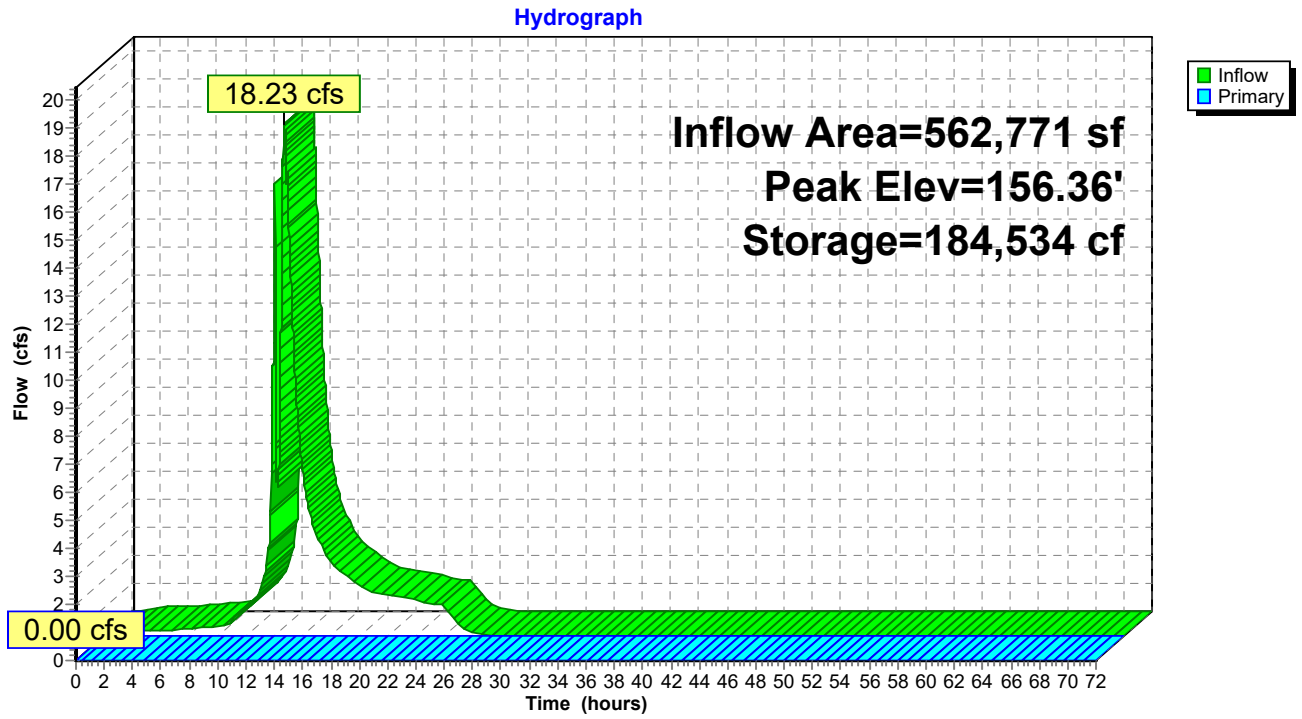
Volume	Invert	Avail.Storage	Storage Description
#1	150.00'	298,930 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.00	21,799	0	0
150.20	22,236	4,403	4,403
150.70	23,295	11,383	15,786
151.20	24,380	11,919	27,705
151.70	25,491	12,468	40,173
152.20	26,624	13,029	53,201
152.70	27,774	13,600	66,801
153.20	28,940	14,179	80,979
153.70	30,120	14,765	95,744
154.20	31,316	15,359	111,103
154.70	32,526	15,961	127,064
155.20	33,749	16,569	143,633
155.70	34,987	17,184	160,817
156.20	36,240	17,807	178,623
156.70	37,506	18,437	197,060
157.20	38,786	19,073	216,133
157.70	40,081	19,717	235,850
158.20	41,390	20,368	256,217
158.70	42,718	21,027	277,244
159.20	44,026	21,686	298,930

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 48P: Basin 1A Infiltration Basin



Summary for Pond 51P: Basin 4 Bioretention

[79] Warning: Submerged Pond 39P Primary device # 1 INLET by 2.07'

Inflow Area = 148,627 sf, 52.11% Impervious, Inflow Depth = 6.76" for 100-year_projected event
Inflow = 13.38 cfs @ 12.39 hrs, Volume= 83,742 cf
Outflow = 13.29 cfs @ 12.44 hrs, Volume= 69,219 cf, Atten= 1%, Lag= 2.9 min
Primary = 13.29 cfs @ 12.44 hrs, Volume= 69,219 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.07' @ 12.44 hrs Surf.Area= 6,462 sf Storage= 18,116 cf

Plug-Flow detention time= 124.4 min calculated for 69,210 cf (83% of inflow)
Center-of-Mass det. time= 46.7 min (882.4 - 835.7)

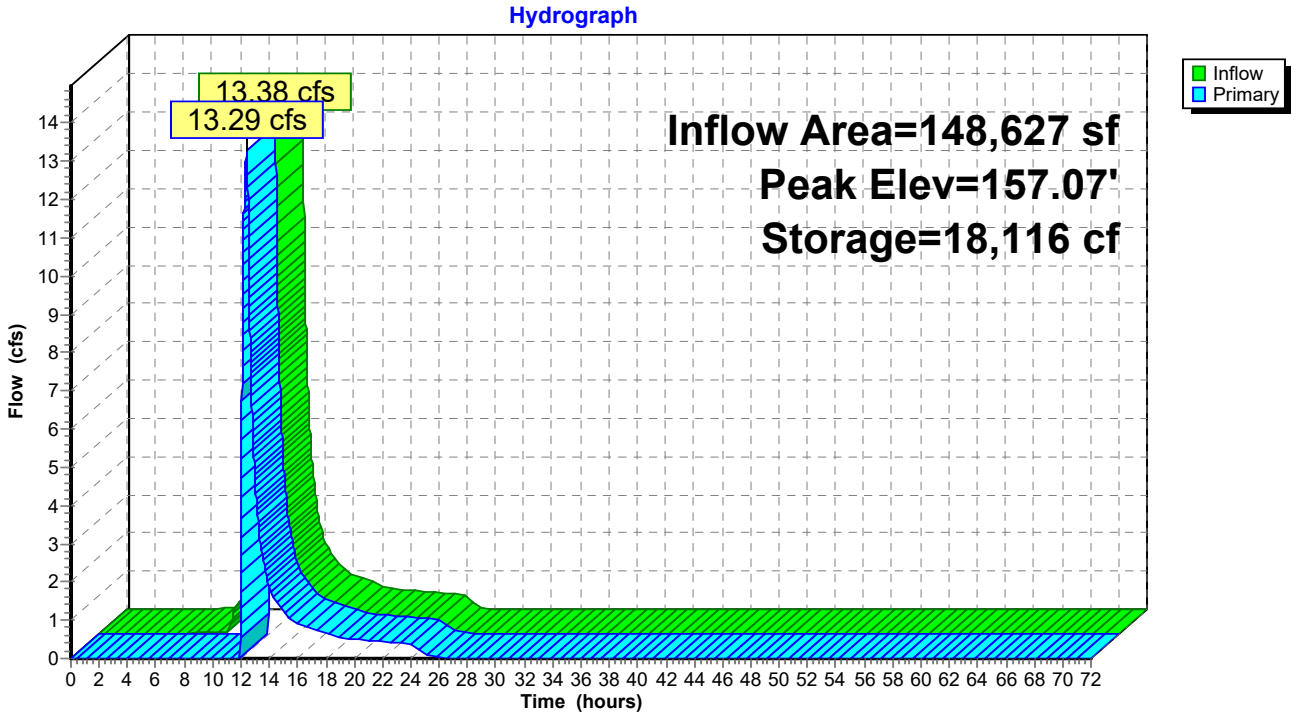
Volume	Invert	Avail.Storage	Storage Description
#1	153.00'	36,070 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.00	2,922	0	0
153.90	3,287	2,794	2,794
154.40	3,735	1,756	4,550
154.90	4,199	1,984	6,533
155.40	4,678	2,219	8,752
155.90	5,172	2,463	11,215
156.40	5,682	2,714	13,928
156.50	6,207	594	14,523
156.90	6,314	2,504	17,027
157.40	6,748	3,266	20,292
157.90	7,305	3,513	23,806
158.40	7,877	3,796	27,601
158.90	8,465	4,086	31,687
159.40	9,068	4,383	36,070

Device	Routing	Invert	Outlet Devices
#1	Device 2	156.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	153.00'	**24.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 153.00' / 152.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=13.27 cfs @ 12.44 hrs HW=157.07' (Free Discharge)
↑**2=Culvert** (Passes 13.27 cfs of 20.93 cfs potential flow)
↑**1=Orifice/Grate** (Weir Controls 13.27 cfs @ 2.47 fps)

Pond 51P: Basin 4 Bioretention



Summary for Pond 52P: Basin 4 Infiltration

[81] Warning: Exceeded Pond 51P by 2.24' @ 68.84 hrs

Inflow Area = 180,774 sf, 56.17% Impervious, Inflow Depth = 6.28" for 100-year_projected event
Inflow = 15.00 cfs @ 12.44 hrs, Volume= 94,603 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.74' @ 66.93 hrs Surf.Area= 21,720 sf Storage= 94,602 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

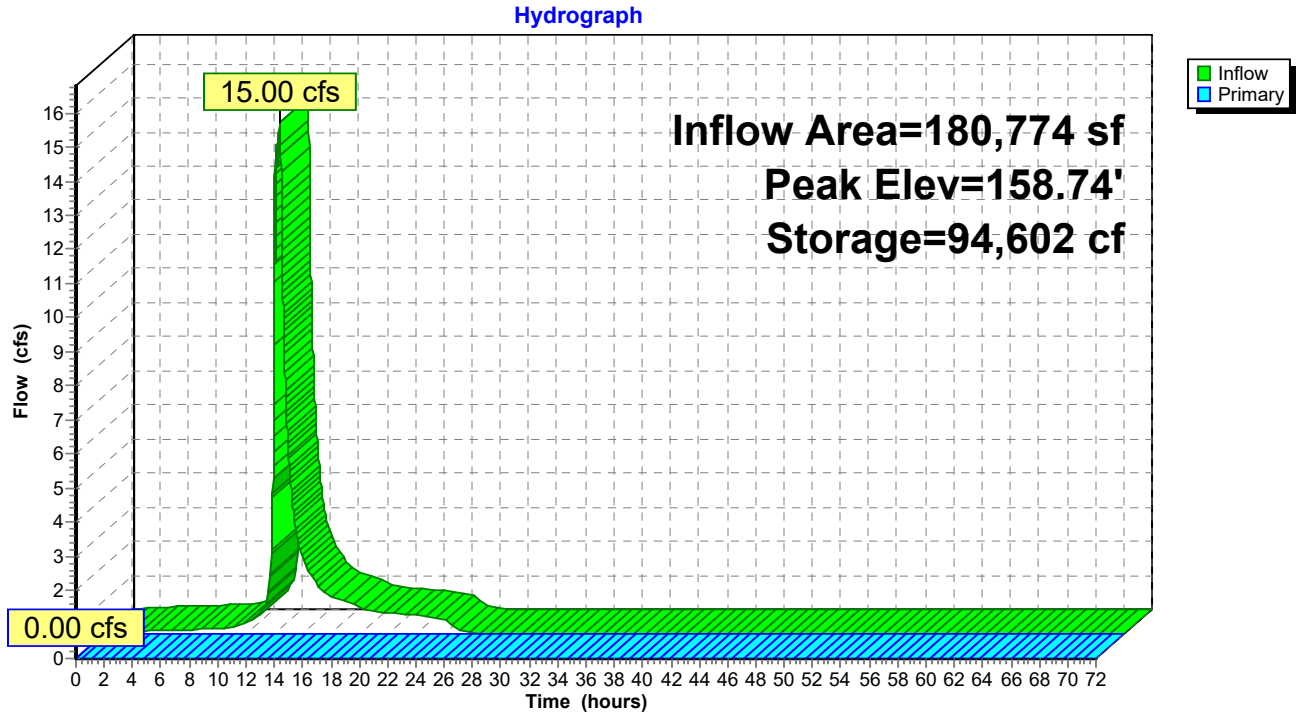
Volume	Invert	Avail.Storage	Storage Description
#1	152.40'	98,072 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
152.40	8,570	0	0
152.90	9,506	4,519	4,519
153.40	10,459	4,991	9,510
153.90	11,430	5,472	14,983
154.40	12,419	5,962	20,945
154.90	13,426	6,461	27,406
155.40	14,449	6,969	34,375
155.90	15,490	7,485	41,860
156.40	16,547	8,009	49,869
156.90	17,620	8,542	58,411
157.40	18,711	9,083	67,493
157.90	19,818	9,632	77,126
158.40	20,943	10,190	87,316
158.90	22,081	10,756	98,072

Device	Routing	Invert	Outlet Devices
#1	Primary	158.80'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.40' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 52P: Basin 4 Infiltration



Summary for Pond 60P: Basin 3 Bioretention

[81] Warning: Exceeded Pond 38P by 1.32' @ 12.81 hrs

Inflow Area = 110,642 sf, 4.41% Impervious, Inflow Depth = 5.71" for 100-year_projected event
Inflow = 8.82 cfs @ 12.40 hrs, Volume= 52,678 cf
Outflow = 5.18 cfs @ 12.75 hrs, Volume= 35,698 cf, Atten= 41%, Lag= 21.1 min
Primary = 5.18 cfs @ 12.75 hrs, Volume= 35,698 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 147.09' @ 12.75 hrs Surf.Area= 6,894 sf Storage= 20,911 cf

Plug-Flow detention time= 193.2 min calculated for 35,698 cf (68% of inflow)
Center-of-Mass det. time= 81.5 min (942.9 - 861.4)

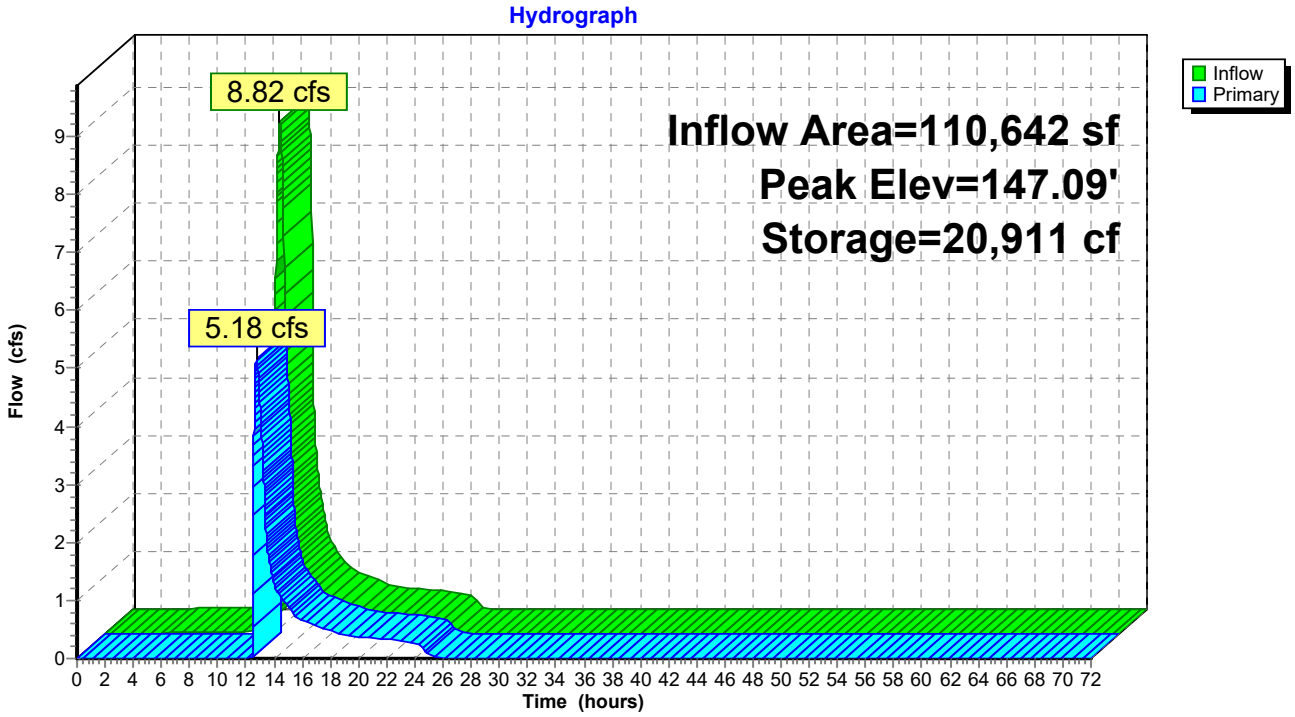
Volume	Invert	Avail.Storage	Storage Description
#1	143.00'	27,552 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.00	3,477	0	0
143.50	3,844	1,830	1,830
144.00	4,224	2,017	3,847
144.50	4,619	2,211	6,058
145.00	5,028	2,412	8,470
145.50	5,450	2,620	11,089
146.00	5,887	2,834	13,924
146.50	6,339	3,057	16,980
147.00	6,804	3,286	20,266
147.50	7,283	3,522	23,788
148.00	7,776	3,765	27,552

Device	Routing	Invert	Outlet Devices
#1	Primary	146.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Device 1	143.00'	**18.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 143.00' / 142.00' S= 0.0227 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=5.18 cfs @ 12.75 hrs HW=147.09' (Free Discharge)
↑**1=Orifice/Grate** (Passes 5.18 cfs of 14.11 cfs potential flow)
↑**2=Culvert** (Inlet Controls 5.18 cfs @ 2.93 fps)

Pond 60P: Basin 3 Bioretention



Summary for Pond 61P: Basin 3 Infiltration

Inflow Area = 126,803 sf, 16.59% Impervious, Inflow Depth = 4.80" for 100-year_projected event
Inflow = 5.65 cfs @ 12.75 hrs, Volume= 50,747 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 145.83' @ 37.47 hrs Surf.Area= 15,956 sf Storage= 50,746 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

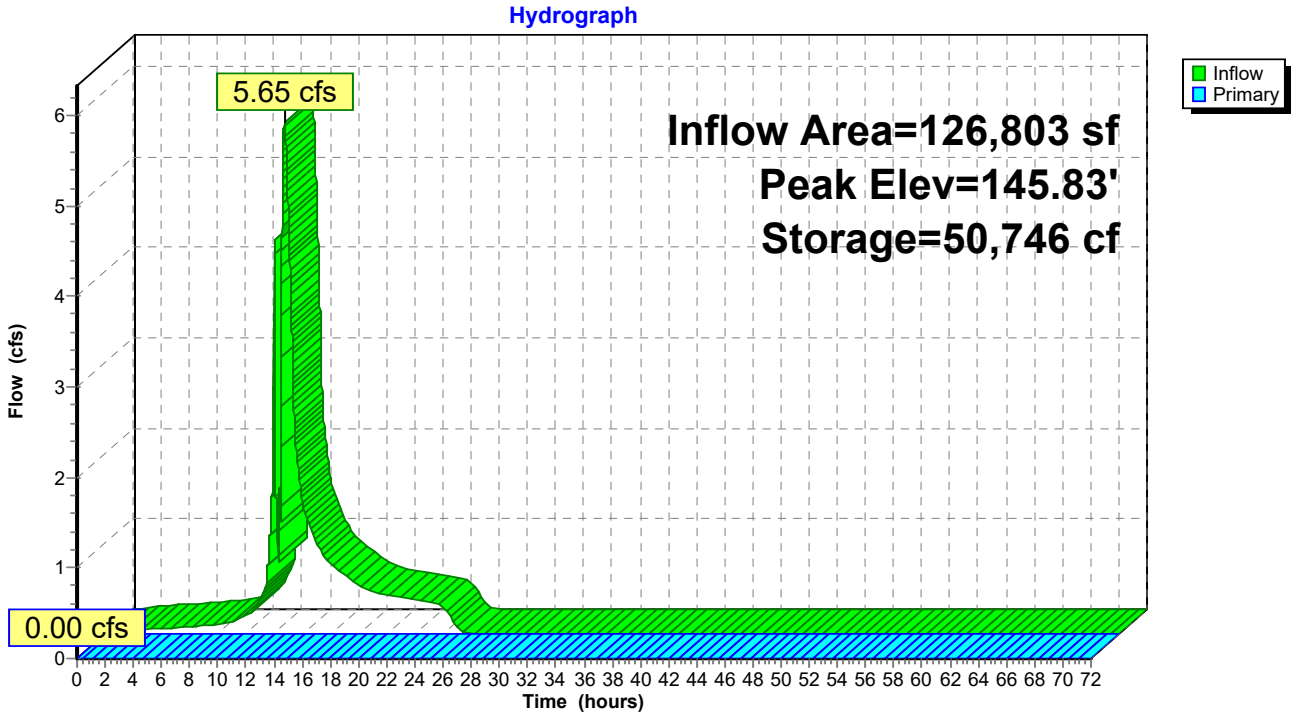
Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	66,946 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
142.00	10,684	0	0
142.30	11,069	3,263	3,263
142.80	11,719	5,697	8,960
143.30	12,382	6,025	14,985
143.80	13,060	6,361	21,346
144.30	13,752	6,703	28,049
144.80	14,458	7,053	35,101
145.30	15,177	7,409	42,510
145.80	15,912	7,772	50,282
146.30	16,660	8,143	58,425
146.80	17,422	8,521	66,946

Device	Routing	Invert	Outlet Devices
#1	Primary	146.30'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 61P: Basin 3 Infiltration



Summary for Pond 65P: Basin 2B Forebay

Inflow Area = 383,157 sf, 7.33% Impervious, Inflow Depth = 3.33" for 100-year_projected event
Inflow = 15.14 cfs @ 12.60 hrs, Volume= 106,367 cf
Outflow = 15.07 cfs @ 12.63 hrs, Volume= 102,304 cf, Atten= 0%, Lag= 1.5 min
Primary = 15.07 cfs @ 12.63 hrs, Volume= 102,304 cf
Routed to Pond 66P : Basin 2B Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 159.12' @ 12.63 hrs Surf.Area= 2,825 sf Storage= 5,681 cf

Plug-Flow detention time= 43.8 min calculated for 102,290 cf (96% of inflow)
Center-of-Mass det. time= 21.8 min (918.1 - 896.2)

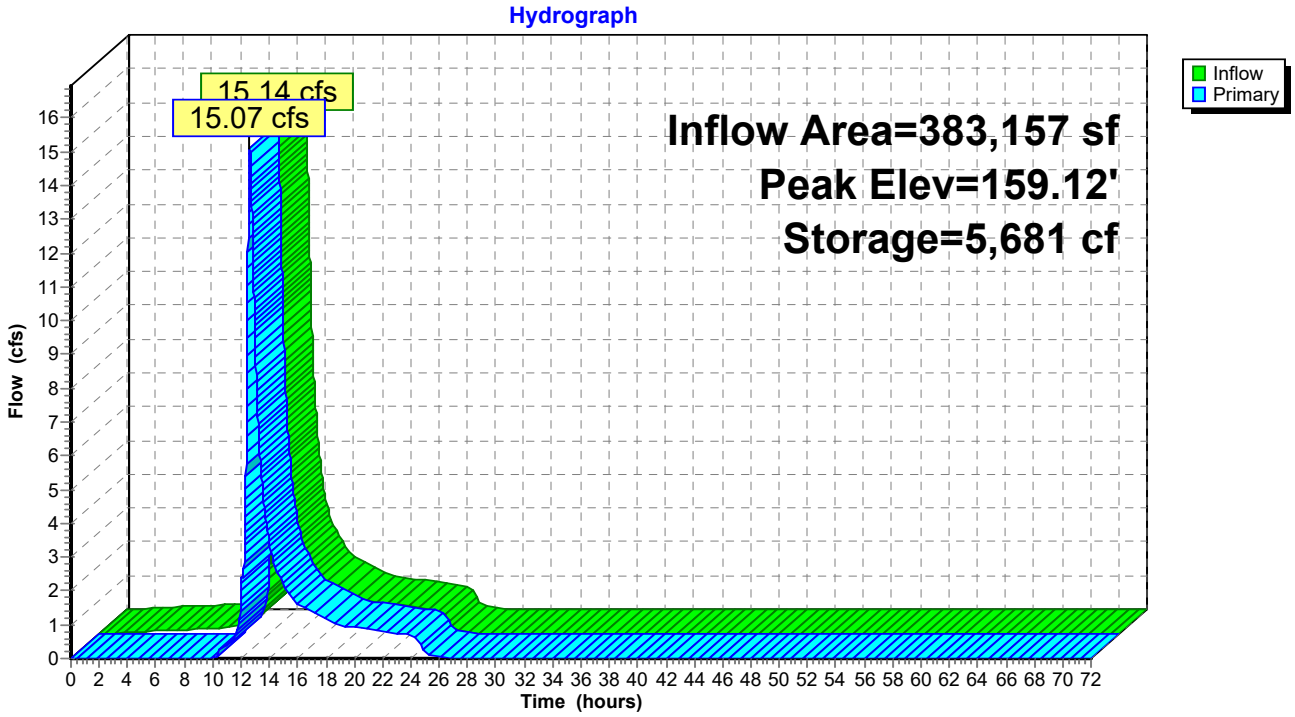
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	8,105 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	928	0	0
156.40	1,136	413	413
156.90	1,406	636	1,048
157.40	1,694	775	1,823
157.90	2,000	924	2,747
158.40	2,324	1,081	3,828
158.50	2,391	236	4,064
158.90	2,666	1,011	5,075
159.40	3,026	1,423	6,498
159.90	3,404	1,608	8,105

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf
#3	Primary	159.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=15.07 cfs @ 12.63 hrs HW=159.12' (Free Discharge)
- **2=Culvert** (Passes 15.07 cfs of 17.39 cfs potential flow)
  - **1=Orifice/Grate** (Weir Controls 15.07 cfs @ 2.58 fps)
- **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 65P: Basin 2B Forebay



Summary for Pond 66P: Basin 2B Infiltration Basin

Inflow Area = 435,255 sf, 18.42% Impervious, Inflow Depth = 4.13" for 100-year_projected event
Inflow = 16.74 cfs @ 12.63 hrs, Volume= 149,751 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.98' @ 72.00 hrs Surf.Area= 43,131 sf Storage= 149,750 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

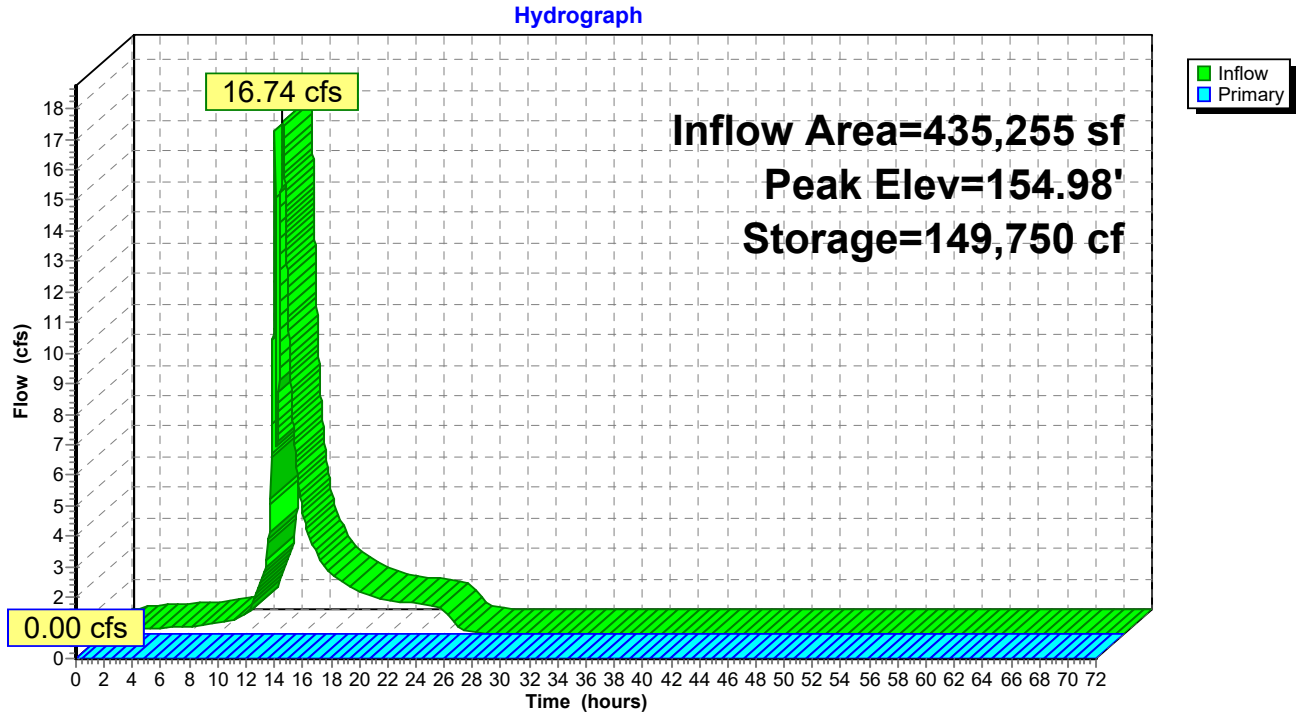
Volume	Invert	Avail.Storage	Storage Description
#1	151.00'	213,861 cf	**Basin 2B Infiltration Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
151.00	32,211	0	0
151.40	33,314	13,105	13,105
151.90	34,642	16,989	30,094
152.40	35,983	17,656	47,750
152.90	37,338	18,330	66,081
153.40	38,708	19,012	85,092
153.90	40,091	19,700	104,792
154.40	41,489	20,395	125,187
154.90	42,901	21,098	146,284
155.40	44,326	21,807	168,091
155.90	45,767	22,523	190,614
156.40	47,221	23,247	213,861

Device	Routing	Invert	Outlet Devices
#1	Primary	155.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=151.00' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 66P: Basin 2B Infiltration Basin



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 23S: Basin 1B Runoff Area=2.391 ac 91.22% Impervious Runoff Depth=0.94"
Flow Length=373' Tc=3.0 min CN=WQ Runoff=6.69 cfs 8,191 cf

Subcatchment 24S: Basin 2A West Runoff Area=1.263 ac 69.91% Impervious Runoff Depth=0.72"
Flow Length=246' Tc=2.1 min CN=WQ Runoff=2.71 cfs 3,316 cf

Subcatchment 25S: Basin 2A East Runoff Area=1.175 ac 71.06% Impervious Runoff Depth=0.74"
Flow Length=370' Tc=3.3 min CN=WQ Runoff=2.55 cfs 3,136 cf

Subcatchment 29S: Basin 2B West Runoff Area=4.192 ac 6.25% Impervious Runoff Depth=0.06"
Flow Length=525' Slope=0.0307 '/' Tc=16.5 min CN=WQ Runoff=0.56 cfs 984 cf

Subcatchment 30S: Basin 1A Central Runoff Area=5.749 ac 6.24% Impervious Runoff Depth=0.06"
Flow Length=512' Tc=16.8 min CN=WQ Runoff=0.76 cfs 1,348 cf

Subcatchment 31S: Basin 2B East Runoff Area=195,980 sf 6.17% Impervious Runoff Depth=0.06"
Flow Length=489' Slope=0.0301 '/' Tc=16.1 min CN=WQ Runoff=0.60 cfs 1,042 cf

Subcatchment 32S: undeveloped run on to Runoff Area=3,384 sf 0.00% Impervious Runoff Depth=0.00"
Tc=0.0 min CN=55 Runoff=0.00 cfs 0 cf

Subcatchment 33S: undeveloped run on to Runoff Area=3,576 sf 0.00% Impervious Runoff Depth=0.00"
Tc=0.0 min CN=55 Runoff=0.00 cfs 0 cf

Subcatchment 37S: Basin 3 Runoff Area=2.428 ac 0.00% Impervious Runoff Depth=0.04"
Flow Length=359' Tc=14.3 min CN=WQ Runoff=0.12 cfs 317 cf

Subcatchment 39S: Basin 1A East Runoff Area=182,579 sf 6.17% Impervious Runoff Depth=0.06"
Flow Length=413' Tc=15.2 min CN=WQ Runoff=0.57 cfs 971 cf

Subcatchment 40S: Basin 1A West Runoff Area=1.696 ac 6.25% Impervious Runoff Depth=0.06"
Flow Length=256' Slope=0.0267 '/' Tc=13.7 min CN=WQ Runoff=0.25 cfs 398 cf

Subcatchment 41S: Basin 4 East Runoff Area=0.868 ac 57.37% Impervious Runoff Depth=0.59"
Flow Length=329' Tc=3.1 min CN=WQ Runoff=1.53 cfs 1,870 cf

Subcatchment 42S: Basin 4 West Runoff Area=1.605 ac 65.73% Impervious Runoff Depth=0.68"
Flow Length=255' Slope=0.0284 '/' Tc=1.7 min CN=WQ Runoff=3.25 cfs 3,962 cf

Subcatchment 46S: Direct Rainfall Basin Runoff Area=0.311 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.96 cfs 1,168 cf

Subcatchment 47S: Direct Rainfall Basin Runoff Area=1.128 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=3.49 cfs 4,236 cf

Subcatchment 48S: Direct Rainfall Basin Runoff Area=0.191 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.59 cfs 717 cf

Subcatchment 49S: Direct Rainfall Basin Runoff Area=1.208 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=3.74 cfs 4,537 cf

Subcatchment 50S: Direct Rainfall Basin Runoff Area=0.690 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=2.14 cfs 2,591 cf

Subcatchment 52S: Direct Rainfall Basin Runoff Area=0.075 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.23 cfs 282 cf

Subcatchment 54S: Direct Rainfall Basin Runoff Area=8,189 sf 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.58 cfs 706 cf

Subcatchment 55S: Direct Rainfall Basin 3 Runoff Area=0.023 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.07 cfs 86 cf

Subcatchment 56S: Direct Rainfall Basin Runoff Area=0.153 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.47 cfs 575 cf

Subcatchment 57S: Direct Rainfall Basin 4 Runoff Area=0.119 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.37 cfs 447 cf

Subcatchment 58S: Direct forest Runoff Area=0.714 ac 0.00% Impervious Runoff Depth=0.00"
Flow Length=234' Tc=38.0 min CN=55 Runoff=0.00 cfs 0 cf

Subcatchment 59S: Direct Rainfall Basin 4 Runoff Area=0.553 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=1.71 cfs 2,077 cf

Subcatchment 62S: Direct Rainfall Basin 3 Runoff Area=0.371 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=1.15 cfs 1,393 cf

Subcatchment 65S: Direct Rainfall Basin 3 Runoff Area=0.089 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.28 cfs 334 cf

Subcatchment 69S: Direct Rainfall Basin Runoff Area=0.105 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.33 cfs 394 cf

Subcatchment 70S: Direct Rainfall Basin Runoff Area=1.196 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=3.70 cfs 4,492 cf

Subcatchment 71S: Direct Rainfall to Runoff Area=0.106 ac 100.00% Impervious Runoff Depth=1.03"
Tc=0.0 min CN=98 Runoff=0.33 cfs 398 cf

Subcatchment 74S: Direct forest runoff to Runoff Area=0.185 ac 0.00% Impervious Runoff Depth=0.00"
Flow Length=152' Tc=29.5 min CN=55 Runoff=0.00 cfs 0 cf

Reach 29R: DA1A East Swale Avg. Flow Depth=0.19' Max Vel=0.33 fps Inflow=0.57 cfs 971 cf
n=0.080 L=835.0' S=0.0073 '/' Capacity=113.94 cfs Outflow=0.21 cfs 971 cf

Reach 30R: DA1A West Swale Avg. Flow Depth=0.24' Max Vel=0.28 fps Inflow=0.76 cfs 1,746 cf
n=0.080 L=650.0' S=0.0038 '/' Capacity=82.67 cfs Outflow=0.31 cfs 1,746 cf

Reach 31R: DA2B East Swale Avg. Flow Depth=0.20' Max Vel=0.36 fps Inflow=0.60 cfs 1,042 cf
n=0.080 L=737.0' S=0.0083 '/' Capacity=121.27 cfs Outflow=0.26 cfs 1,042 cf

Reach 33R: DA2B West Swale Avg. Flow Depth=0.24' Max Vel=0.29 fps Inflow=0.56 cfs 984 cf
n=0.080 L=384.0' S=0.0039 '/' Capacity=83.31 cfs Outflow=0.31 cfs 984 cf

Reach 34R: DA4 West Swale Avg. Flow Depth=0.49' Max Vel=0.47 fps Inflow=3.25 cfs 3,962 cf
n=0.080 L=357.0' S=0.0042 '/' Capacity=86.41 cfs Outflow=2.05 cfs 3,962 cf

Reach 35R: DA2A West Swale Avg. Flow Depth=0.41' Max Vel=0.48 fps Inflow=2.71 cfs 3,316 cf
n=0.080 L=478.0' S=0.0056 '/' Capacity=100.19 cfs Outflow=1.47 cfs 3,316 cf

Reach 36R: DA2A East Swale Avg. Flow Depth=0.40' Max Vel=0.83 fps Inflow=2.55 cfs 3,136 cf
n=0.080 L=146.0' S=0.0171 '/' Capacity=174.43 cfs Outflow=2.44 cfs 3,136 cf

Reach 37R: DA1B Swale Avg. Flow Depth=0.64' Max Vel=0.63 fps Inflow=6.69 cfs 8,191 cf
n=0.080 L=383.0' S=0.0052 '/' Capacity=96.33 cfs Outflow=4.62 cfs 8,191 cf

Reach 38R: DA3 Swale Avg. Flow Depth=0.19' Max Vel=0.97 fps Inflow=0.12 cfs 317 cf
n=0.049 L=418.0' S=0.0251 '/' Capacity=55.69 cfs Outflow=0.11 cfs 317 cf

Reach 39R: DA 1A Central Swale A Avg. Flow Depth=0.15' Max Vel=0.24 fps Inflow=0.25 cfs 398 cf
n=0.080 L=498.0' S=0.0050 '/' Capacity=94.45 cfs Outflow=0.10 cfs 398 cf

Reach 41R: DA 1A Central Swale B Avg. Flow Depth=0.21' Max Vel=0.72 fps Inflow=0.10 cfs 398 cf
n=0.080 L=188.0' S=0.0319 '/' Capacity=38.45 cfs Outflow=0.10 cfs 398 cf

Reach 42R: DA4 East Swale Avg. Flow Depth=0.35' Max Vel=0.66 fps Inflow=1.53 cfs 1,870 cf
n=0.080 L=114.0' S=0.0132 '/' Capacity=152.91 cfs Outflow=1.47 cfs 1,870 cf

Reach 43R: DA4 Roadside swale Avg. Flow Depth=0.29' Max Vel=1.79 fps Inflow=2.05 cfs 3,962 cf
n=0.049 L=103.0' S=0.0243 '/' Capacity=73.85 cfs Outflow=2.03 cfs 3,962 cf

Reach 44R: DA4 Culvert Inflow=2.03 cfs 3,962 cf
Outflow=2.03 cfs 3,962 cf

Reach 45R: DA2B Road Swale Avg. Flow Depth=0.00' Max Vel=0.00 fps
n=0.080 L=296.0' S=0.0287 '/' Capacity=36.47 cfs Outflow=0.00 cfs 0 cf

Pond 15P: Basin 1A Forebay Peak Elev=158.66' Storage=2,999 cf Inflow=0.51 cfs 2,999 cf
Outflow=0.00 cfs 0 cf

Pond 18P: Basin 1B Forebay Peak Elev=158.24' Storage=8,765 cf Inflow=4.68 cfs 8,765 cf
Primary=0.00 cfs 0 cf Secondary=0.00 cfs 0 cf Outflow=0.00 cfs 0 cf

Pond 26P: Basin 2A Forebay Peak Elev=157.68' Storage=7,158 cf Inflow=2.87 cfs 7,158 cf
Primary=0.00 cfs 0 cf Secondary=0.00 cfs 0 cf Outflow=0.00 cfs 0 cf

Pond 38P: Basin 3 Forebay Peak Elev=144.13' Storage=403 cf Inflow=0.11 cfs 403 cf
Primary=0.00 cfs 0 cf Secondary=0.00 cfs 0 cf Outflow=0.00 cfs 0 cf

Pond 39P: Basin 4 Forebay Peak Elev=157.23' Storage=6,279 cf Inflow=2.46 cfs 6,279 cf
Primary=0.00 cfs 0 cf Secondary=0.00 cfs 0 cf Outflow=0.00 cfs 0 cf

Pond 43P: Basin 1B Bioretention	Peak Elev=154.15' Storage=717 cf	Inflow=0.59 cfs 717 cf Outflow=0.00 cfs 0 cf
Pond 44P: Basin 2A Bioretention	Peak Elev=154.24' Storage=1,168 cf	Inflow=0.96 cfs 1,168 cf Outflow=0.00 cfs 0 cf
Pond 45P: Basin 2A Infiltration	Peak Elev=150.77' Storage=4,226 cf	Inflow=3.49 cfs 4,236 cf Outflow=0.00 cfs 0 cf
Pond 46P: Basin 1B Infiltration	Peak Elev=148.14' Storage=2,591 cf	Inflow=2.14 cfs 2,591 cf Outflow=0.00 cfs 0 cf
Pond 48P: Basin 1A Infiltration Basin	Peak Elev=150.21' Storage=4,536 cf	Inflow=3.74 cfs 4,537 cf Outflow=0.00 cfs 0 cf
Pond 51P: Basin 4 Bioretention	Peak Elev=153.13' Storage=398 cf	Inflow=0.33 cfs 398 cf Outflow=0.00 cfs 0 cf
Pond 52P: Basin 4 Infiltration	Peak Elev=152.64' Storage=2,076 cf	Inflow=1.71 cfs 2,077 cf Outflow=0.00 cfs 0 cf
Pond 60P: Basin 3 Bioretention	Peak Elev=143.10' Storage=334 cf	Inflow=0.28 cfs 334 cf Outflow=0.00 cfs 0 cf
Pond 61P: Basin 3 Infiltration	Peak Elev=142.13' Storage=1,393 cf	Inflow=1.15 cfs 1,393 cf Outflow=0.00 cfs 0 cf
Pond 65P: Basin 2B Forebay	Peak Elev=157.73' Storage=2,420 cf	Inflow=0.52 cfs 2,420 cf Outflow=0.00 cfs 0 cf
Pond 66P: Basin 2B Infiltration Basin	Peak Elev=151.14' Storage=4,491 cf	Inflow=3.70 cfs 4,492 cf Outflow=0.00 cfs 0 cf

Total Runoff Area = 1,638,827 sf Runoff Volume = 49,968 cf Average Runoff Depth = 0.37"
64.86% Pervious = 1,062,927 sf 35.14% Impervious = 575,900 sf

Summary for Subcatchment 23S: Basin 1B

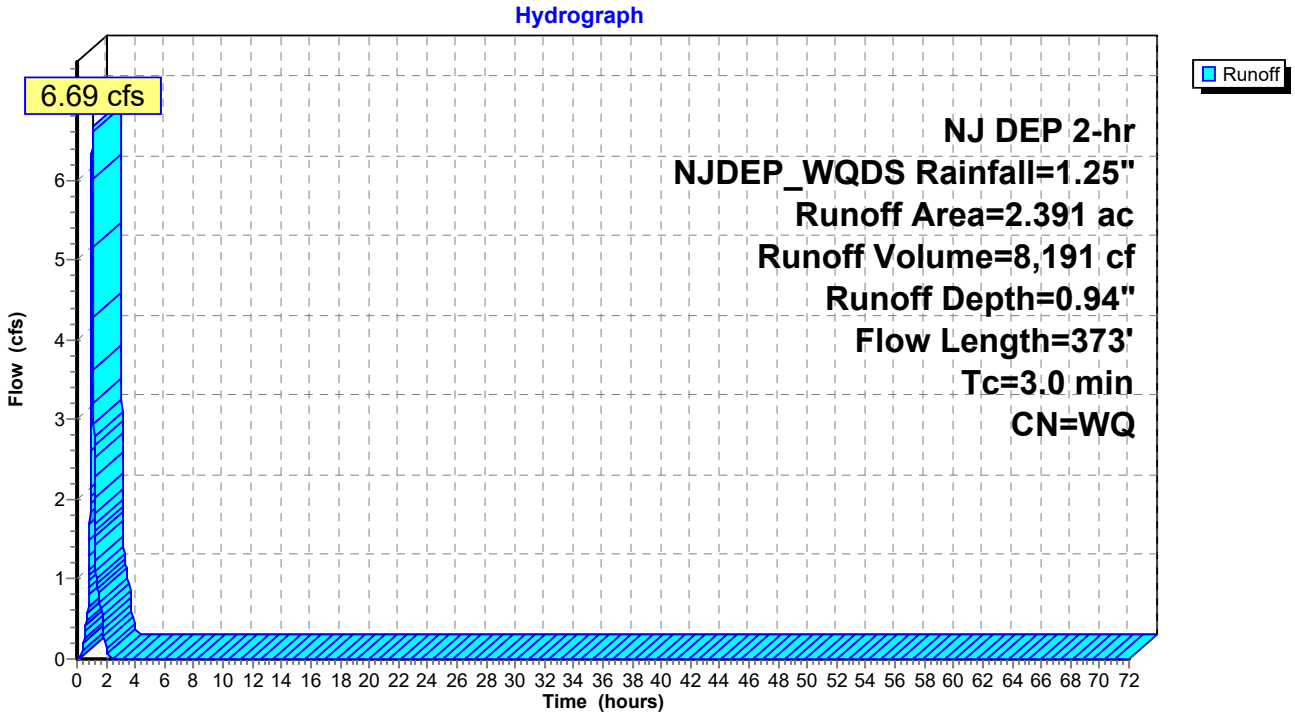
Runoff = 6.69 cfs @ 1.09 hrs, Volume= 8,191 cf, Depth= 0.94"
Routed to Reach 37R : DA1B Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
	0.210	39	>75% Grass cover, Good, HSG A
*	0.084	98	gravel road
*	2.097	98	compost/recycling area
	2.391		Weighted Average
	0.210	39	8.78% Pervious Area
	2.181	98	91.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0282	1.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
1.0	195	0.0282	3.41		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.1	78	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.0	373	Total			

Subcatchment 23S: Basin 1B



Summary for Subcatchment 24S: Basin 2A West

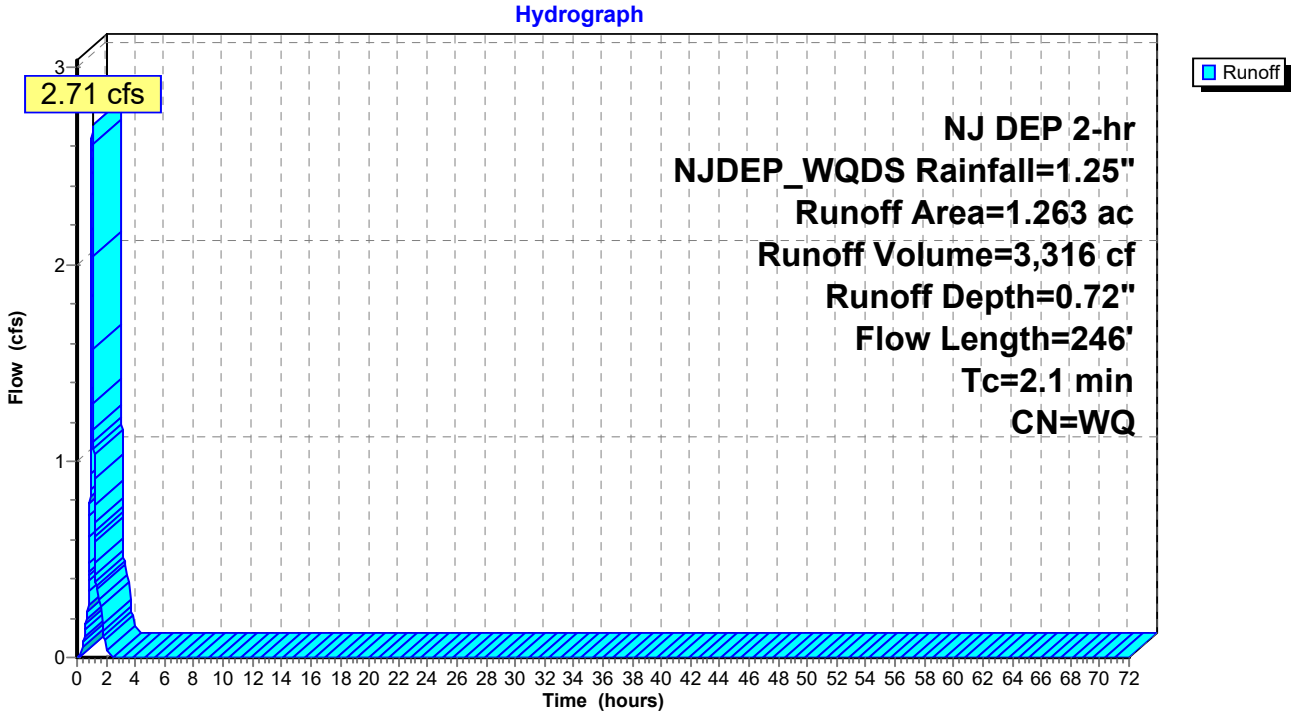
Runoff = 2.71 cfs @ 1.08 hrs, Volume= 3,316 cf, Depth= 0.72"
Routed to Reach 35R : DA2A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.380	39	grass cover
*	0.883	98	compost area
	1.263		Weighted Average
	0.380	39	30.09% Pervious Area
	0.883	98	69.91% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0303	1.82		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.4	85	0.0303	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.8	61	0.0309	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	246	Total			

Subcatchment 24S: Basin 2A West



Summary for Subcatchment 25S: Basin 2A East

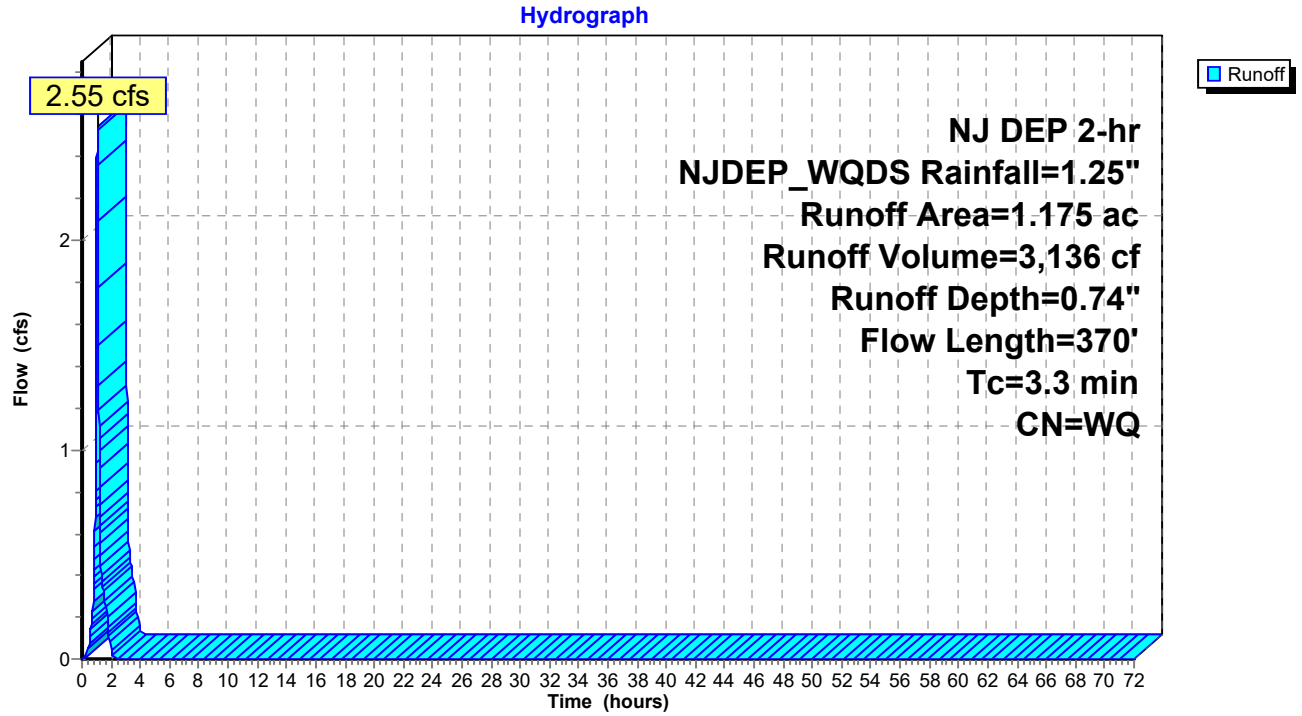
Runoff = 2.55 cfs @ 1.09 hrs, Volume= 3,136 cf, Depth= 0.74"
Routed to Reach 36R : DA2A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.223	98	gravel road
*	0.612	98	compost area
*	0.340	39	grass cover
	1.175		Weighted Average
	0.340	39	28.94% Pervious Area
	0.835	98	71.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0300	1.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.6	136	0.0302	3.53		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	134	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	370	Total			

Subcatchment 25S: Basin 2A East



Summary for Subcatchment 29S: Basin 2B West

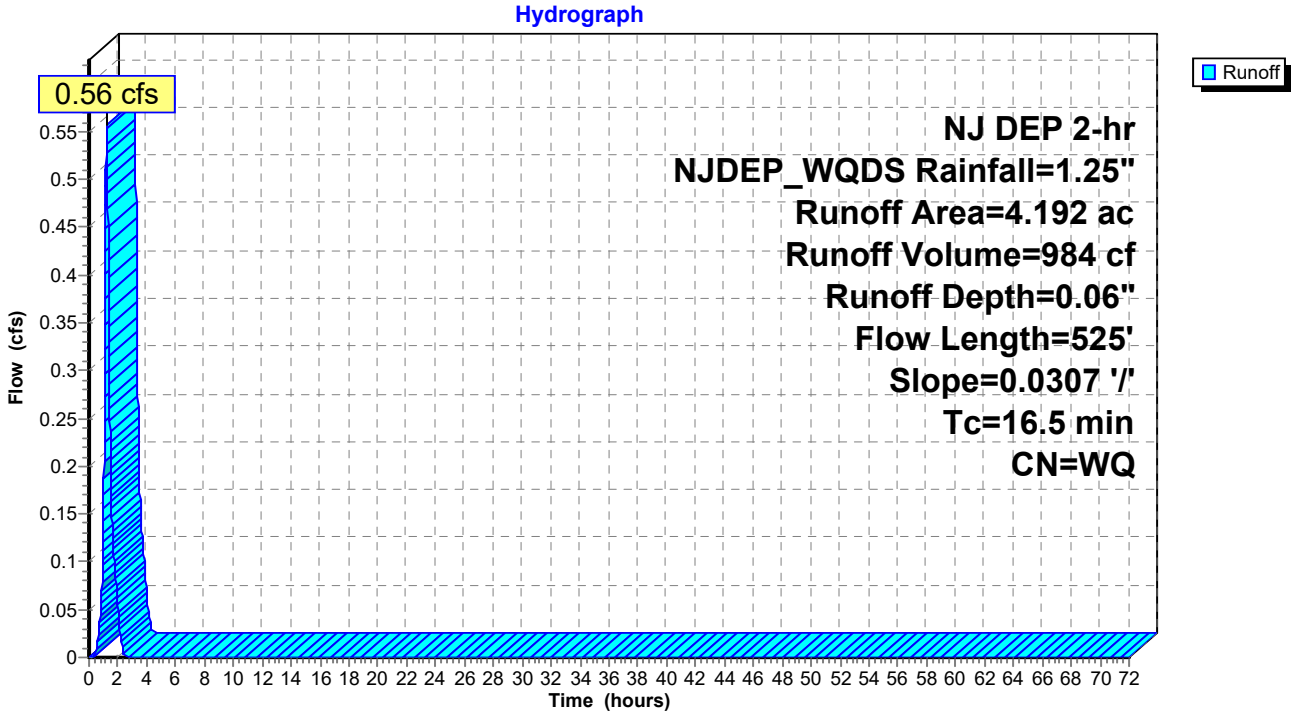
Runoff = 0.56 cfs @ 1.23 hrs, Volume= 984 cf, Depth= 0.06"
Routed to Reach 33R : DA2B West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
	3.930	39	>75% Grass cover, Good, HSG A
*	0.262	98	Solar
	4.192		Weighted Average
	3.930	39	93.75% Pervious Area
	0.262	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	100	0.0307	0.16		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.8	425	0.0307	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.5	525	Total			

Subcatchment 29S: Basin 2B West



Summary for Subcatchment 30S: Basin 1A Central

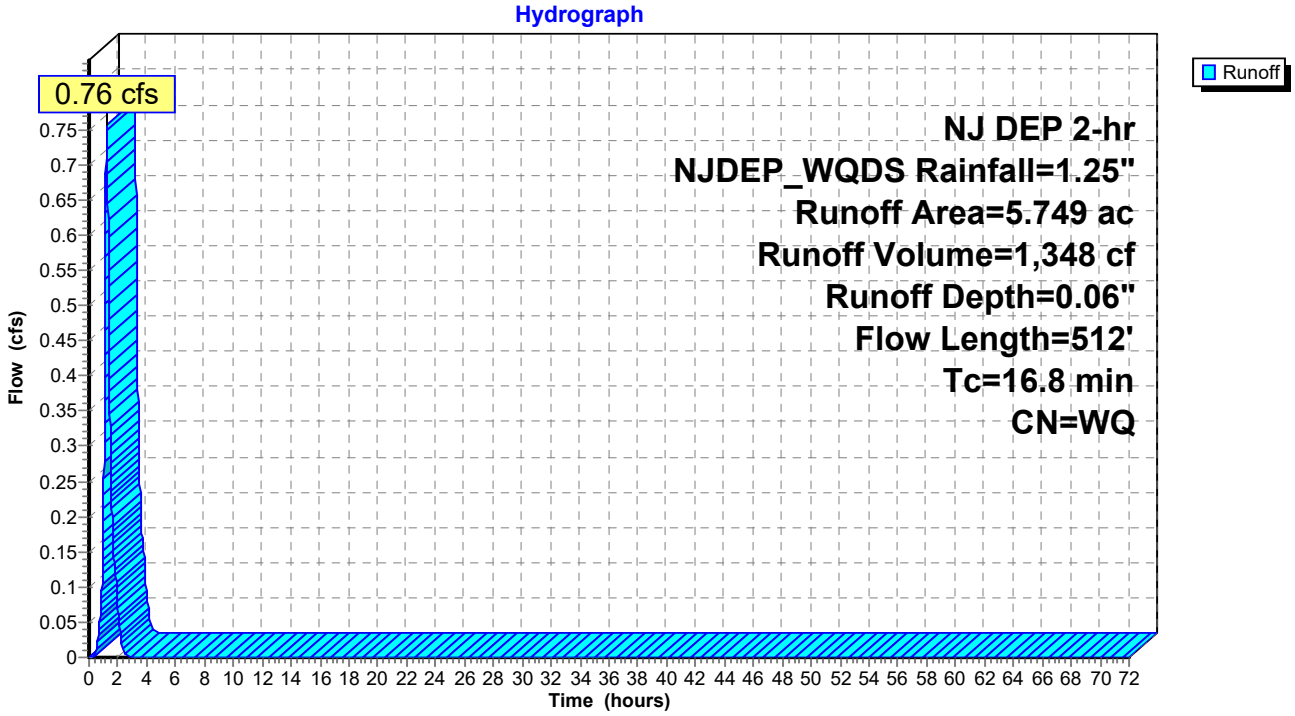
Runoff = 0.76 cfs @ 1.23 hrs, Volume= 1,348 cf, Depth= 0.06"
Routed to Reach 30R : DA1A West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.359	98	solar
*	5.390	39	grass
	5.749		Weighted Average
	5.390	39	93.76% Pervious Area
	0.359	98	6.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	100	0.0291	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.8	412	0.0290	1.19		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.8	512	Total			

Subcatchment 30S: Basin 1A Central



Summary for Subcatchment 31S: Basin 2B East

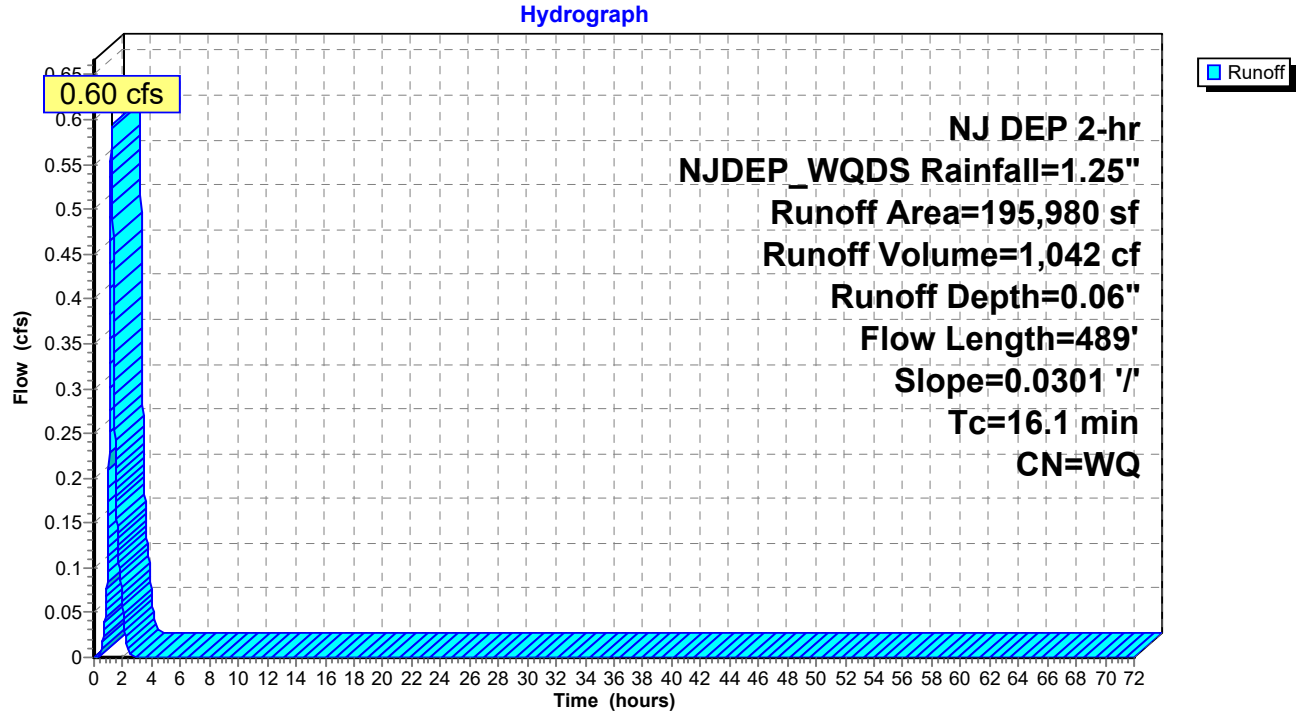
Runoff = 0.60 cfs @ 1.22 hrs, Volume= 1,042 cf, Depth= 0.06"
Routed to Reach 31R : DA2B East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
	183,896	39	>75% Grass cover, Good, HSG A
*	12,084	98	Solar
	195,980		Weighted Average
	183,896	39	93.83% Pervious Area
	12,084	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0301	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
5.3	389	0.0301	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.1	489	Total			

Subcatchment 31S: Basin 2B East



Summary for Subcatchment 32S: undeveloped run on to forebay

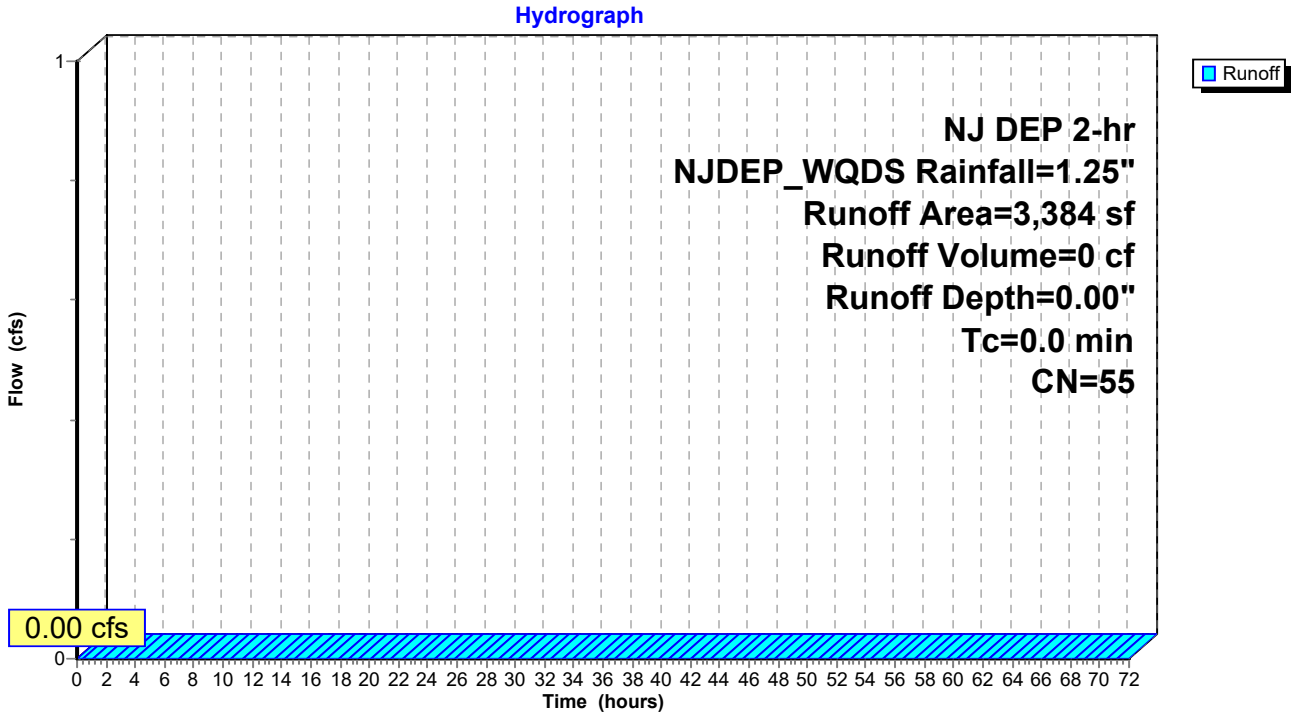
[46] Hint: Tc=0 (Instant runoff peak depends on dt)
[45] Hint: Runoff=Zero

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
*	3,384	55	
	3,384	55	100.00% Pervious Area

Subcatchment 32S: undeveloped run on to forebay



Summary for Subcatchment 33S: undeveloped run on to bioretention

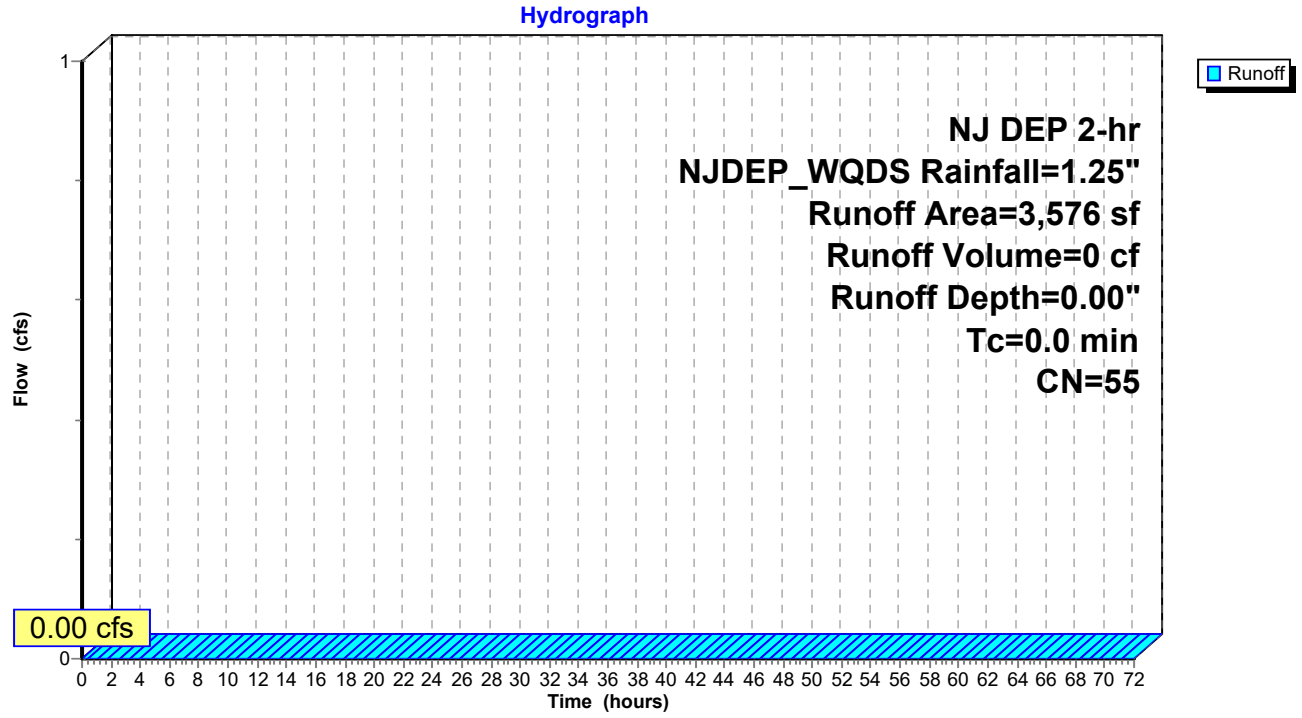
[46] Hint: Tc=0 (Instant runoff peak depends on dt)
[45] Hint: Runoff=Zero

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
*	3,576	55	
	3,576	55	100.00% Pervious Area

Subcatchment 33S: undeveloped run on to bioretention



Summary for Subcatchment 37S: Basin 3

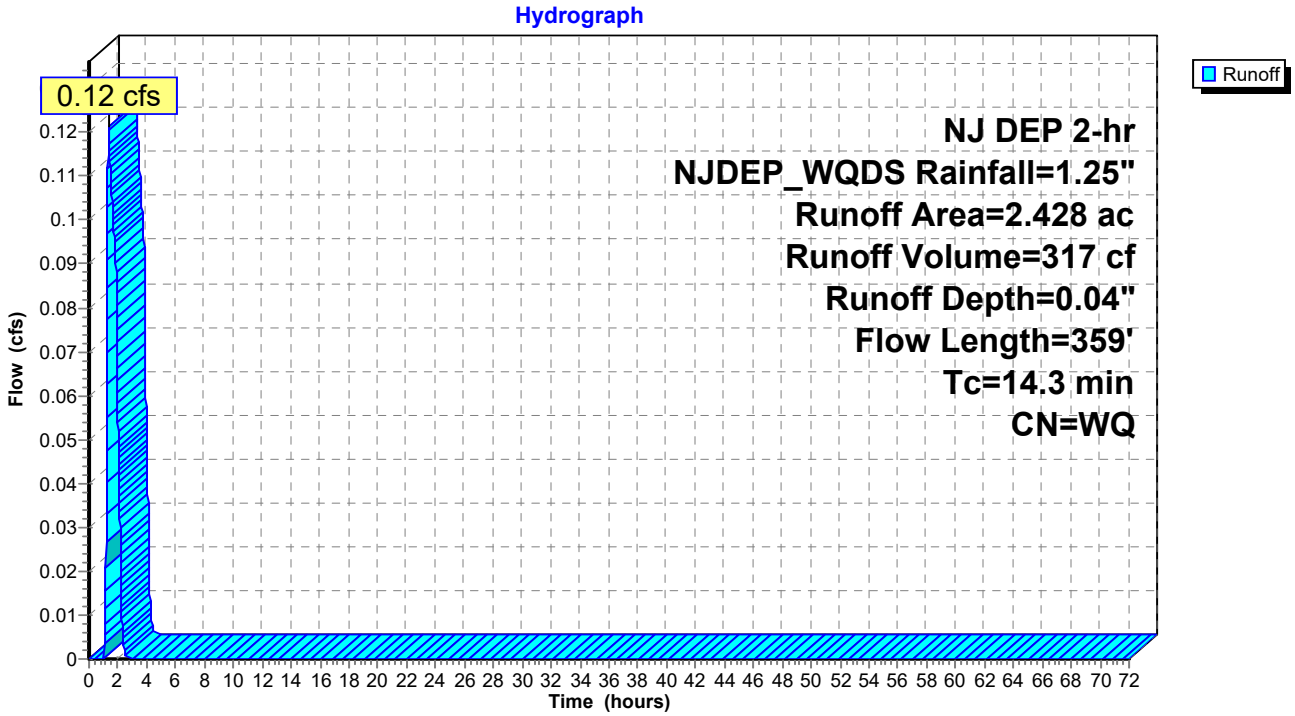
Runoff = 0.12 cfs @ 1.37 hrs, Volume= 317 cf, Depth= 0.04"
Routed to Reach 38R : DA3 Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.720	39	grass
*	1.708	72	sand
	2.428		Weighted Average
	2.428	62	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	35	0.5455	0.40		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
7.5	65	0.0321	0.14		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
3.4	107	0.0055	0.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	152	0.0066	1.31		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
14.3	359	Total			

Subcatchment 37S: Basin 3



Summary for Subcatchment 39S: Basin 1A East

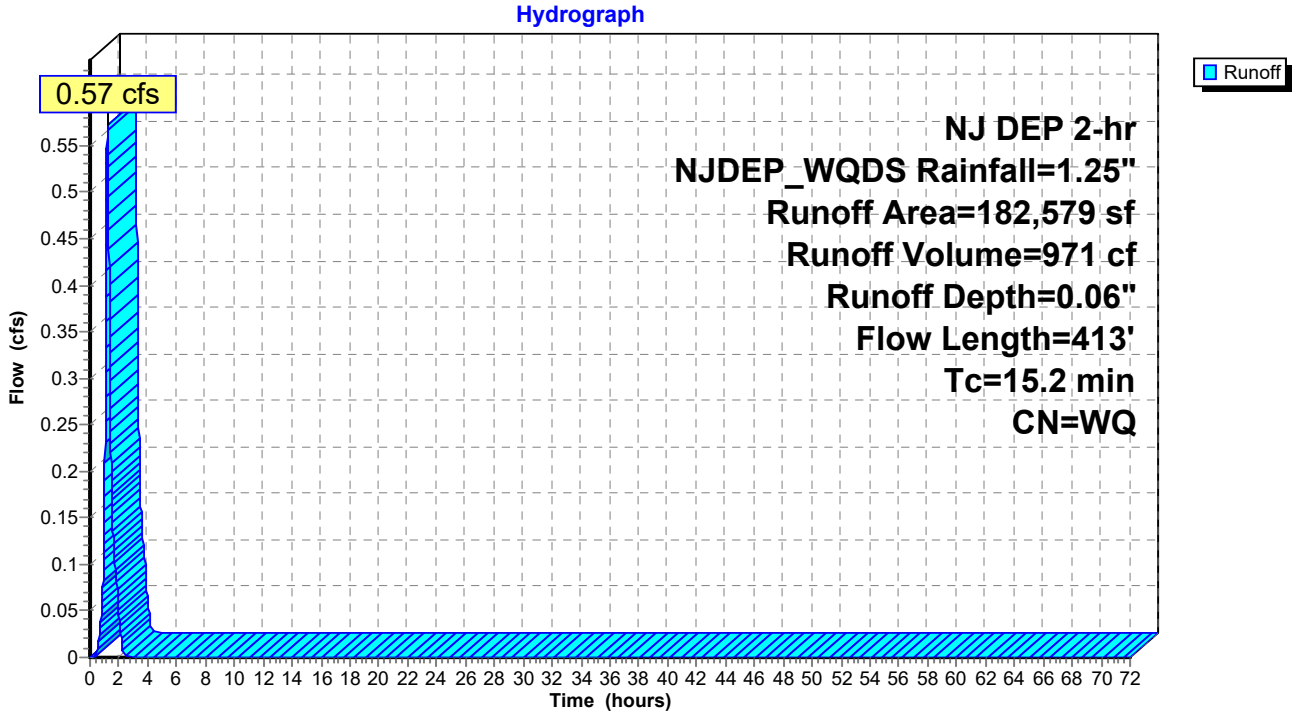
Runoff = 0.57 cfs @ 1.20 hrs, Volume= 971 cf, Depth= 0.06"
Routed to Reach 29R : DA1A East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
	171,321	39	>75% Grass cover, Good, HSG A
*	11,258	98	Solar
	182,579		Weighted Average
	171,321	39	93.83% Pervious Area
	11,258	98	6.17% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0299	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
4.3	313	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.2	413	Total			

Subcatchment 39S: Basin 1A East



Summary for Subcatchment 40S: Basin 1A West

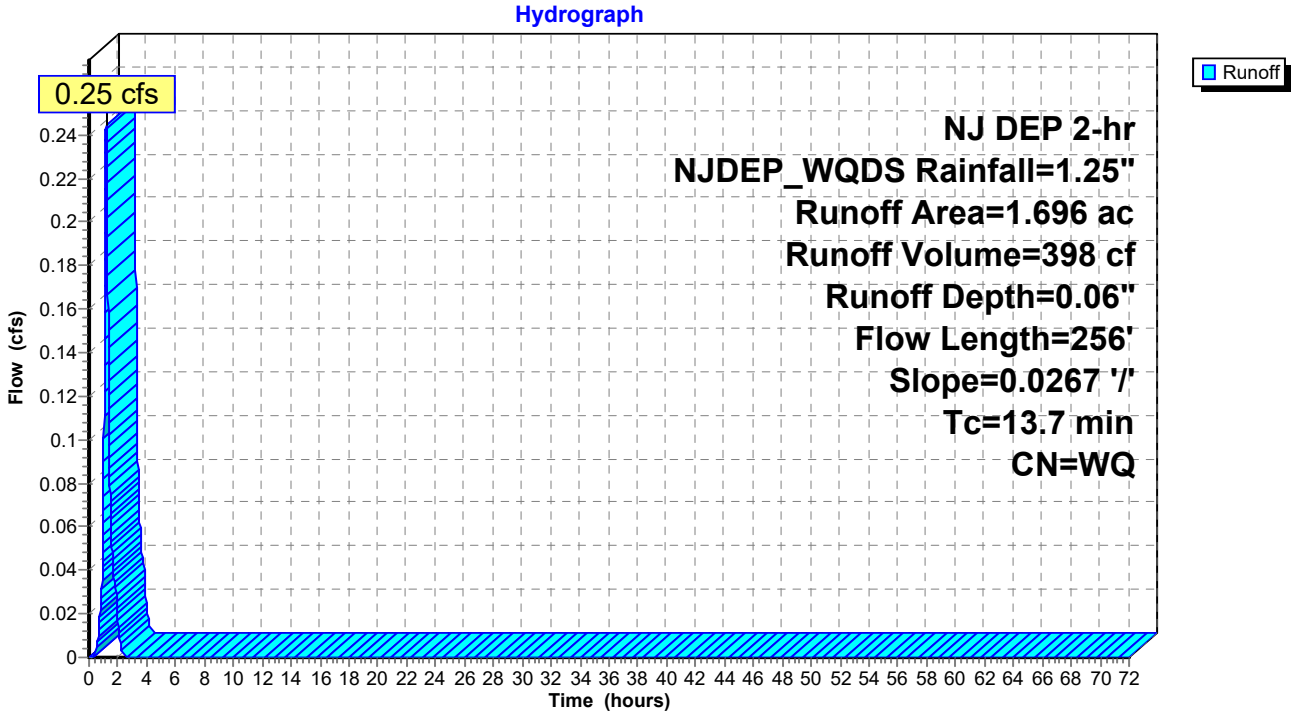
Runoff = 0.25 cfs @ 1.19 hrs, Volume= 398 cf, Depth= 0.06"
Routed to Reach 39R : DA 1A Central Swale A

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
	1.590	39	>75% Grass cover, Good, HSG A
*	0.106	98	Solar
	1.696		Weighted Average
	1.590	39	93.75% Pervious Area
	0.106	98	6.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.4	100	0.0267	0.15		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
2.3	156	0.0267	1.14		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
13.7	256	Total			

Subcatchment 40S: Basin 1A West



Summary for Subcatchment 41S: Basin 4 East

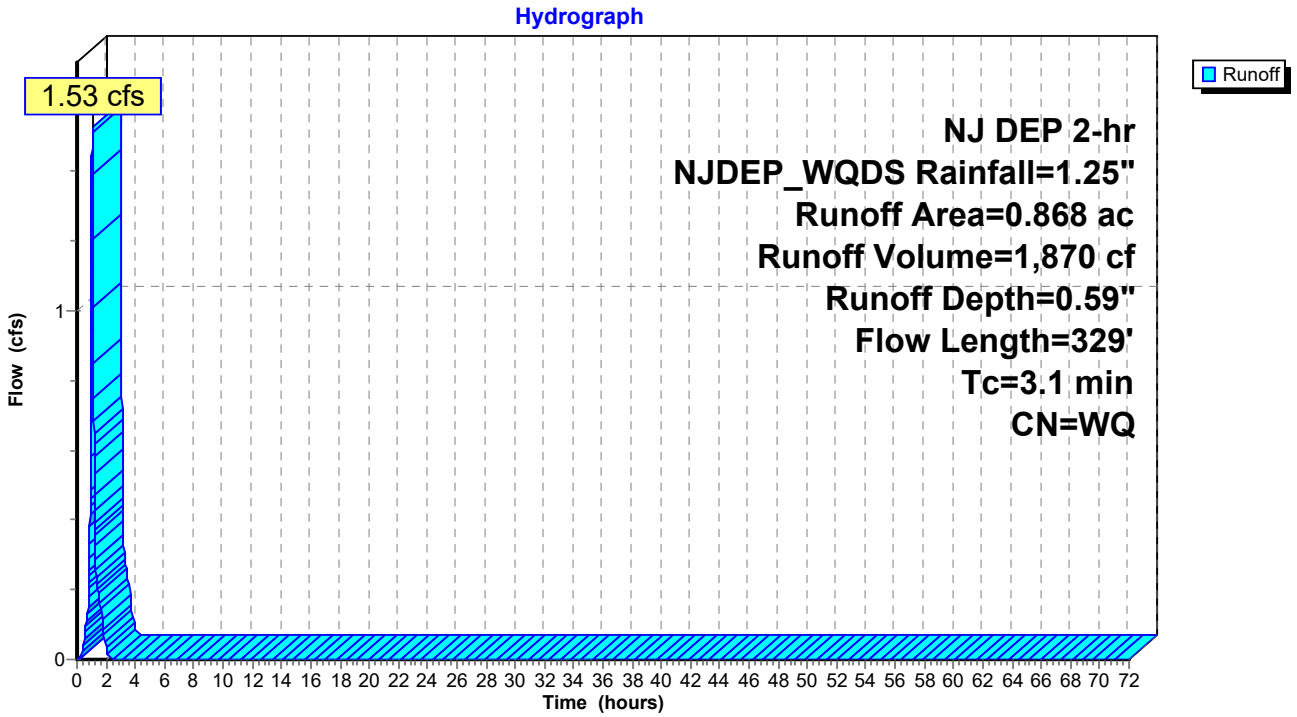
Runoff = 1.53 cfs @ 1.09 hrs, Volume= 1,870 cf, Depth= 0.59"
Routed to Reach 42R : DA4 East Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.498	98	salt storage area
*	0.370	39	grass cover
	0.868		Weighted Average
	0.370	39	42.63% Pervious Area
	0.498	98	57.37% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0296	1.80		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.4	90	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.8	139	0.0325	1.26		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.1	329	Total			

Subcatchment 41S: Basin 4 East



Summary for Subcatchment 42S: Basin 4 West

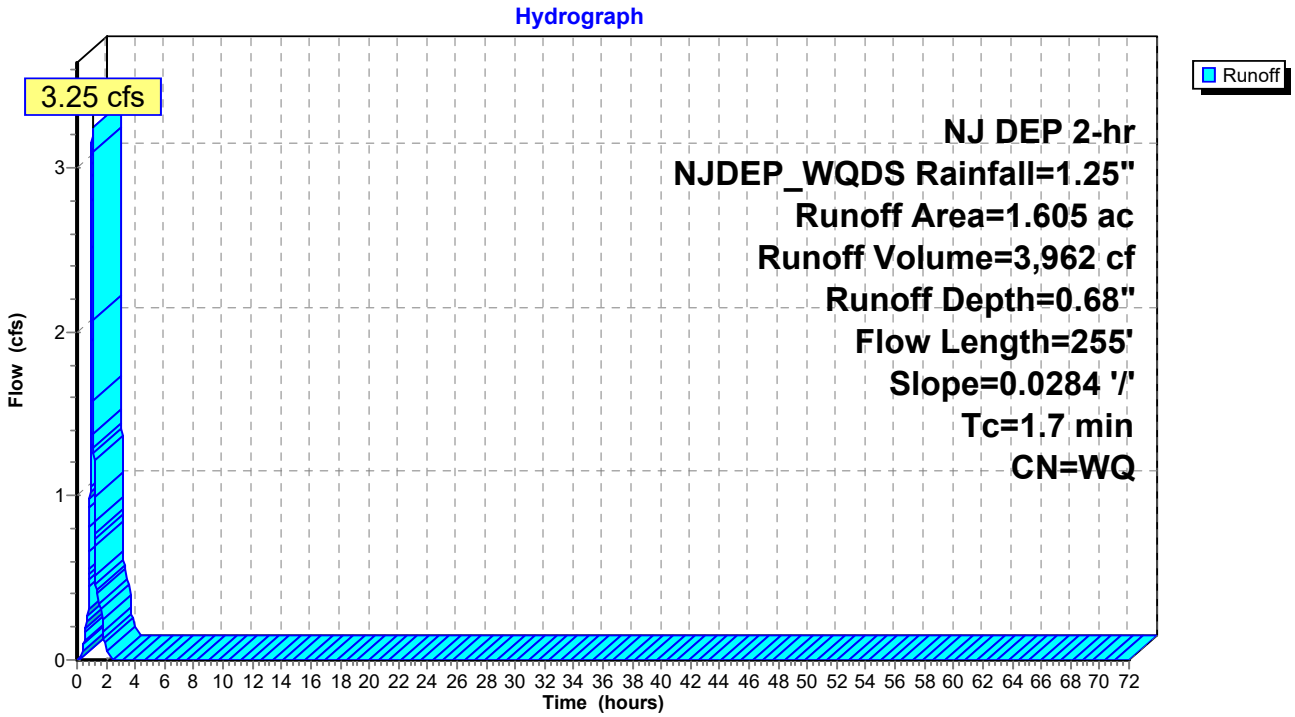
Runoff = 3.25 cfs @ 1.08 hrs, Volume= 3,962 cf, Depth= 0.68"
Routed to Reach 34R : DA4 West Swale

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.237	98	gravel road
*	0.818	98	compost/recycling area
*	0.550	39	grass cover
	1.605		Weighted Average
	0.550	39	34.27% Pervious Area
	1.055	98	65.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0284	1.77		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.8	155	0.0284	3.42		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.7	255	Total			

Subcatchment 42S: Basin 4 West



Summary for Subcatchment 46S: Direct Rainfall Basin 2A Bioretention

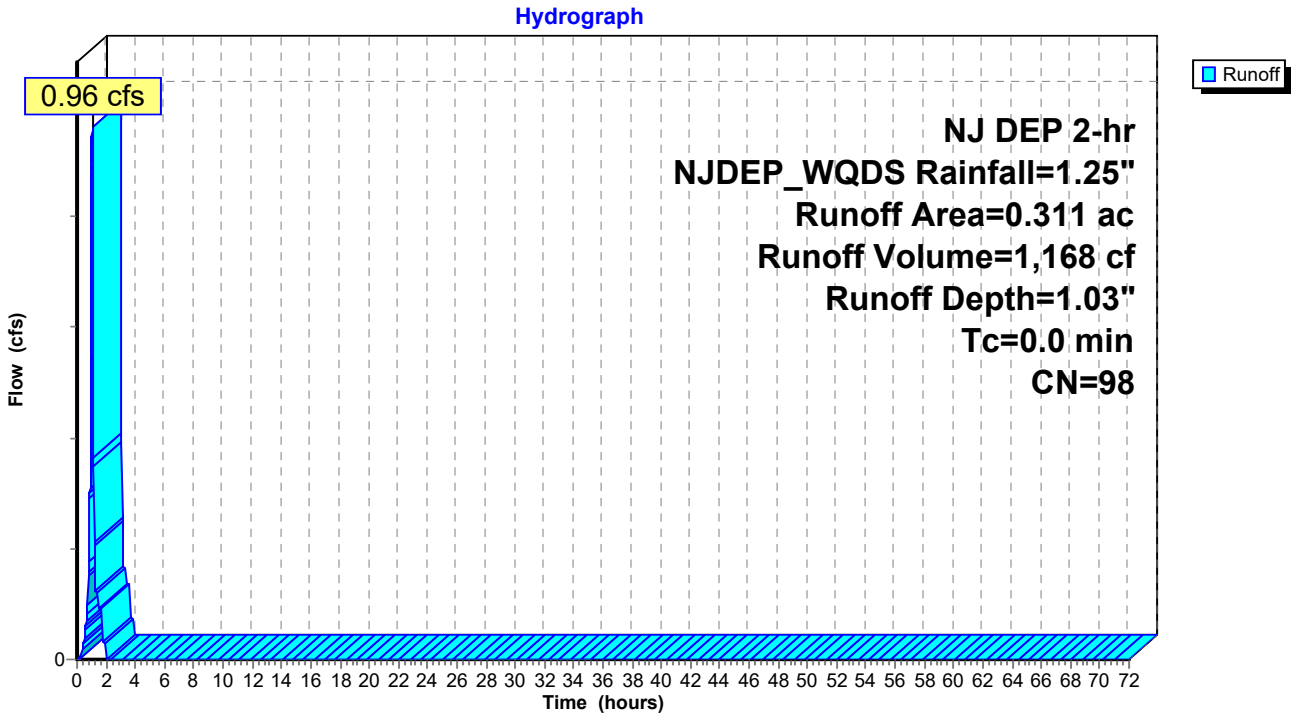
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.96 cfs @ 1.07 hrs, Volume= 1,168 cf, Depth= 1.03"
Routed to Pond 44P : Basin 2A Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.311	98	Direct Rainfall
	0.311	98	100.00% Impervious Area

Subcatchment 46S: Direct Rainfall Basin 2A Bioretention



Summary for Subcatchment 47S: Direct Rainfall Basin 2A Infiltration

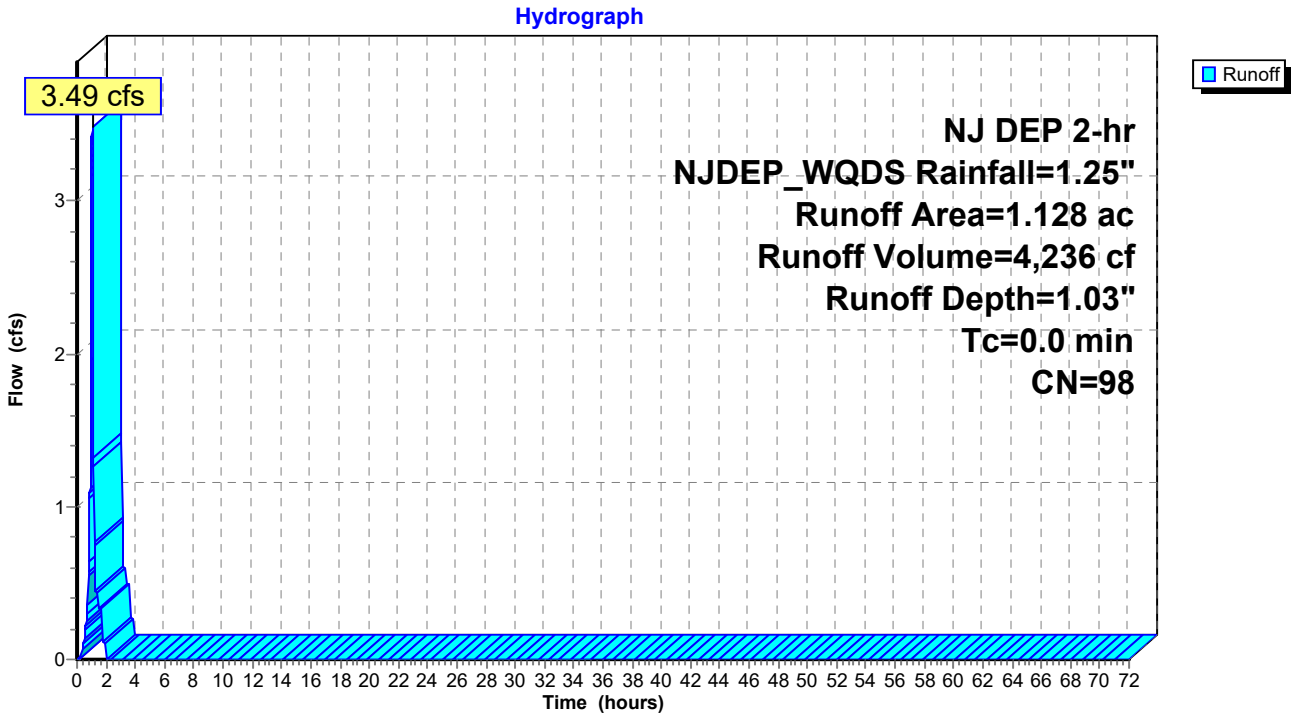
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.49 cfs @ 1.07 hrs, Volume= 4,236 cf, Depth= 1.03"
Routed to Pond 45P : Basin 2A Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	1.128	98	Direct Rainfall
	1.128	98	100.00% Impervious Area

Subcatchment 47S: Direct Rainfall Basin 2A Infiltration



Summary for Subcatchment 48S: Direct Rainfall Basin 1B Bioretention

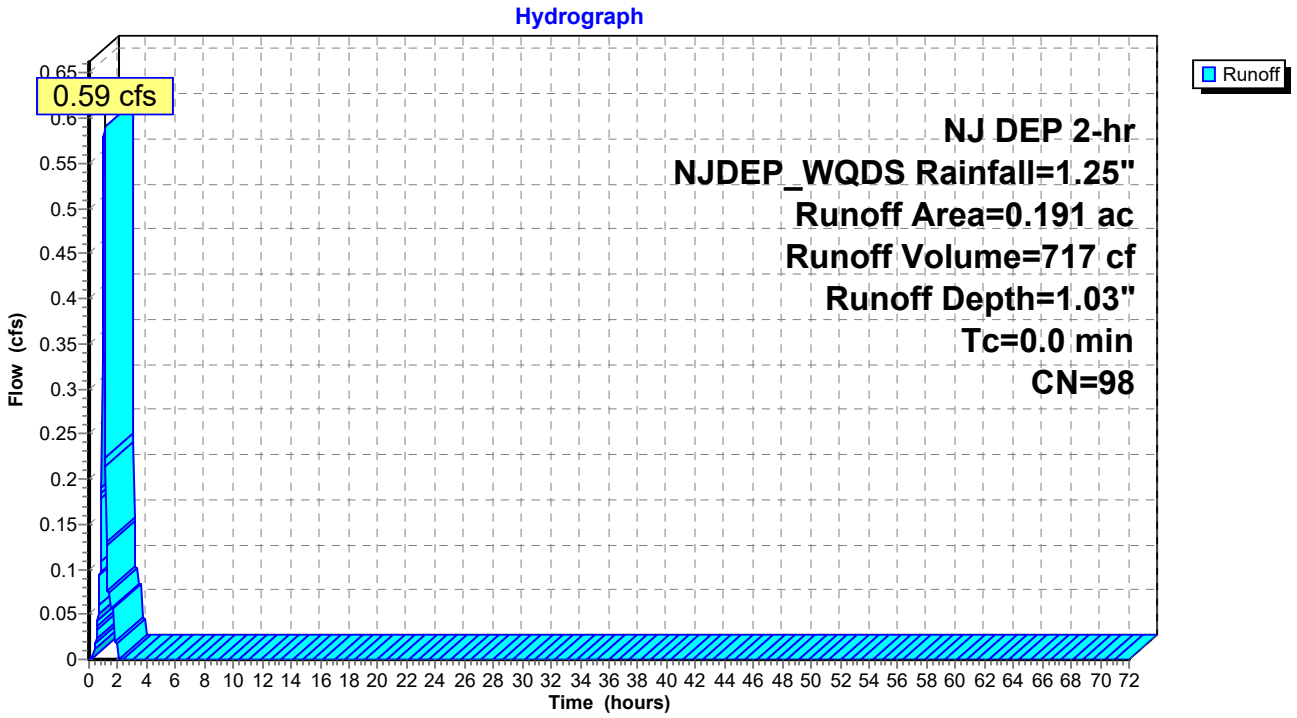
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.59 cfs @ 1.07 hrs, Volume= 717 cf, Depth= 1.03"
Routed to Pond 43P : Basin 1B Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.191	98	direct rainfall onto bioretention
	0.191	98	100.00% Impervious Area

Subcatchment 48S: Direct Rainfall Basin 1B Bioretention



Summary for Subcatchment 49S: Direct Rainfall Basin 1A Infiltration

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

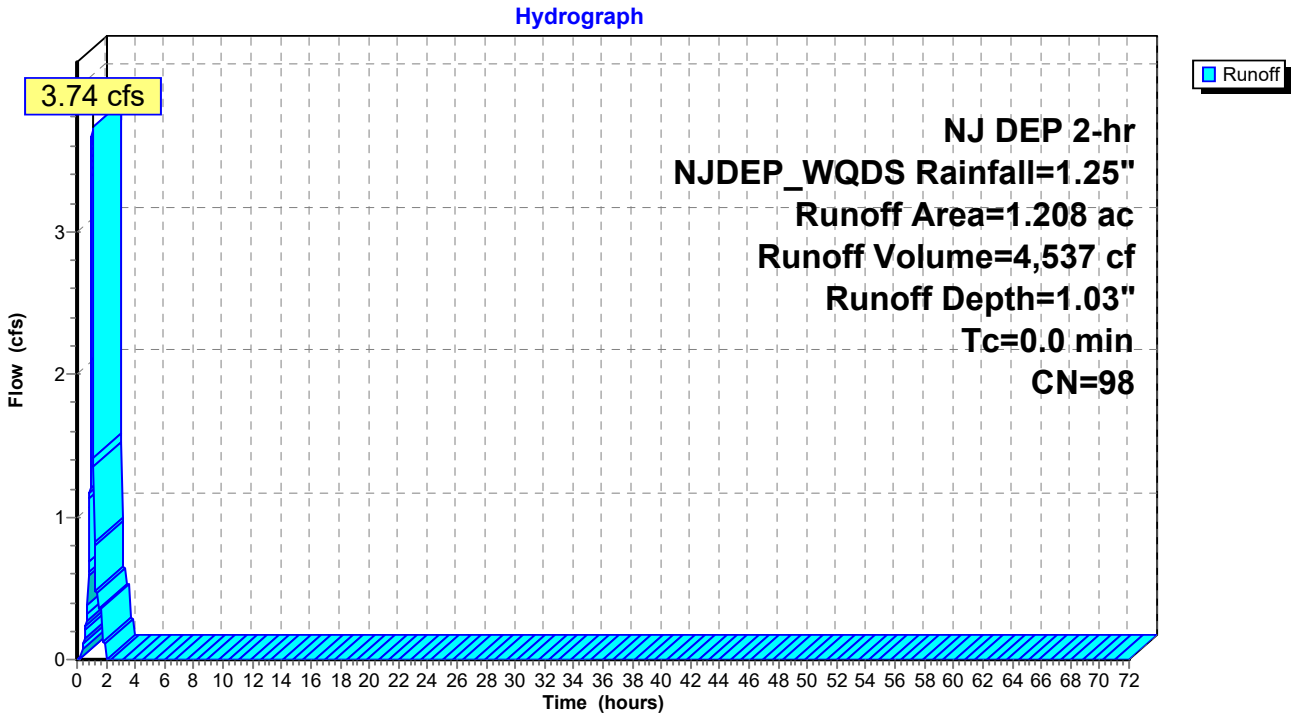
Runoff = 3.74 cfs @ 1.07 hrs, Volume= 4,537 cf, Depth= 1.03"
Routed to Pond 48P : Basin 1A Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	1.208	98	
	1.208	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					**Direct Entry,**

Subcatchment 49S: Direct Rainfall Basin 1A Infiltration



Summary for Subcatchment 50S: Direct Rainfall Basin 1B Infiltration

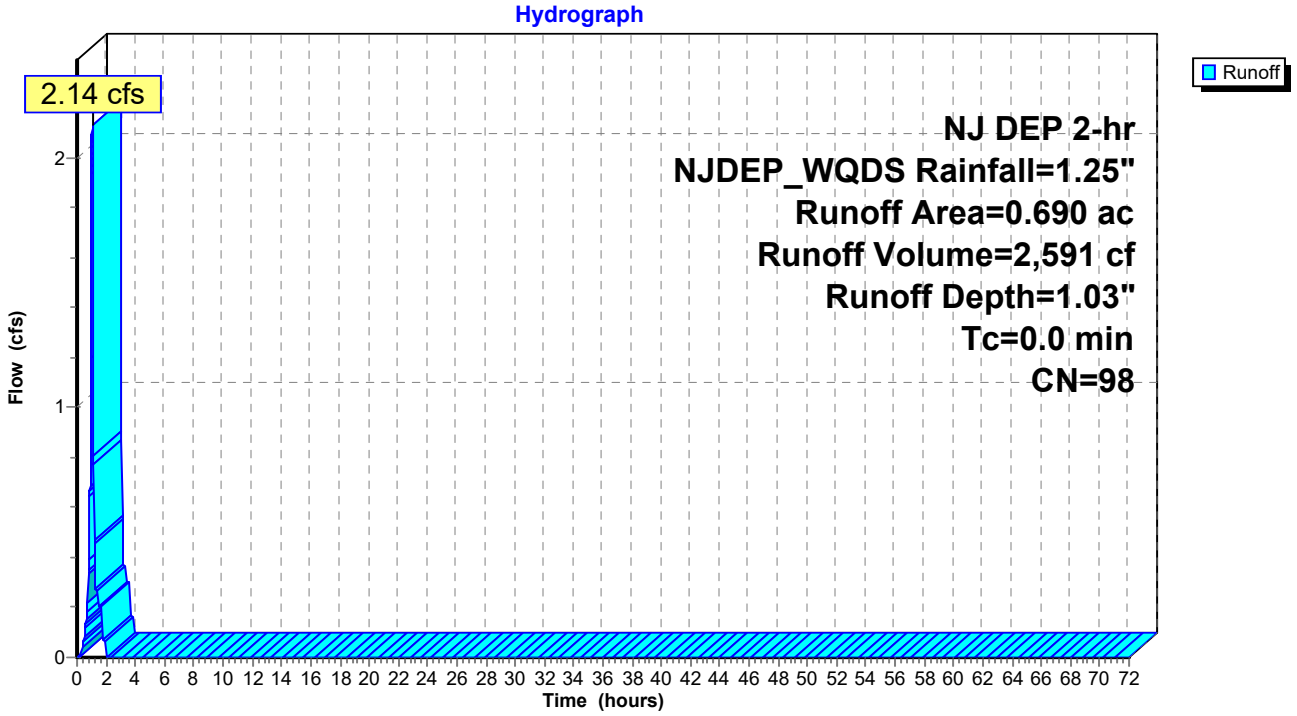
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 2.14 cfs @ 1.07 hrs, Volume= 2,591 cf, Depth= 1.03"
Routed to Pond 46P : Basin 1B Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.690	98	direct rainfall
	0.690	98	100.00% Impervious Area

Subcatchment 50S: Direct Rainfall Basin 1B Infiltration



Summary for Subcatchment 52S: Direct Rainfall Basin 1A Forebay

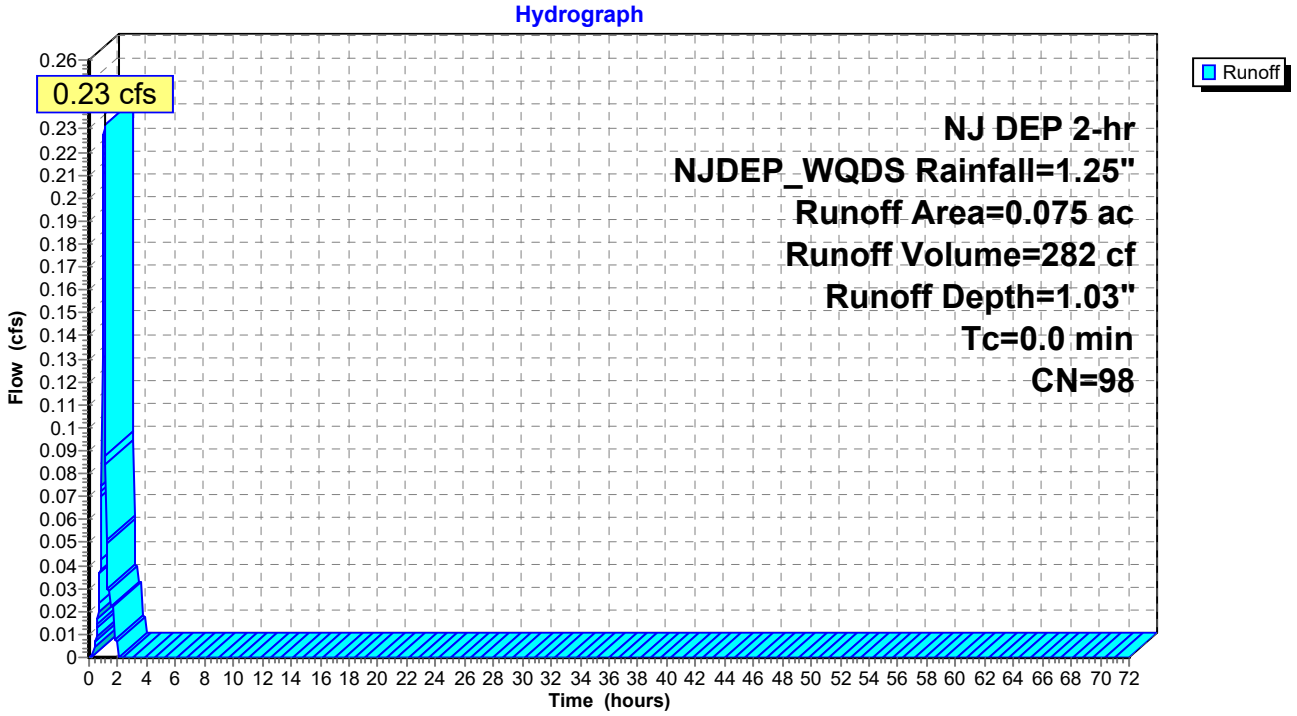
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.23 cfs @ 1.07 hrs, Volume= 282 cf, Depth= 1.03"
Routed to Pond 15P : Basin 1A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.075	98	direct rainfall
	0.075	98	100.00% Impervious Area

Subcatchment 52S: Direct Rainfall Basin 1A Forebay



Summary for Subcatchment 54S: Direct Rainfall Basin 2A forebay

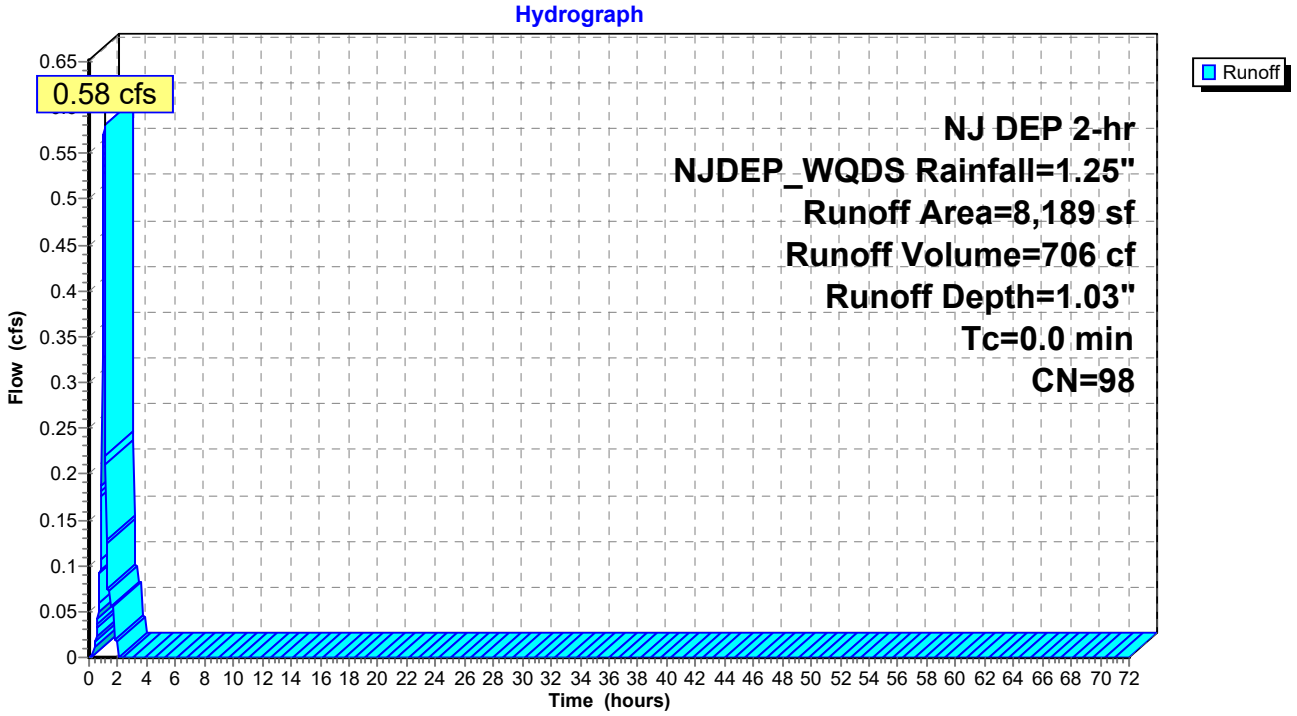
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.58 cfs @ 1.07 hrs, Volume= 706 cf, Depth= 1.03"
Routed to Pond 26P : Basin 2A Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (sf)	CN	Description
*	8,189	98	direct rainfall to forebay
	8,189	98	100.00% Impervious Area

Subcatchment 54S: Direct Rainfall Basin 2A forebay



Summary for Subcatchment 55S: Direct Rainfall Basin 3 Forebay

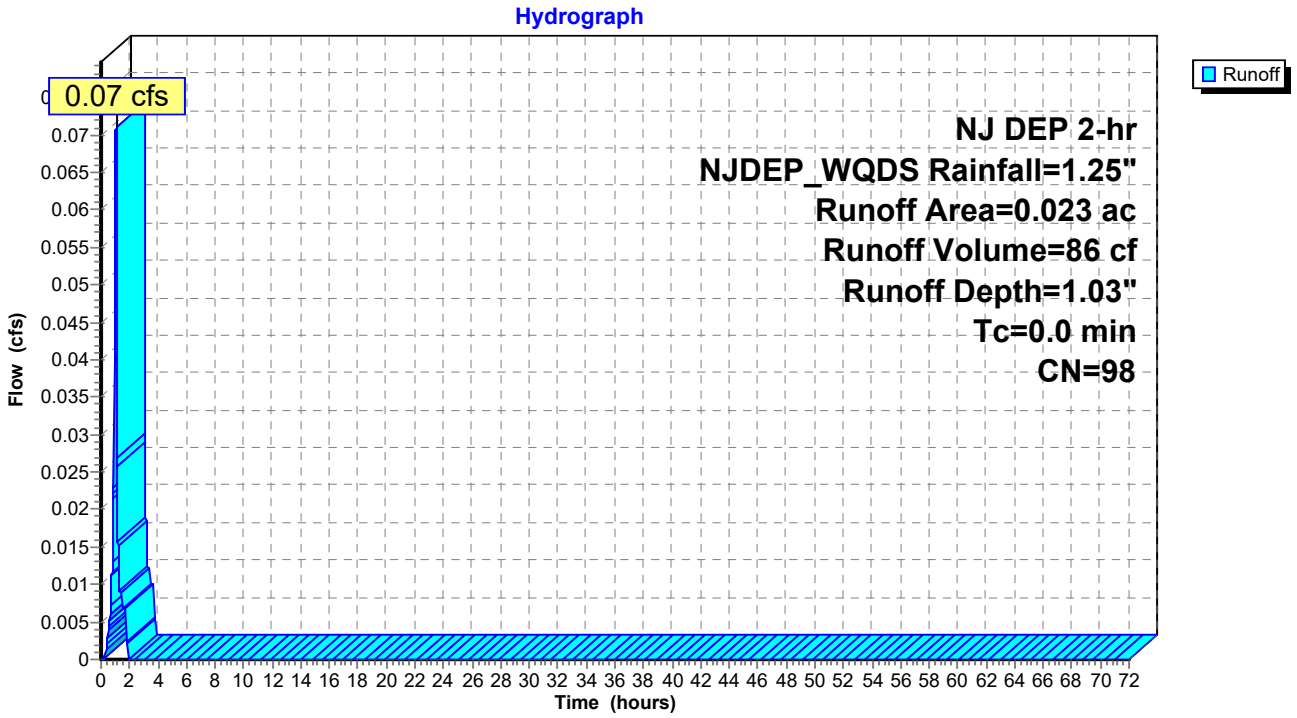
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.07 cfs @ 1.07 hrs, Volume= 86 cf, Depth= 1.03"
Routed to Pond 38P : Basin 3 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.023	98	direct rainfall
	0.023	98	100.00% Impervious Area

Subcatchment 55S: Direct Rainfall Basin 3 Forebay



Summary for Subcatchment 56S: Direct Rainfall Basin 1B Forebay

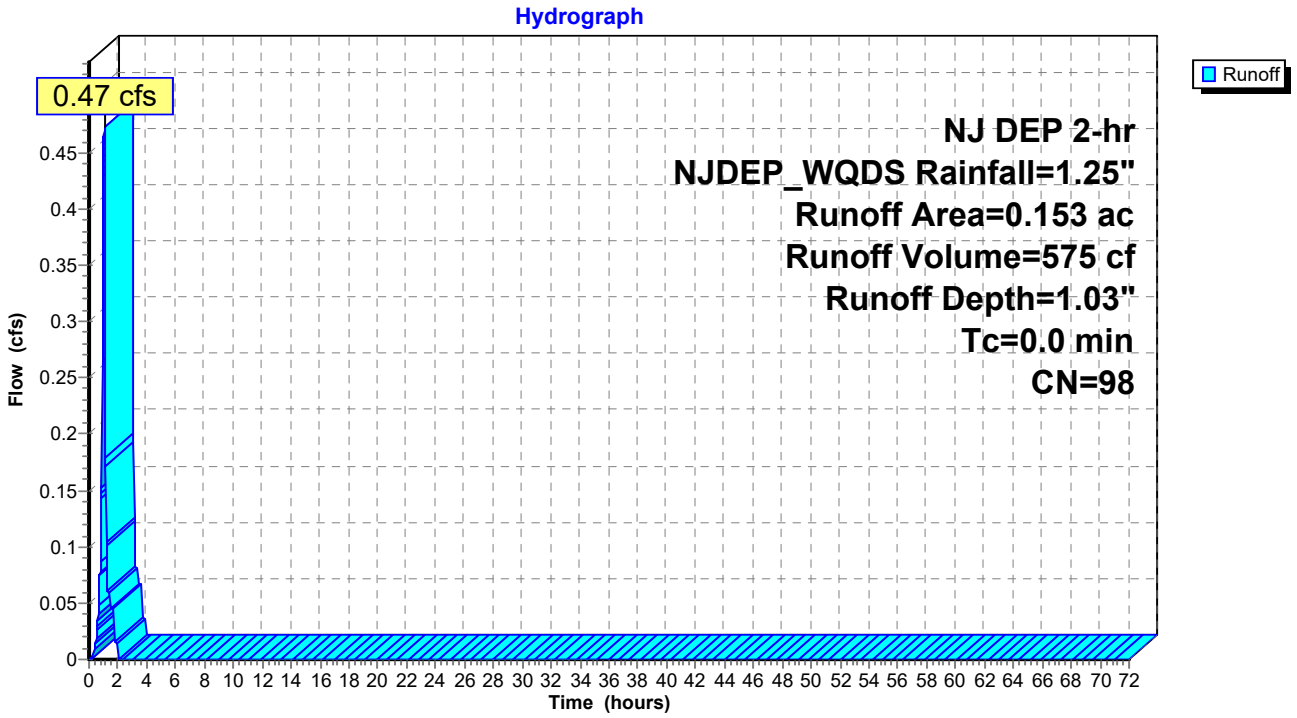
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.47 cfs @ 1.07 hrs, Volume= 575 cf, Depth= 1.03"
Routed to Pond 18P : Basin 1B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.153	98	direct rainfall
	0.153	98	100.00% Impervious Area

Subcatchment 56S: Direct Rainfall Basin 1B Forebay



Summary for Subcatchment 57S: Direct Rainfall Basin 4 Forebay

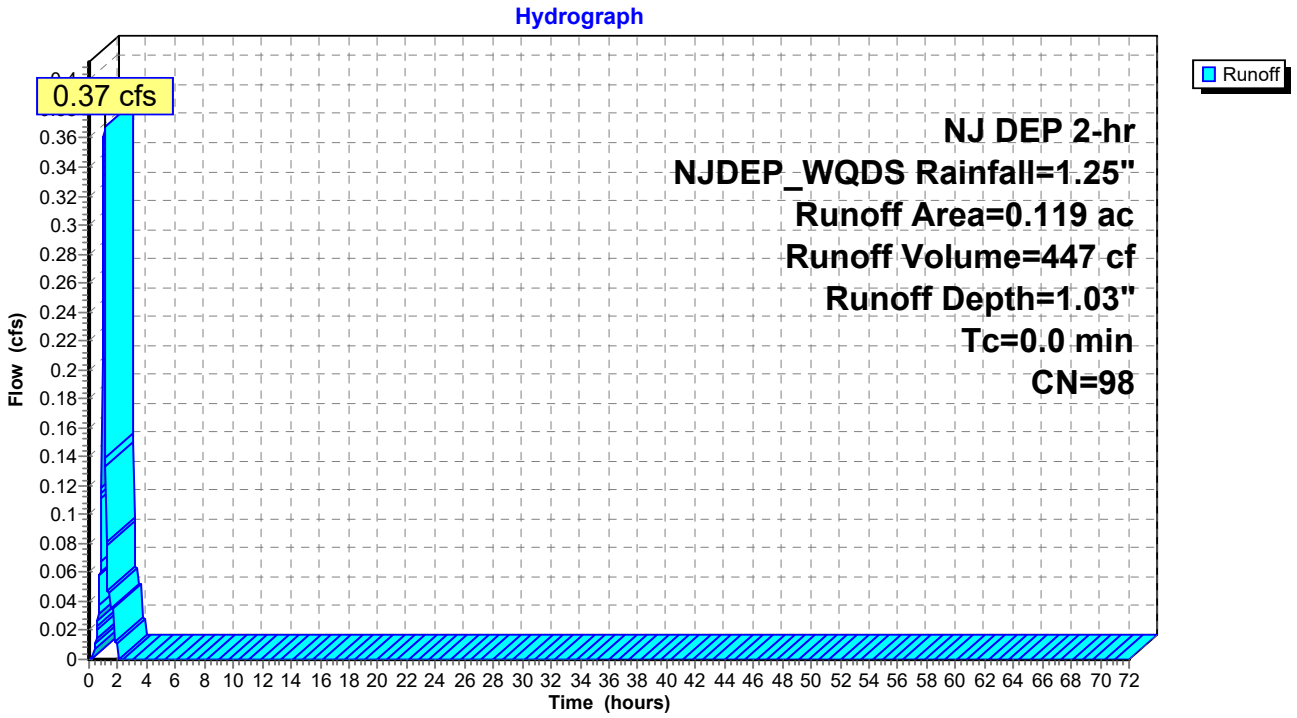
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.37 cfs @ 1.07 hrs, Volume= 447 cf, Depth= 1.03"
Routed to Pond 39P : Basin 4 Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.119	98	direct rainfall
	0.119	98	100.00% Impervious Area

Subcatchment 57S: Direct Rainfall Basin 4 Forebay



Summary for Subcatchment 58S: Direct forest undeveloped runoff to basin

[45] Hint: Runoff=Zero

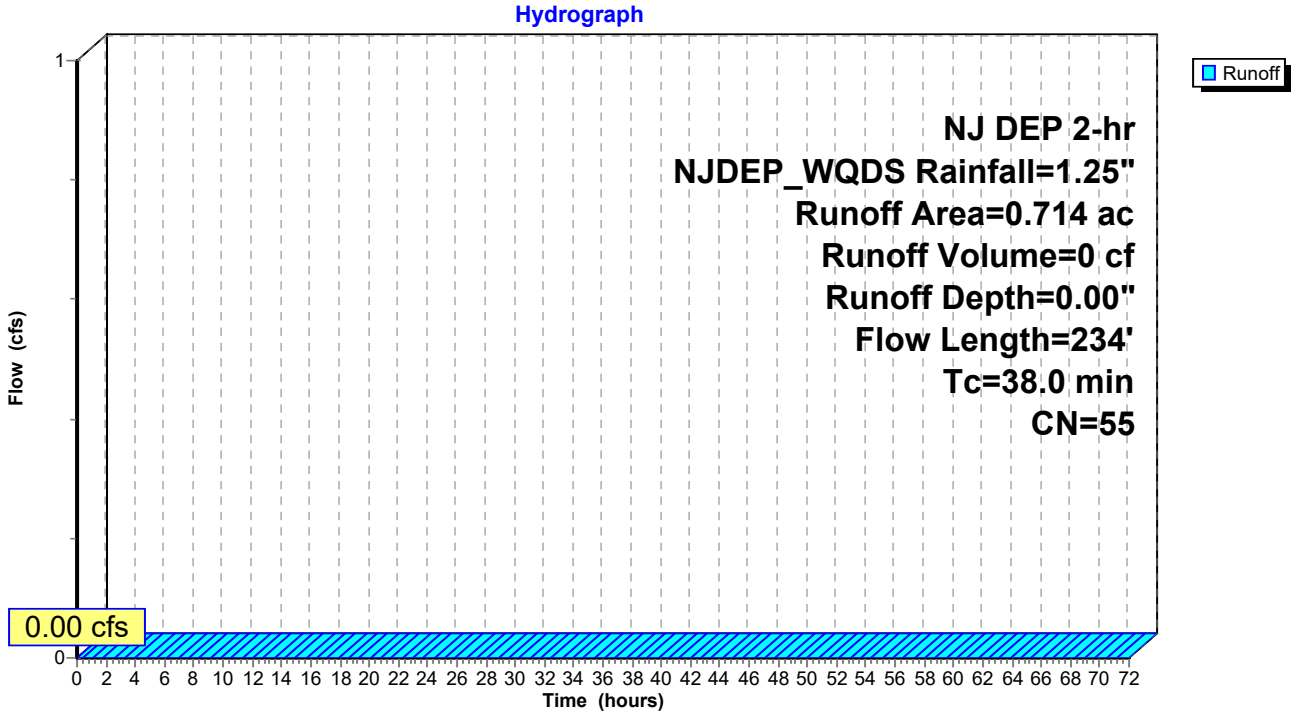
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
0.714	55	Woods, Good, HSG B
0.714	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
33.4	100	0.0200	0.05		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 4.01"
4.6	134	0.0370	0.48		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
38.0	234	Total			

Subcatchment 58S: Direct forest undeveloped runoff to basin



Summary for Subcatchment 59S: Direct Rainfall Basin 4 Infiltration

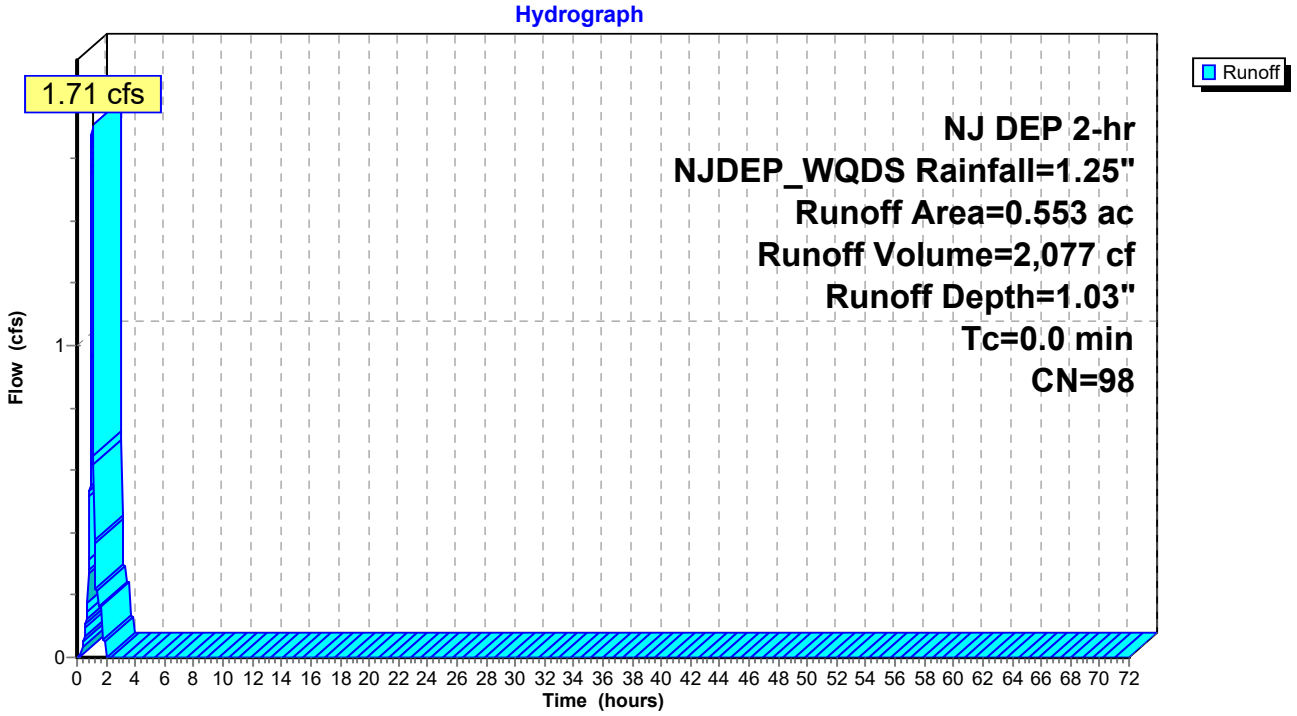
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.71 cfs @ 1.07 hrs, Volume= 2,077 cf, Depth= 1.03"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.553	98	direct rainfall
	0.553	98	100.00% Impervious Area

Subcatchment 59S: Direct Rainfall Basin 4 Infiltration



Summary for Subcatchment 62S: Direct Rainfall Basin 3 Infiltration

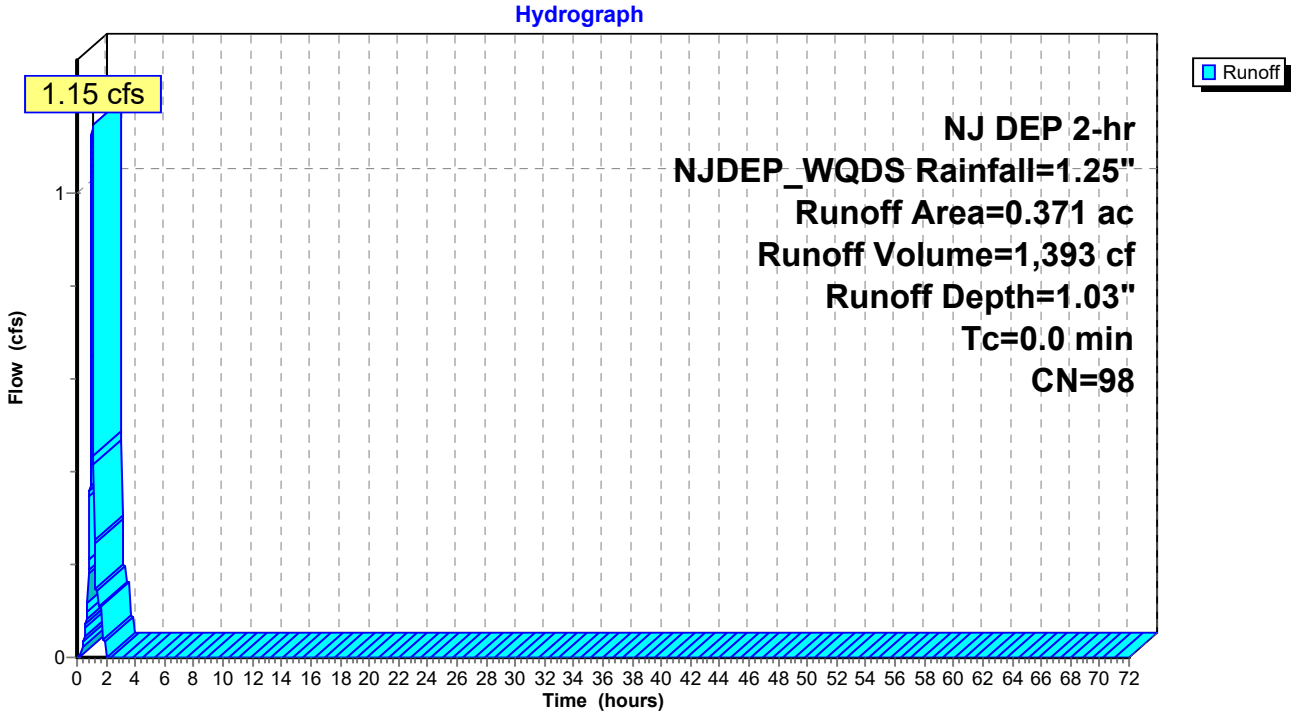
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 1.15 cfs @ 1.07 hrs, Volume= 1,393 cf, Depth= 1.03"
Routed to Pond 61P : Basin 3 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.371	98	
	0.371	98	100.00% Impervious Area

Subcatchment 62S: Direct Rainfall Basin 3 Infiltration



Summary for Subcatchment 65S: Direct Rainfall Basin 3 Bioretention

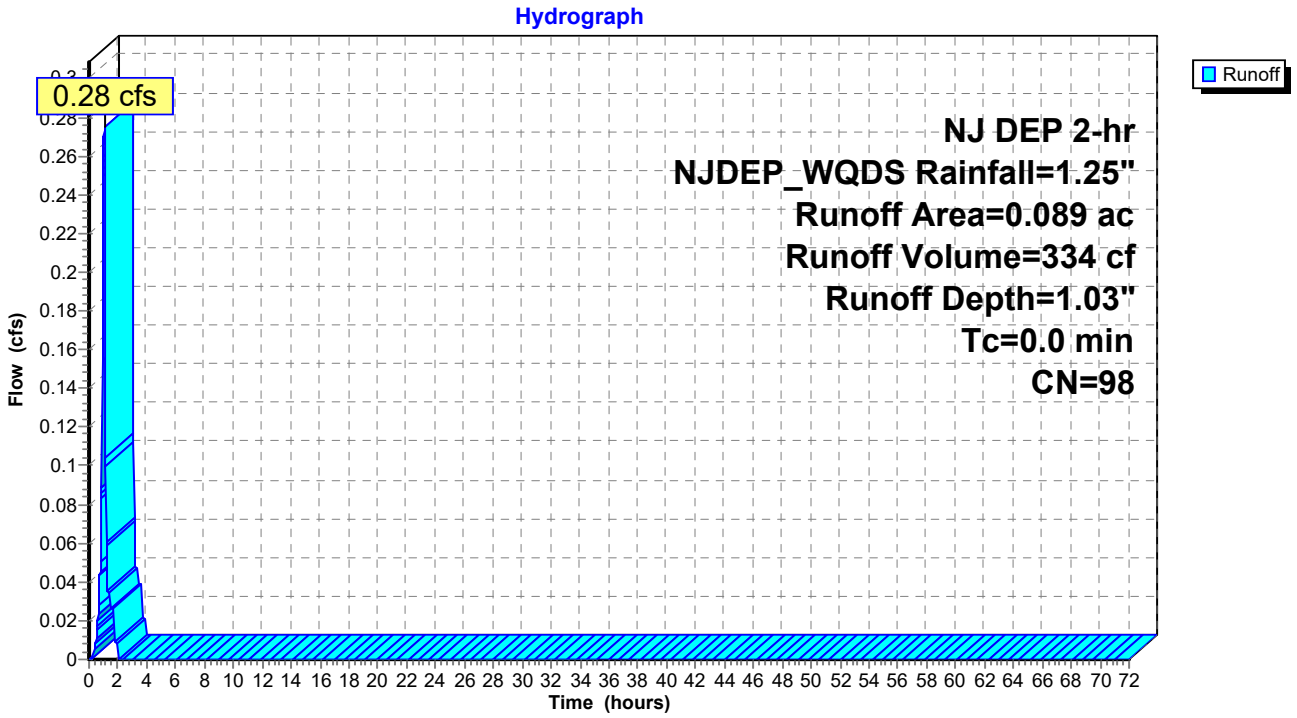
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.28 cfs @ 1.07 hrs, Volume= 334 cf, Depth= 1.03"
Routed to Pond 60P : Basin 3 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.089	98	
	0.089	98	100.00% Impervious Area

Subcatchment 65S: Direct Rainfall Basin 3 Bioretention



Summary for Subcatchment 69S: Direct Rainfall Basin 2B Forebay

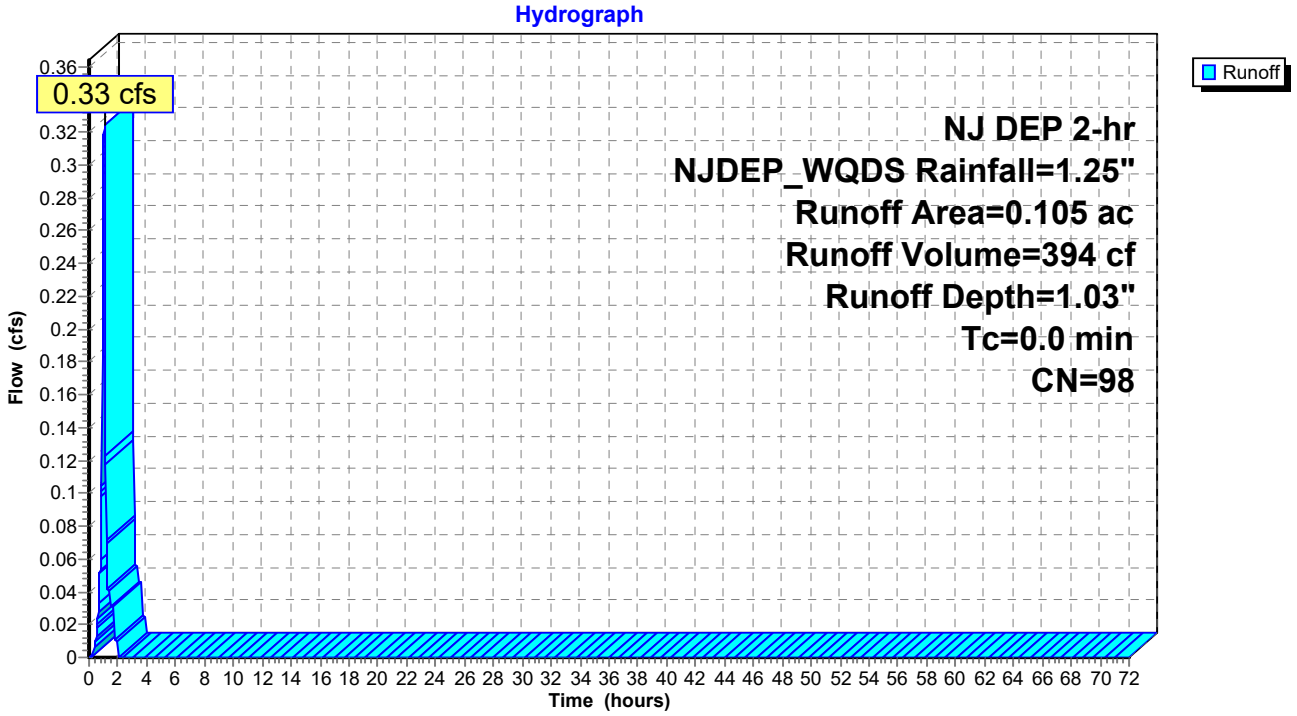
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.33 cfs @ 1.07 hrs, Volume= 394 cf, Depth= 1.03"
Routed to Pond 65P : Basin 2B Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.105	98	direct rainfall
	0.105	98	100.00% Impervious Area

Subcatchment 69S: Direct Rainfall Basin 2B Forebay



Summary for Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin

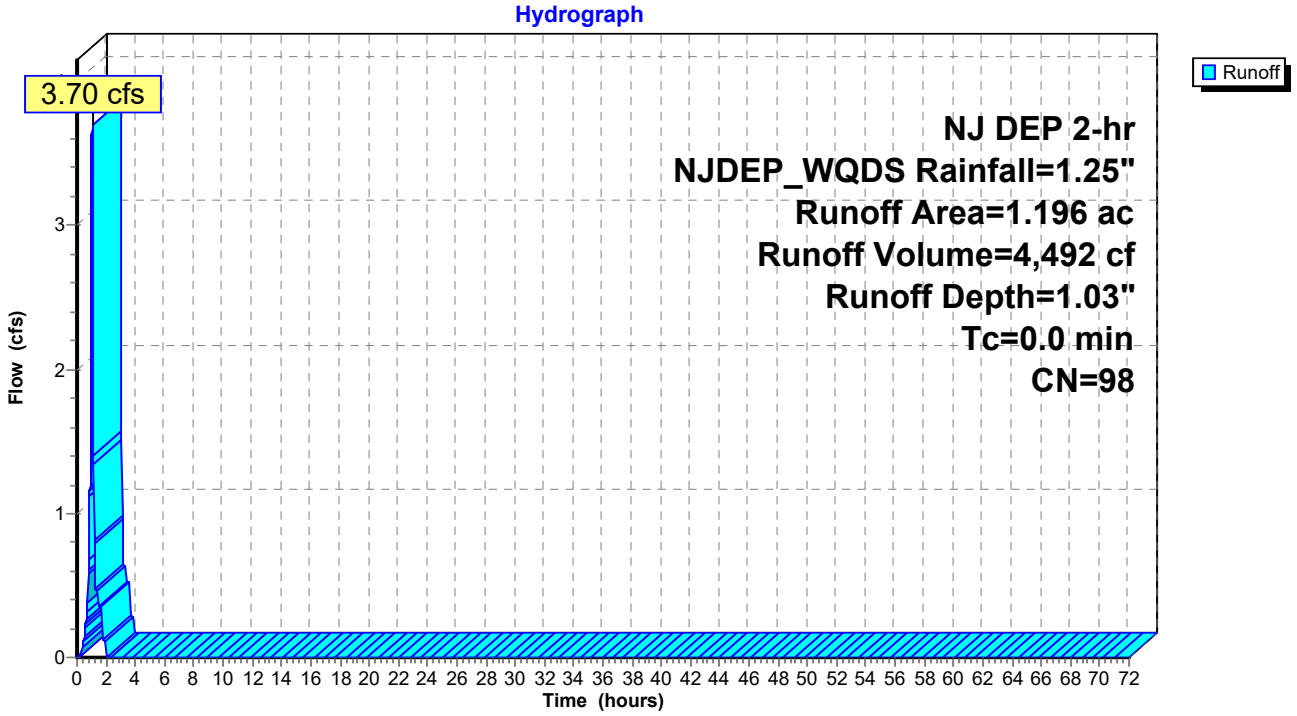
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 3.70 cfs @ 1.07 hrs, Volume= 4,492 cf, Depth= 1.03"
Routed to Pond 66P : Basin 2B Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	1.196	98	direct rainfall
	1.196	98	100.00% Impervious Area

Subcatchment 70S: Direct Rainfall Basin 2B Infiltration Basin



Summary for Subcatchment 71S: Direct Rainfall to Bioretention

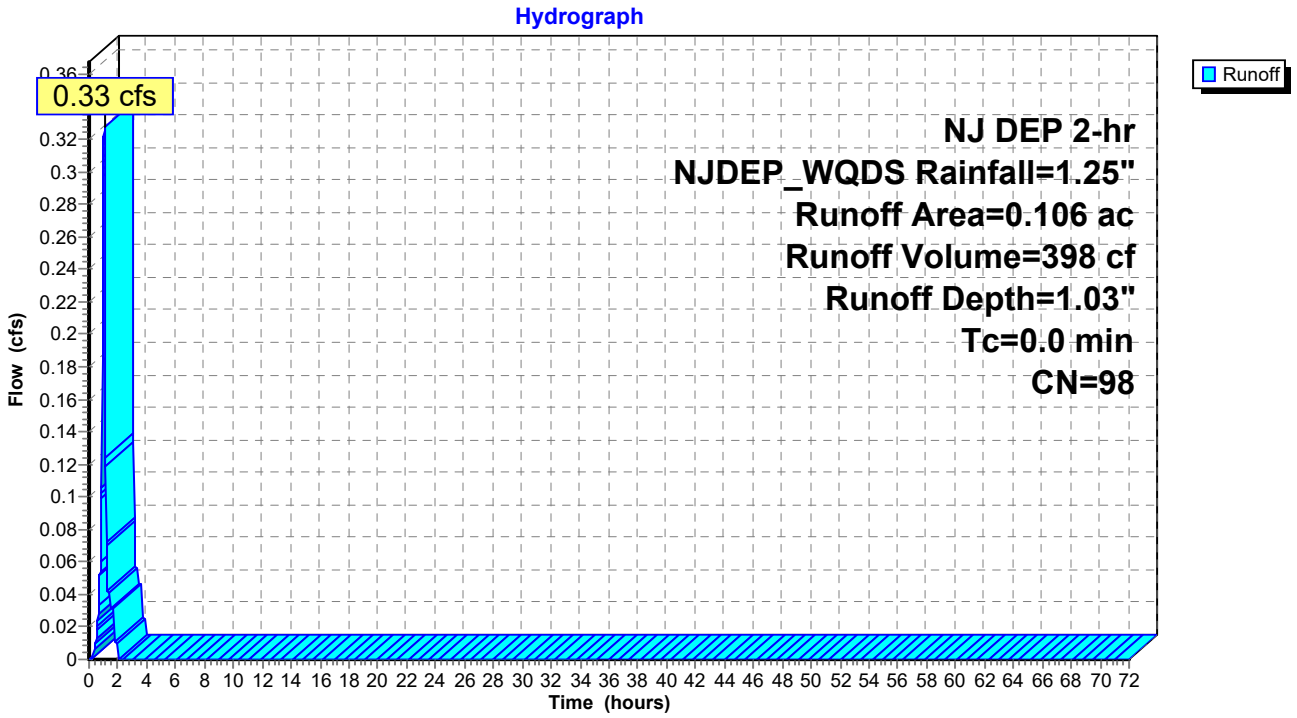
[46] Hint: Tc=0 (Instant runoff peak depends on dt)

Runoff = 0.33 cfs @ 1.07 hrs, Volume= 398 cf, Depth= 1.03"
Routed to Pond 51P : Basin 4 Bioretention

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.106	98	direct rainfall to bioretention
	0.106	98	100.00% Impervious Area

Subcatchment 71S: Direct Rainfall to Bioretention



Summary for Subcatchment 74S: Direct forest runoff to infiltration basin

[45] Hint: Runoff=Zero

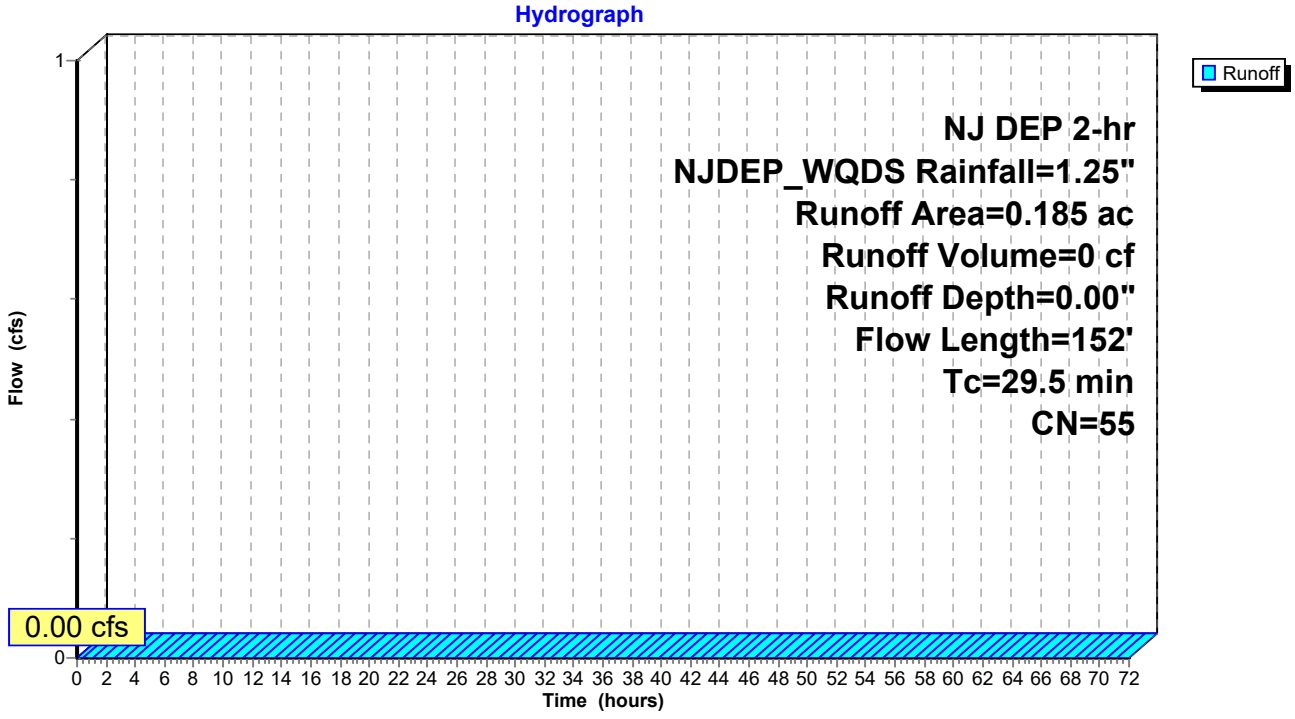
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"
Routed to Pond 52P : Basin 4 Infiltration

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
0.185	55	Woods, Good, HSG B
0.185	55	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.4	100	0.0300	0.06		**Sheet Flow,** Woods: Dense underbrush n= 0.800 P2= 4.01"
1.1	52	0.1000	0.79		**Shallow Concentrated Flow,** Forest w/Heavy Litter Kv= 2.5 fps
29.5	152	Total			

Subcatchment 74S: Direct forest runoff to infiltration basin



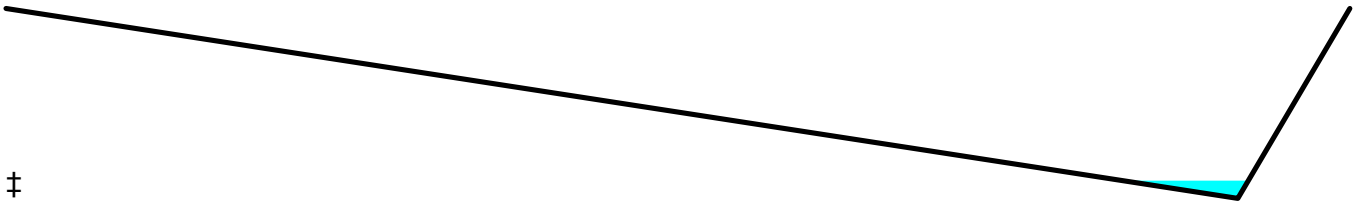
Summary for Reach 29R: DA1A East Swale

Inflow Area = 182,579 sf, 6.17% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.57 cfs @ 1.20 hrs, Volume= 971 cf
Outflow = 0.21 cfs @ 2.17 hrs, Volume= 971 cf, Atten= 64%, Lag= 57.9 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.33 fps, Min. Travel Time= 42.4 min
Avg. Velocity = 0.11 fps, Avg. Travel Time= 130.9 min

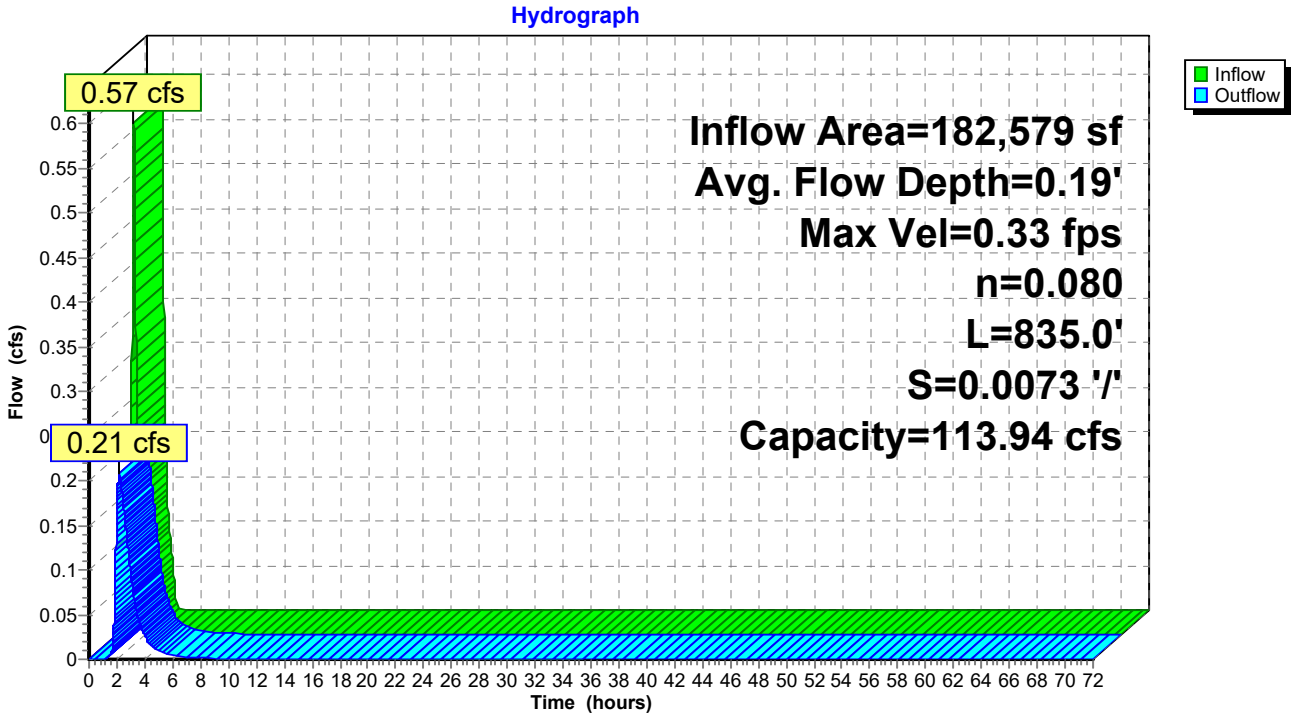
Peak Storage= 531 cf @ 1.46 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 6.76'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 113.94 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 835.0' Slope= 0.0073 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 29R: DA1A East Swale



Summary for Reach 30R: DA1A West Swale

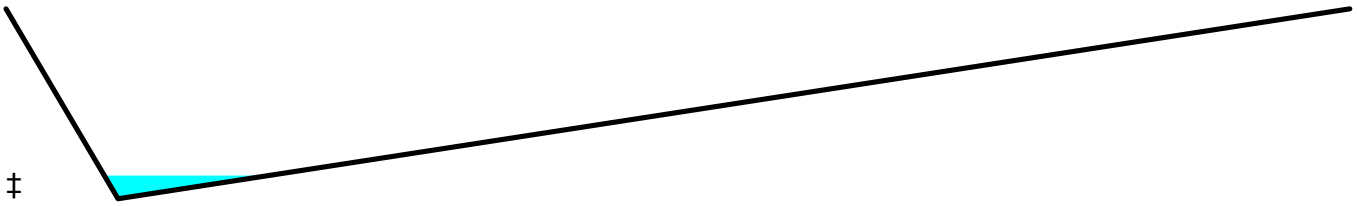
[62] Hint: Exceeded Reach 41R OUTLET depth by 0.21' @ 1.37 hrs

Inflow Area = 324,304 sf, 6.25% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.76 cfs @ 1.23 hrs, Volume= 1,746 cf
Outflow = 0.31 cfs @ 2.11 hrs, Volume= 1,746 cf, Atten= 60%, Lag= 53.3 min
Routed to Pond 15P : Basin 1A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.28 fps, Min. Travel Time= 38.2 min
Avg. Velocity = 0.09 fps, Avg. Travel Time= 127.0 min

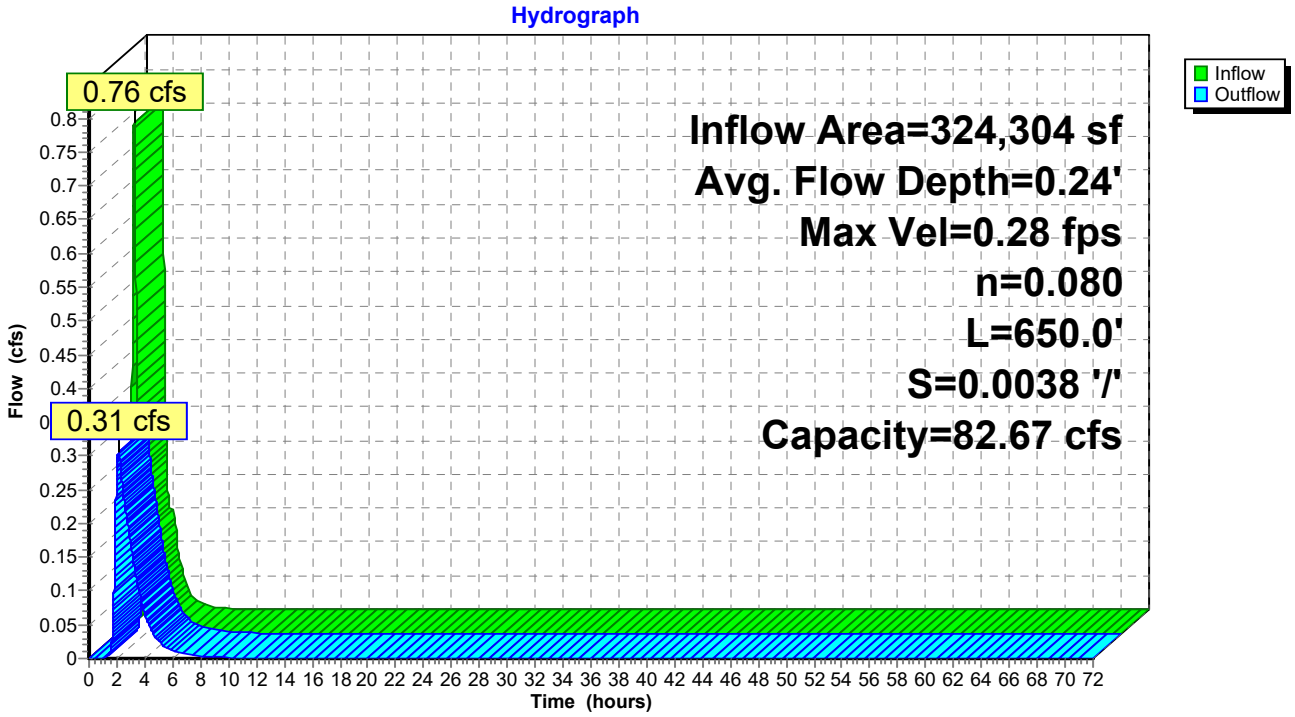
Peak Storage= 702 cf @ 1.48 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 8.81'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 82.67 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 650.0' Slope= 0.0038 '/'
Inlet Invert= 162.50', Outlet Invert= 160.00'



‡

Reach 30R: DA1A West Swale



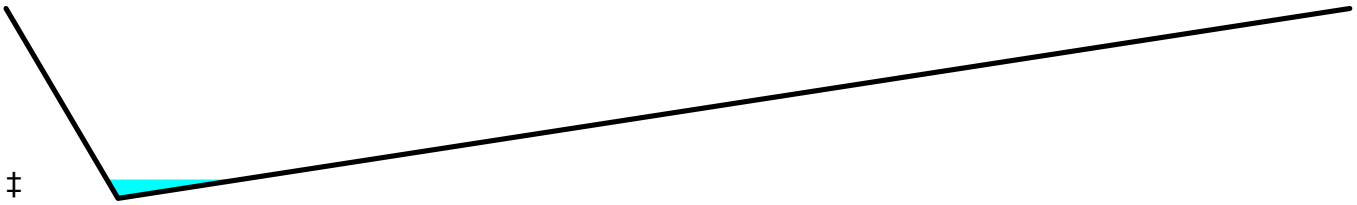
Summary for Reach 31R: DA2B East Swale

Inflow Area = 195,980 sf, 6.17% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.60 cfs @ 1.22 hrs, Volume= 1,042 cf
Outflow = 0.26 cfs @ 2.02 hrs, Volume= 1,042 cf, Atten= 57%, Lag= 47.7 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.36 fps, Min. Travel Time= 34.0 min
Avg. Velocity = 0.12 fps, Avg. Travel Time= 105.9 min

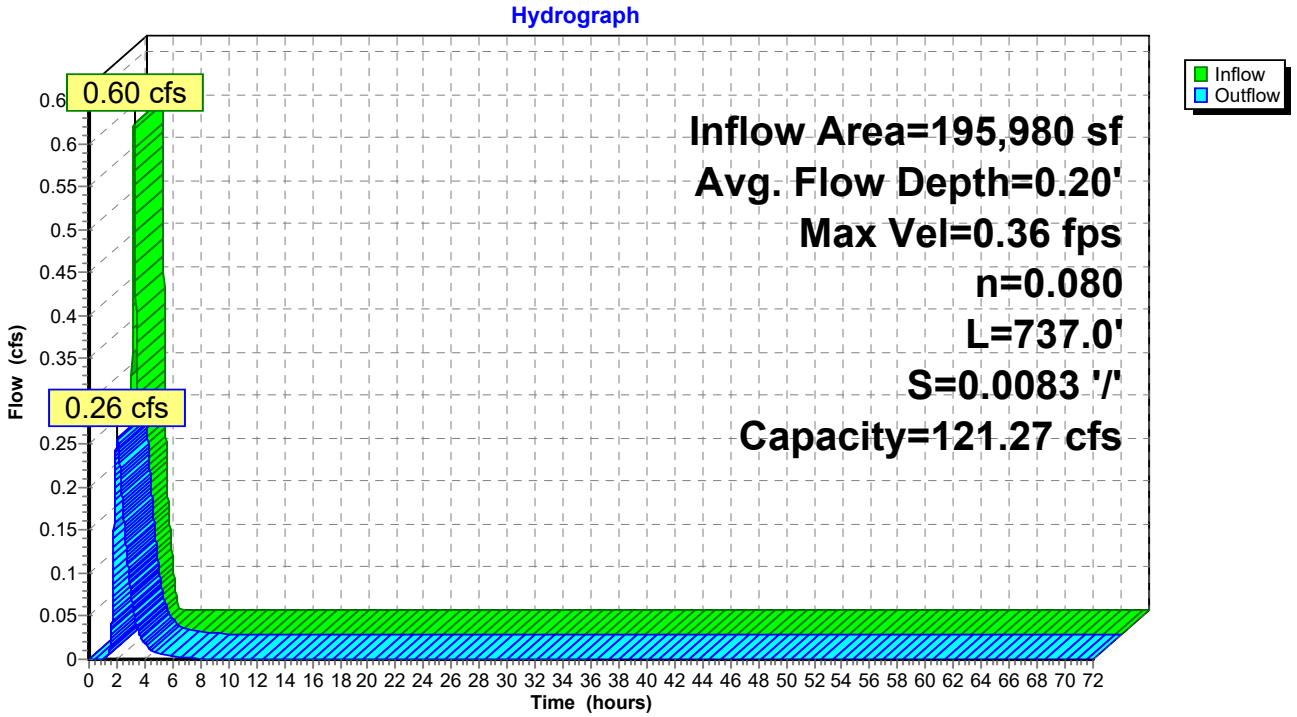
Peak Storage= 523 cf @ 1.45 hrs
Average Depth at Peak Storage= 0.20' , Surface Width= 7.14'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 121.27 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 737.0' Slope= 0.0083 '/'
Inlet Invert= 166.10', Outlet Invert= 160.00'



‡

Reach 31R: DA2B East Swale



Summary for Reach 33R: DA2B West Swale

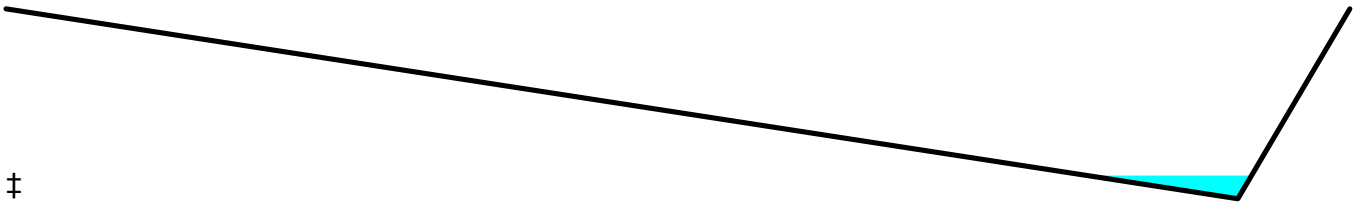
[61] Hint: Exceeded Reach 45R outlet invert by 0.24' @ 1.41 hrs

Inflow Area = 182,604 sf, 6.25% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.56 cfs @ 1.23 hrs, Volume= 984 cf
Outflow = 0.31 cfs @ 1.78 hrs, Volume= 984 cf, Atten= 45%, Lag= 33.2 min
Routed to Pond 65P : Basin 2B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.29 fps, Min. Travel Time= 22.4 min
Avg. Velocity = 0.09 fps, Avg. Travel Time= 74.7 min

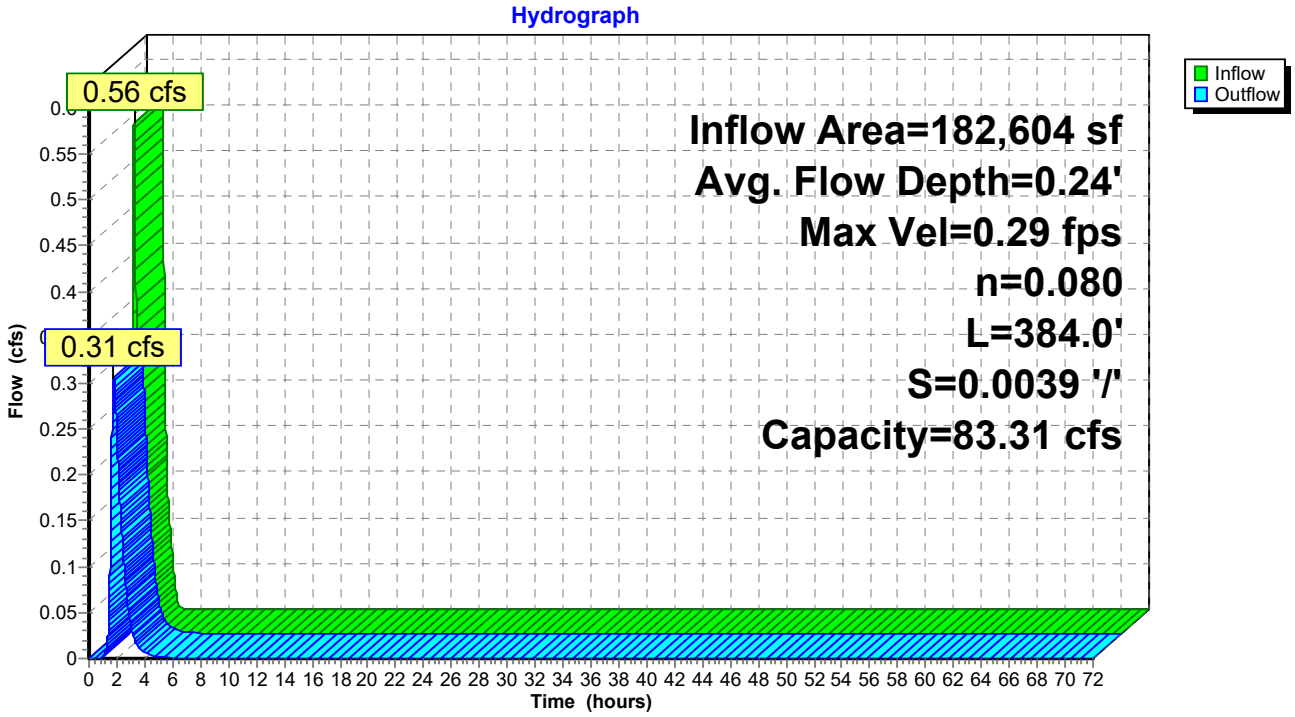
Peak Storage= 413 cf @ 1.41 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 8.79'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 83.31 cfs

0.00' x 2.00' deep channel, n= 0.080 Earth, long dense weeds
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 384.0' Slope= 0.0039 '/'
Inlet Invert= 162.50', Outlet Invert= 161.00'



‡

Reach 33R: DA2B West Swale



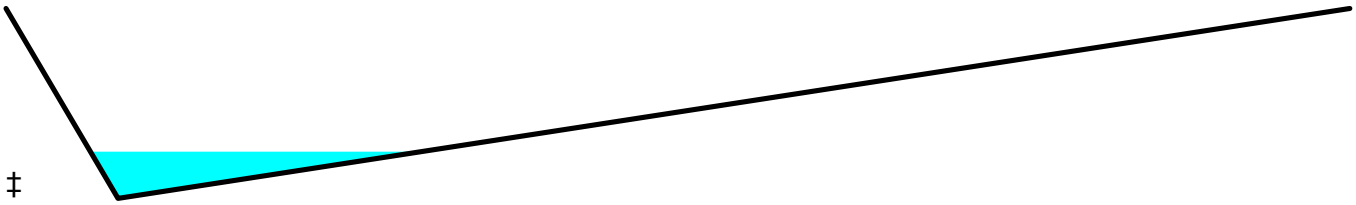
Summary for Reach 34R: DA4 West Swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 0.68" for NJDEP_WQDS event
Inflow = 3.25 cfs @ 1.08 hrs, Volume= 3,962 cf
Outflow = 2.05 cfs @ 1.32 hrs, Volume= 3,962 cf, Atten= 37%, Lag= 14.7 min
Routed to Reach 43R : DA4 Roadside swale

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.47 fps, Min. Travel Time= 12.6 min
Avg. Velocity = 0.11 fps, Avg. Travel Time= 56.6 min

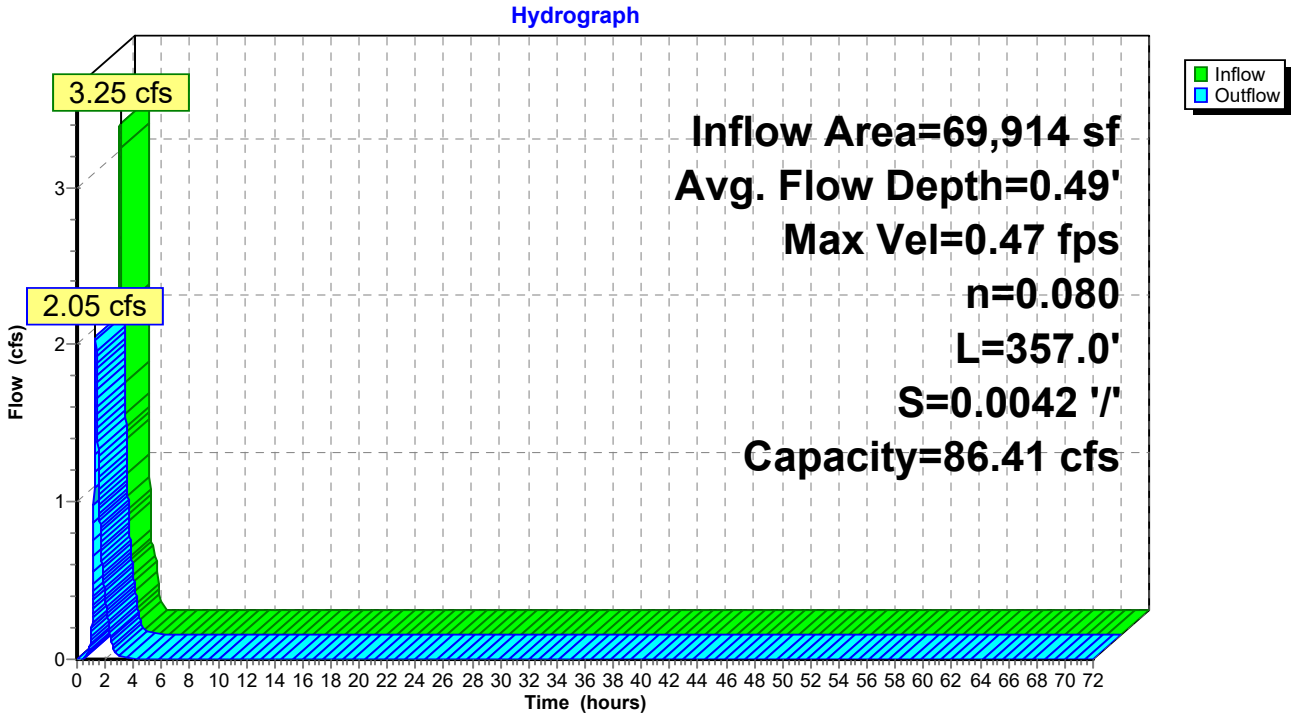
Peak Storage= 1,554 cf @ 1.11 hrs
Average Depth at Peak Storage= 0.49' , Surface Width= 17.70'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 86.41 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 357.0' Slope= 0.0042 '/'
Inlet Invert= 163.50', Outlet Invert= 162.00'



‡

Reach 34R: DA4 West Swale



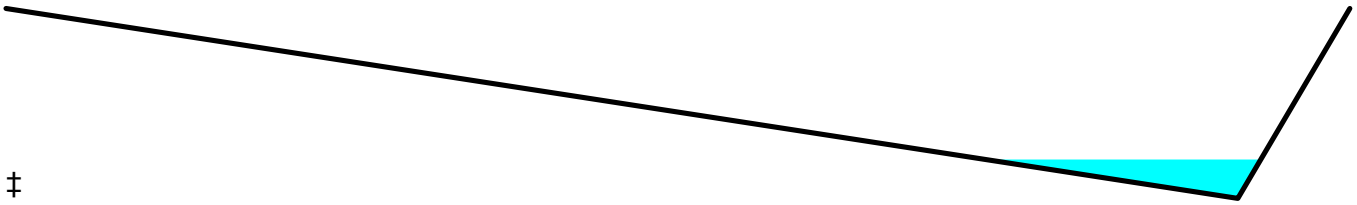
Summary for Reach 35R: DA2A West Swale

Inflow Area = 55,016 sf, 69.91% Impervious, Inflow Depth = 0.72" for NJDEP_WQDS event
Inflow = 2.71 cfs @ 1.08 hrs, Volume= 3,316 cf
Outflow = 1.47 cfs @ 1.40 hrs, Volume= 3,316 cf, Atten= 46%, Lag= 19.1 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.48 fps, Min. Travel Time= 16.5 min
Avg. Velocity = 0.11 fps, Avg. Travel Time= 69.9 min

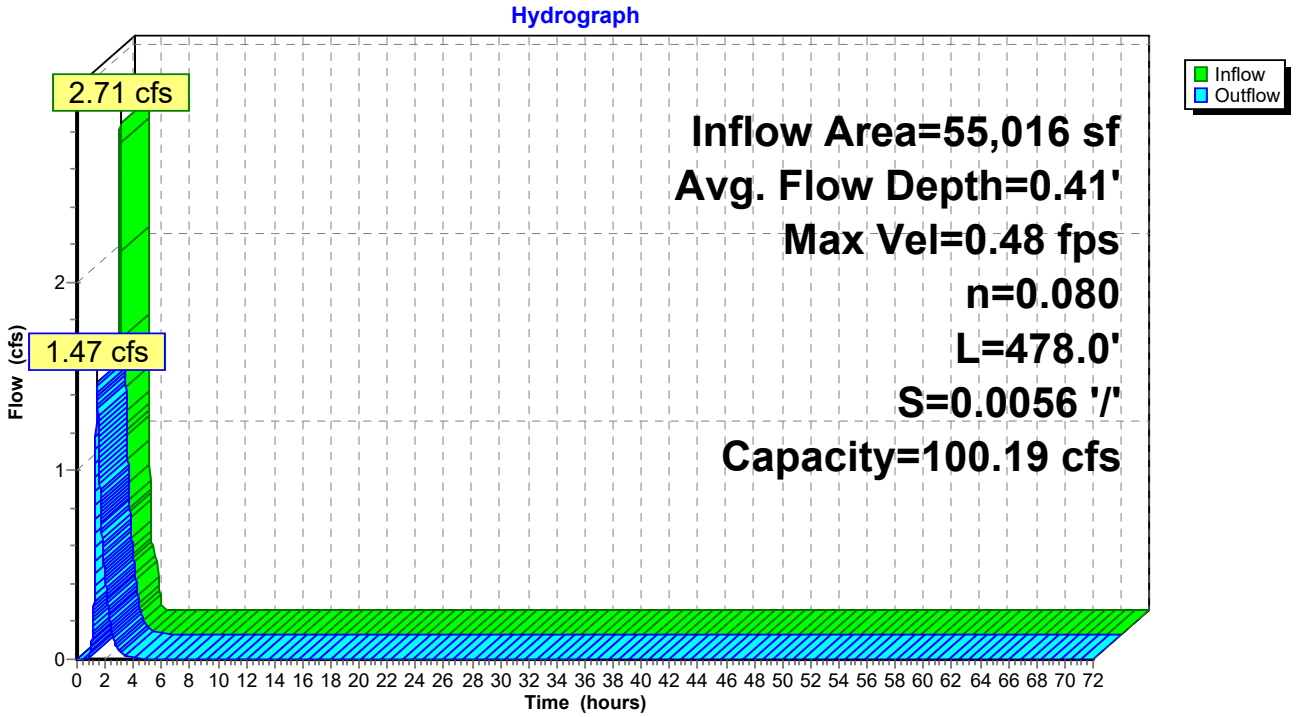
Peak Storage= 1,449 cf @ 1.12 hrs
Average Depth at Peak Storage= 0.41' , Surface Width= 14.77'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 100.19 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 478.0' Slope= 0.0056 '/'
Inlet Invert= 162.20', Outlet Invert= 159.50'



‡

Reach 35R: DA2A West Swale



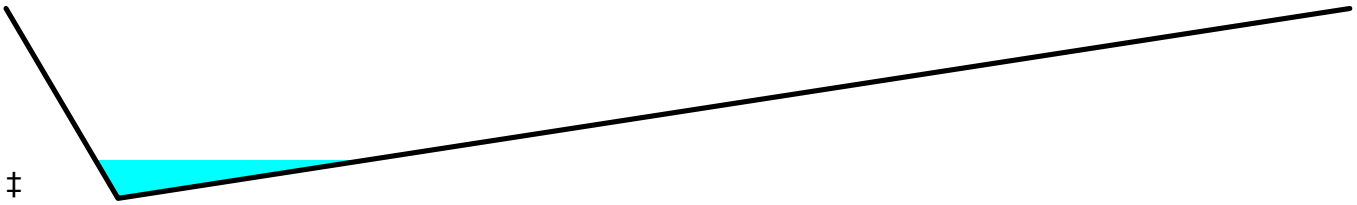
Summary for Reach 36R: DA2A East Swale

Inflow Area = 51,183 sf, 71.06% Impervious, Inflow Depth = 0.74" for NJDEP_WQDS event
Inflow = 2.55 cfs @ 1.09 hrs, Volume= 3,136 cf
Outflow = 2.44 cfs @ 1.15 hrs, Volume= 3,136 cf, Atten= 4%, Lag= 4.0 min
Routed to Pond 26P : Basin 2A Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.83 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 0.29 fps, Avg. Travel Time= 8.4 min

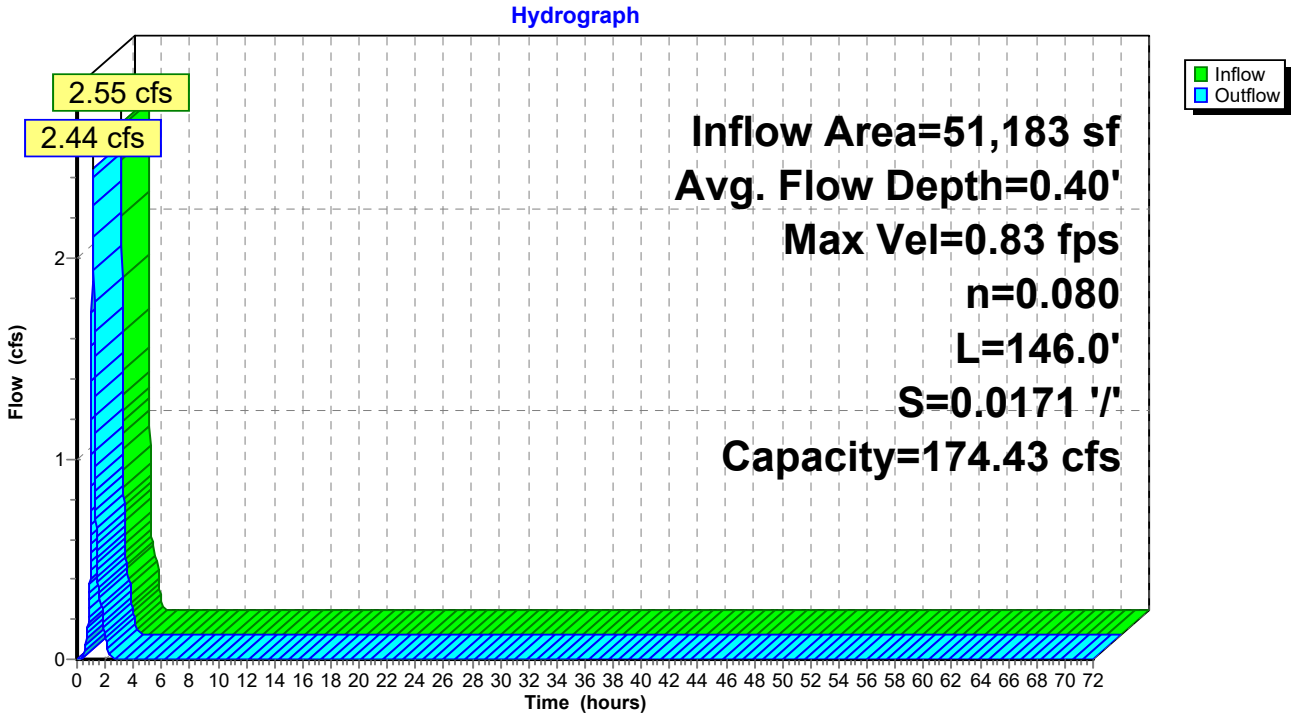
Peak Storage= 428 cf @ 1.10 hrs
Average Depth at Peak Storage= 0.40' , Surface Width= 14.53'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 174.43 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 146.0' Slope= 0.0171 '/'
Inlet Invert= 162.00', Outlet Invert= 159.50'



‡

Reach 36R: DA2A East Swale



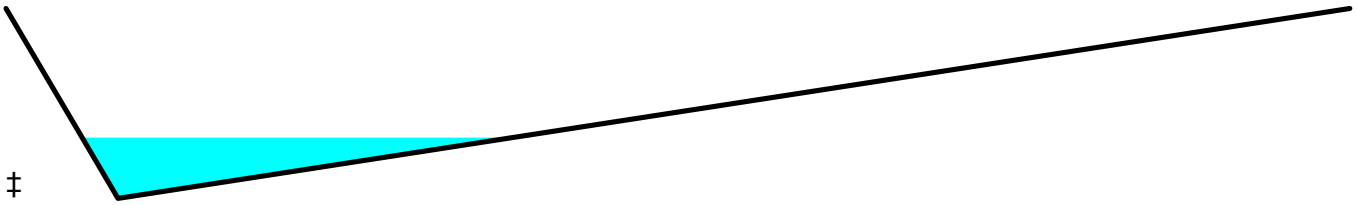
Summary for Reach 37R: DA1B Swale

Inflow Area = 104,152 sf, 91.22% Impervious, Inflow Depth = 0.94" for NJDEP_WQDS event
Inflow = 6.69 cfs @ 1.09 hrs, Volume= 8,191 cf
Outflow = 4.62 cfs @ 1.30 hrs, Volume= 8,191 cf, Atten= 31%, Lag= 12.7 min
Routed to Pond 18P : Basin 1B Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.63 fps, Min. Travel Time= 10.2 min
Avg. Velocity = 0.13 fps, Avg. Travel Time= 50.0 min

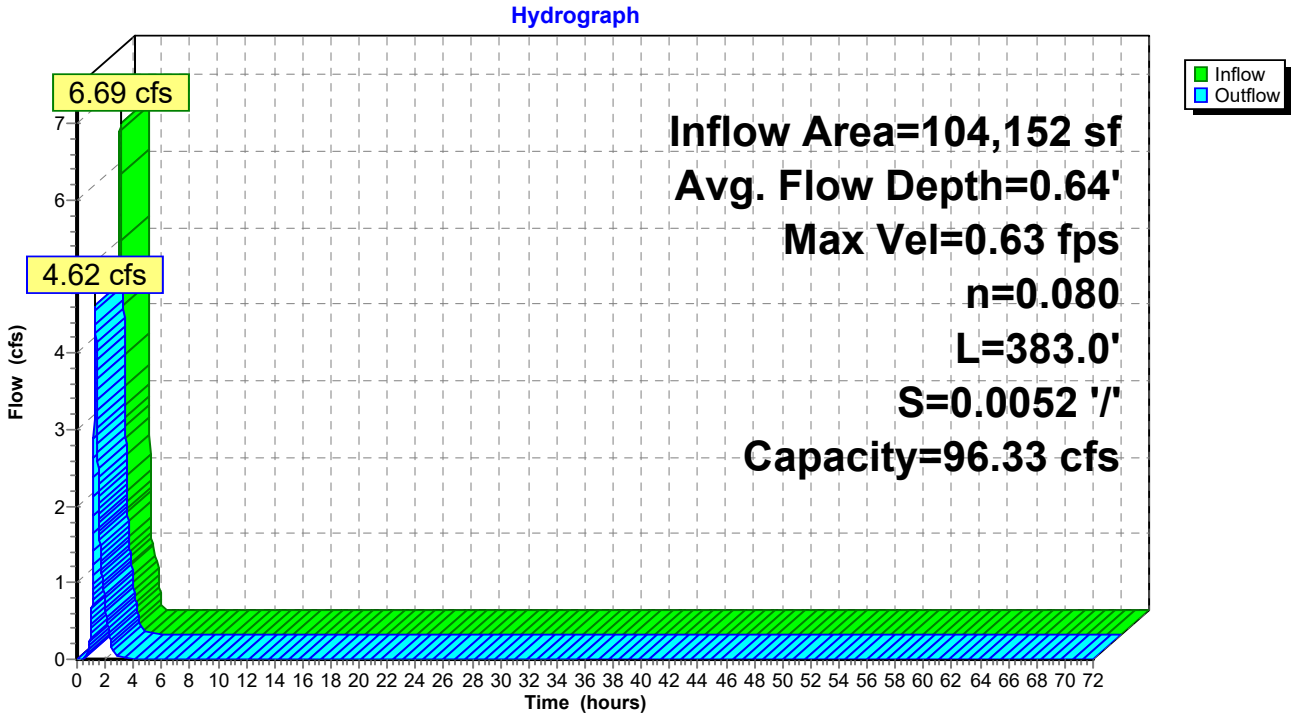
Peak Storage= 2,826 cf @ 1.13 hrs
Average Depth at Peak Storage= 0.64' , Surface Width= 23.05'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 96.33 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 383.0' Slope= 0.0052 '/'
Inlet Invert= 162.00', Outlet Invert= 160.00'



‡

Reach 37R: DA1B Swale



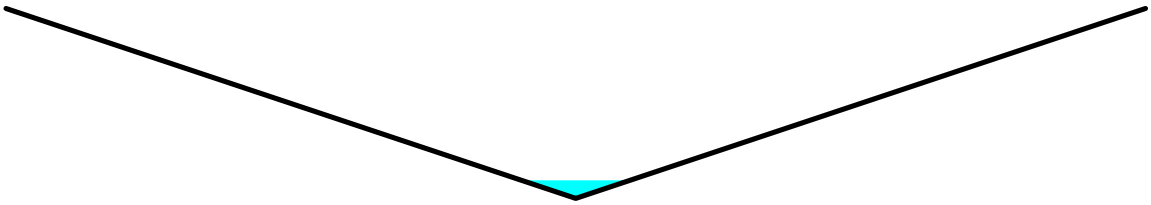
Summary for Reach 38R: DA3 Swale

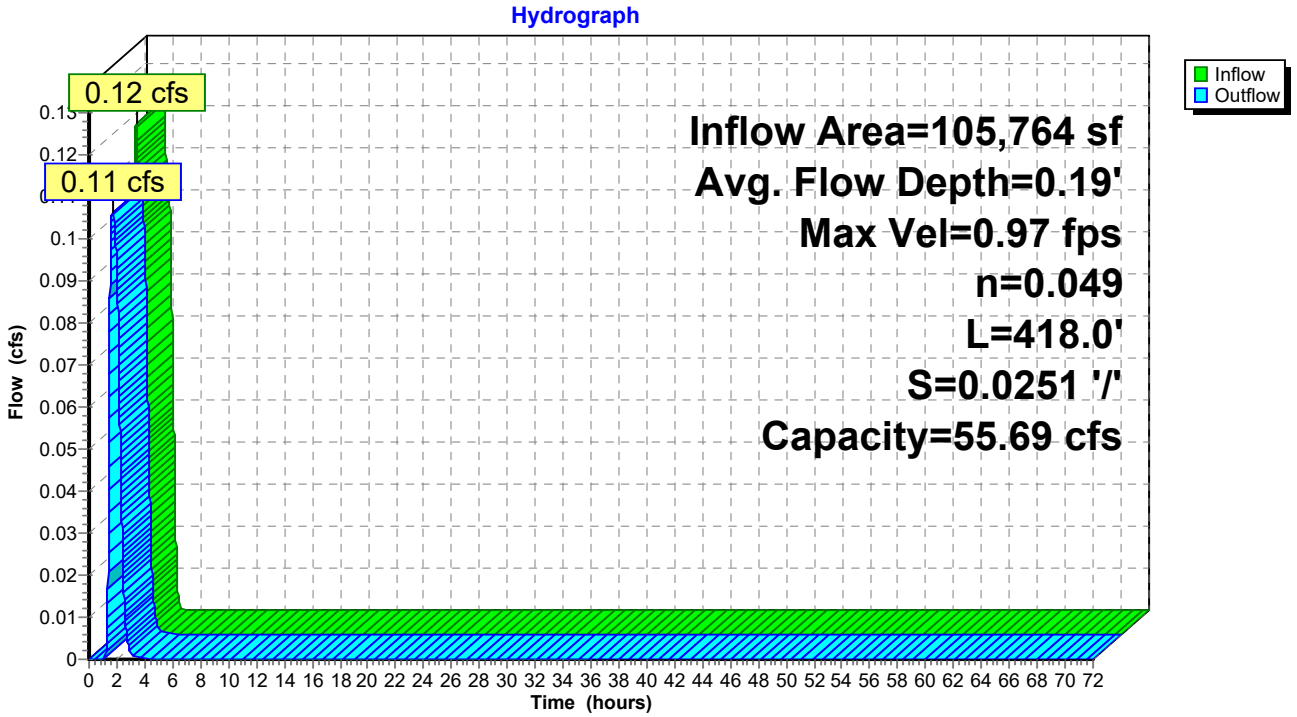
Inflow Area = 105,764 sf, 0.00% Impervious, Inflow Depth = 0.04" for NJDEP_WQDS event
Inflow = 0.12 cfs @ 1.37 hrs, Volume= 317 cf
Outflow = 0.11 cfs @ 1.66 hrs, Volume= 317 cf, Atten= 13%, Lag= 17.5 min
Routed to Pond 38P : Basin 3 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.97 fps, Min. Travel Time= 7.2 min
Avg. Velocity = 0.47 fps, Avg. Travel Time= 14.9 min

Peak Storage= 46 cf @ 1.54 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 1.14'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 55.69 cfs

0.00' x 2.00' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 418.0' Slope= 0.0251 '/'
Inlet Invert= 158.50', Outlet Invert= 148.00'





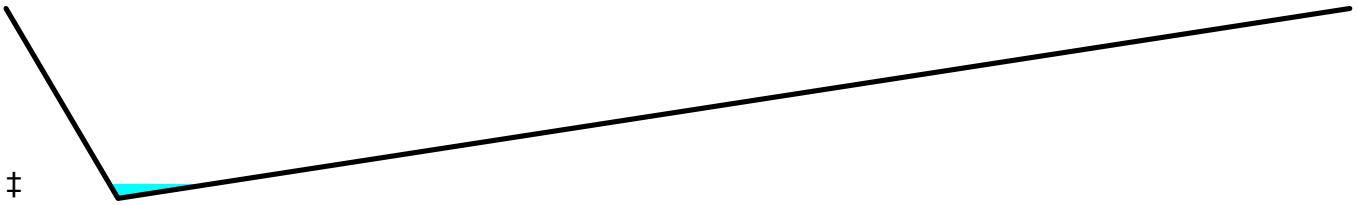
Summary for Reach 39R: DA 1A Central Swale A

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.25 cfs @ 1.19 hrs, Volume= 398 cf
Outflow = 0.10 cfs @ 1.99 hrs, Volume= 398 cf, Atten= 60%, Lag= 48.3 min
Routed to Reach 41R : DA 1A Central Swale B

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.24 fps, Min. Travel Time= 35.2 min
Avg. Velocity = 0.09 fps, Avg. Travel Time= 96.8 min

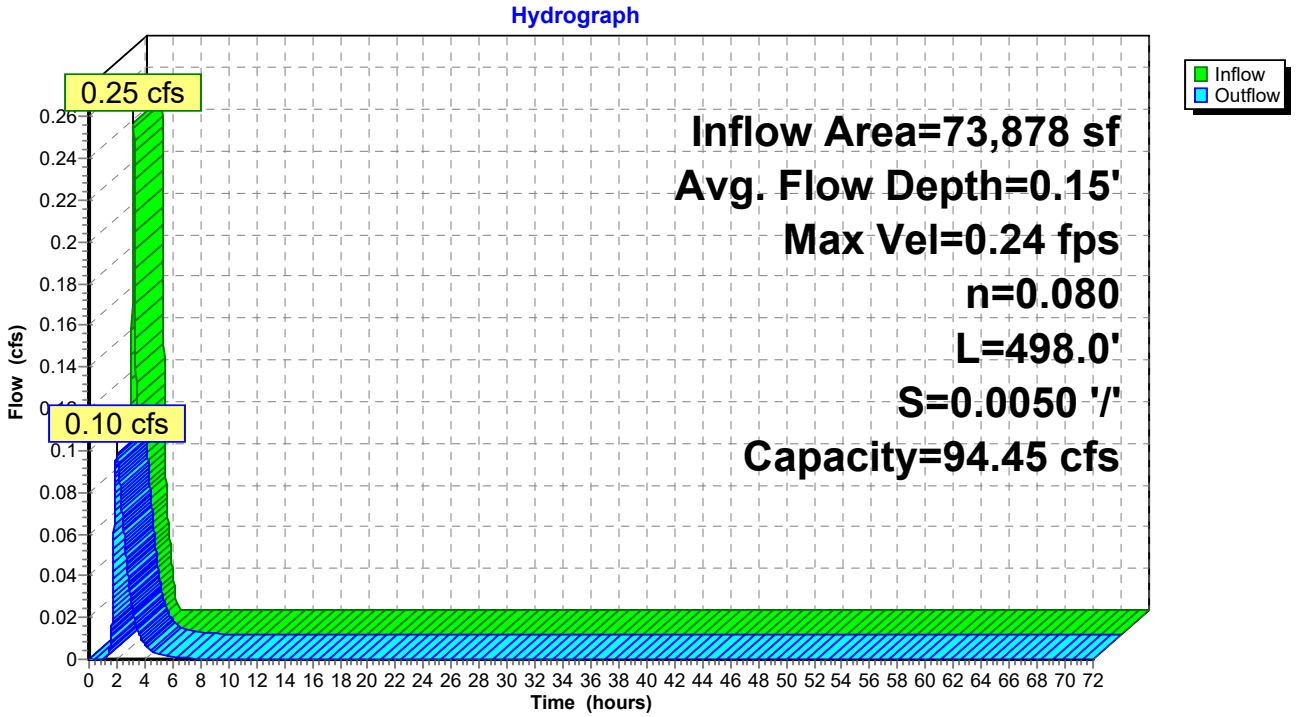
Peak Storage= 207 cf @ 1.41 hrs
Average Depth at Peak Storage= 0.15' , Surface Width= 5.45'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 94.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 33.0 '/' Top Width= 72.00'
Length= 498.0' Slope= 0.0050 '/'
Inlet Invert= 171.00', Outlet Invert= 168.50'



‡

Reach 39R: DA 1A Central Swale A



Summary for Reach 41R: DA 1A Central Swale B

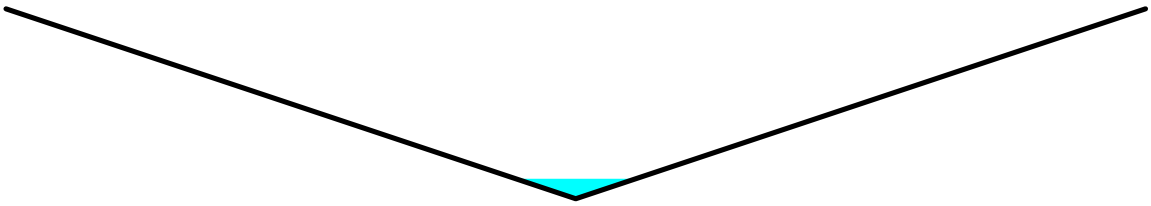
[62] Hint: Exceeded Reach 39R OUTLET depth by 0.10' @ 2.21 hrs

Inflow Area = 73,878 sf, 6.25% Impervious, Inflow Depth = 0.06" for NJDEP_WQDS event
Inflow = 0.10 cfs @ 1.99 hrs, Volume= 398 cf
Outflow = 0.10 cfs @ 2.14 hrs, Volume= 398 cf, Atten= 2%, Lag= 8.5 min
Routed to Reach 30R : DA1A West Swale

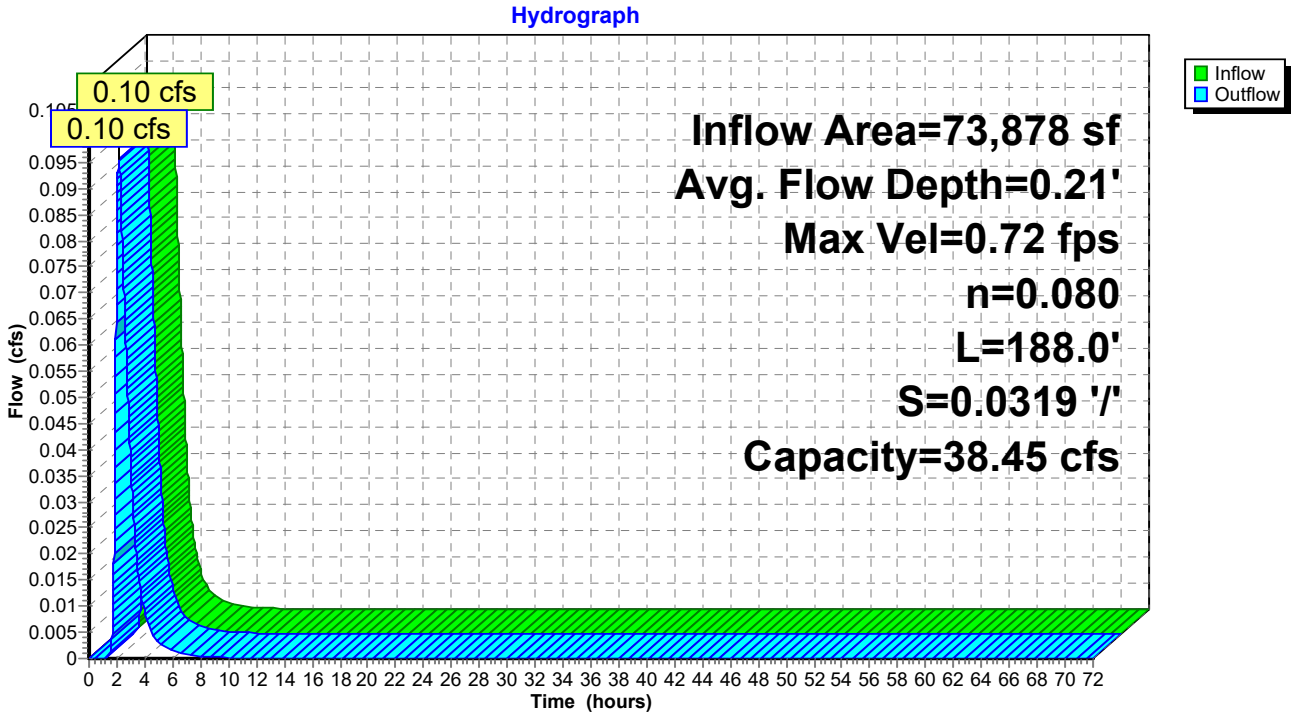
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.72 fps, Min. Travel Time= 4.4 min
Avg. Velocity = 0.25 fps, Avg. Travel Time= 12.3 min

Peak Storage= 25 cf @ 2.06 hrs
Average Depth at Peak Storage= 0.21' , Surface Width= 1.26'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 38.45 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 188.0' Slope= 0.0319 '/'
Inlet Invert= 168.50', Outlet Invert= 162.50'



Reach 41R: DA 1A Central Swale B



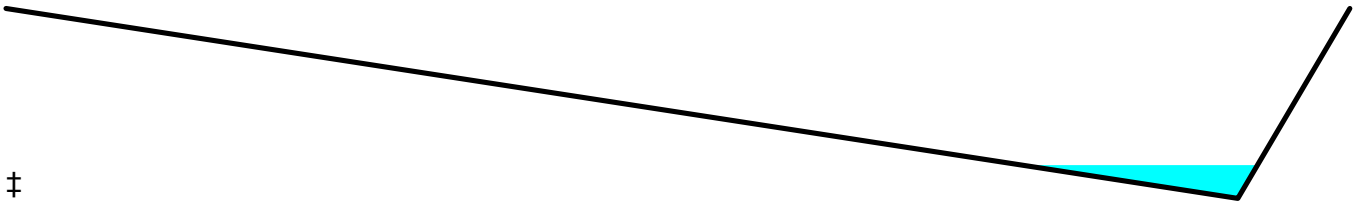
Summary for Reach 42R: DA4 East Swale

Inflow Area = 37,810 sf, 57.37% Impervious, Inflow Depth = 0.59" for NJDEP_WQDS event
Inflow = 1.53 cfs @ 1.09 hrs, Volume= 1,870 cf
Outflow = 1.47 cfs @ 1.15 hrs, Volume= 1,870 cf, Atten= 4%, Lag= 3.8 min
Routed to Pond 39P : Basin 4 Forebay

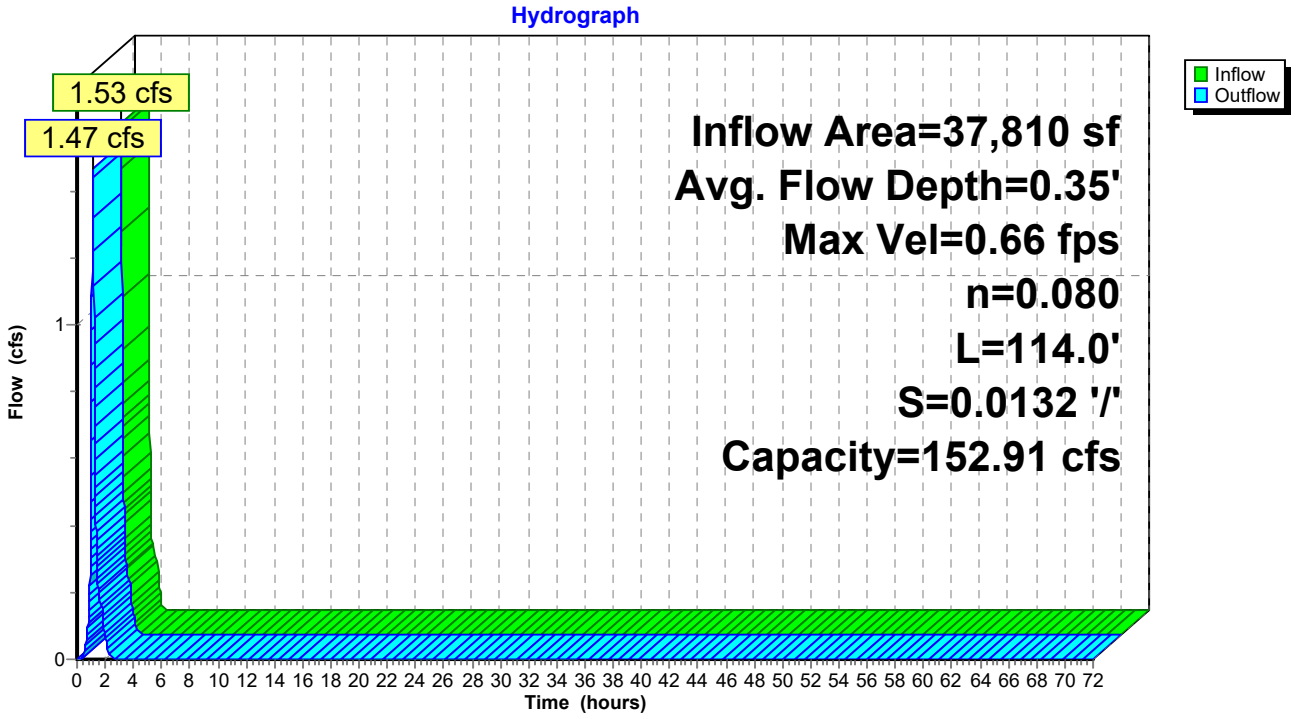
Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 0.66 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 0.24 fps, Avg. Travel Time= 7.8 min

Peak Storage= 251 cf @ 1.10 hrs
Average Depth at Peak Storage= 0.35' , Surface Width= 12.60'
Bank-Full Depth= 2.00' Flow Area= 72.0 sf, Capacity= 152.91 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 33.0 3.0 '/' Top Width= 72.00'
Length= 114.0' Slope= 0.0132 '/'
Inlet Invert= 159.50', Outlet Invert= 158.00'



‡



Summary for Reach 43R: DA4 Roadside swale

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 0.68" for NJDEP_WQDS event
Inflow = 2.05 cfs @ 1.32 hrs, Volume= 3,962 cf
Outflow = 2.03 cfs @ 1.35 hrs, Volume= 3,962 cf, Atten= 1%, Lag= 1.7 min
Routed to Reach 44R : DA4 Culvert

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 1.79 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 0.46 fps, Avg. Travel Time= 3.8 min

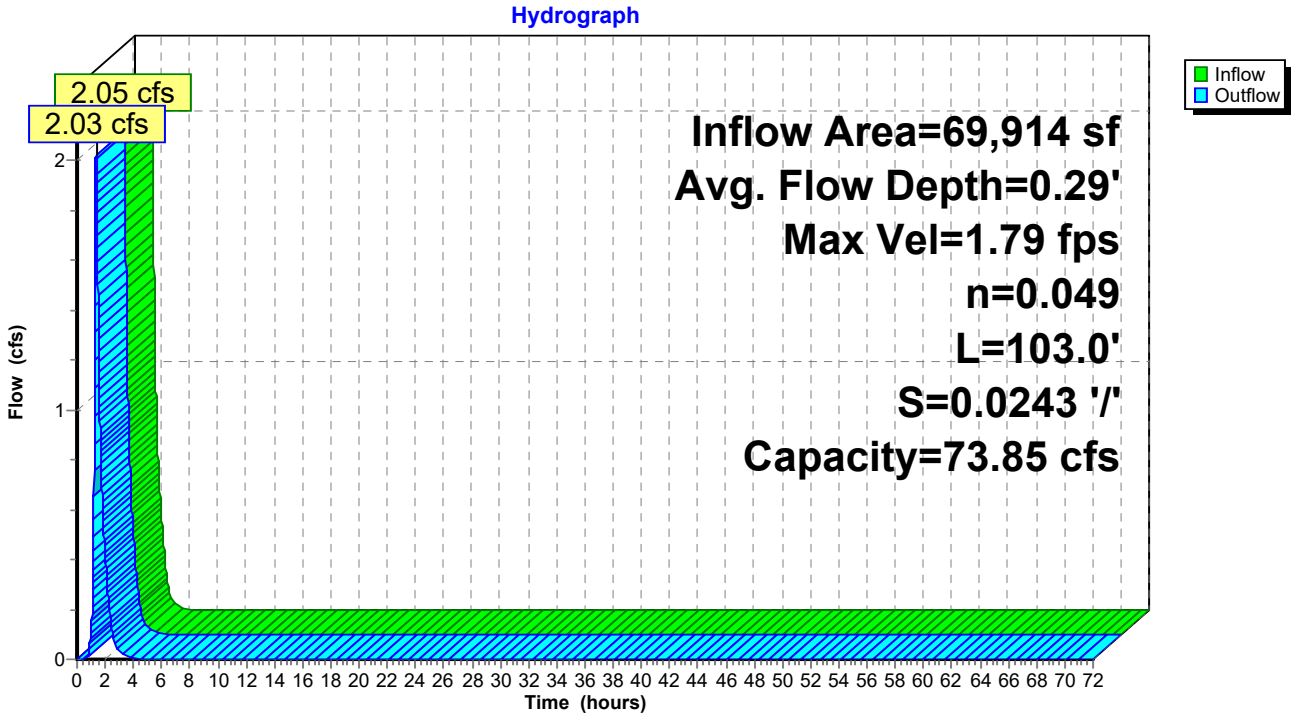
Peak Storage= 117 cf @ 1.33 hrs
Average Depth at Peak Storage= 0.29' , Surface Width= 4.75'
Bank-Full Depth= 1.80' Flow Area= 15.1 sf, Capacity= 73.85 cfs

3.00' x 1.80' deep channel, n= 0.049
Side Slope Z-value= 3.0 '/' Top Width= 13.80'
Length= 103.0' Slope= 0.0243 '/'
Inlet Invert= 160.20', Outlet Invert= 157.70'



‡

Reach 43R: DA4 Roadside swale



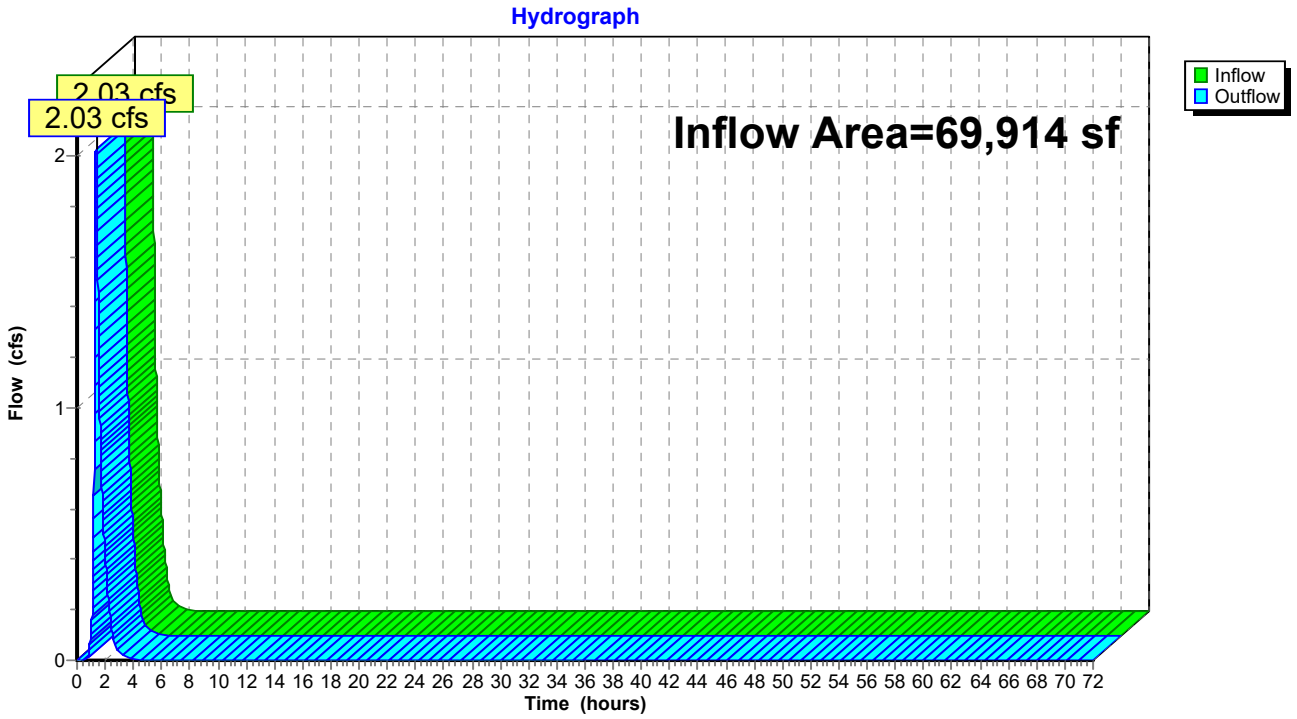
Summary for Reach 44R: DA4 Culvert

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 69,914 sf, 65.73% Impervious, Inflow Depth = 0.68" for NJDEP_WQDS event
Inflow = 2.03 cfs @ 1.35 hrs, Volume= 3,962 cf
Outflow = 2.03 cfs @ 1.35 hrs, Volume= 3,962 cf, Atten= 0%, Lag= 0.0 min
Routed to Pond 39P : Basin 4 Forebay

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach 44R: DA4 Culvert

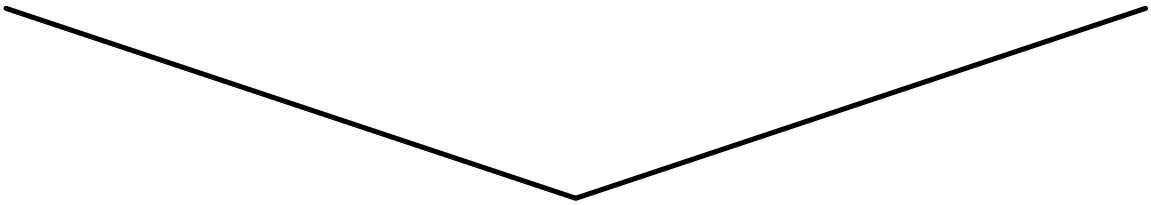


Summary for Reach 45R: DA2B Road Swale

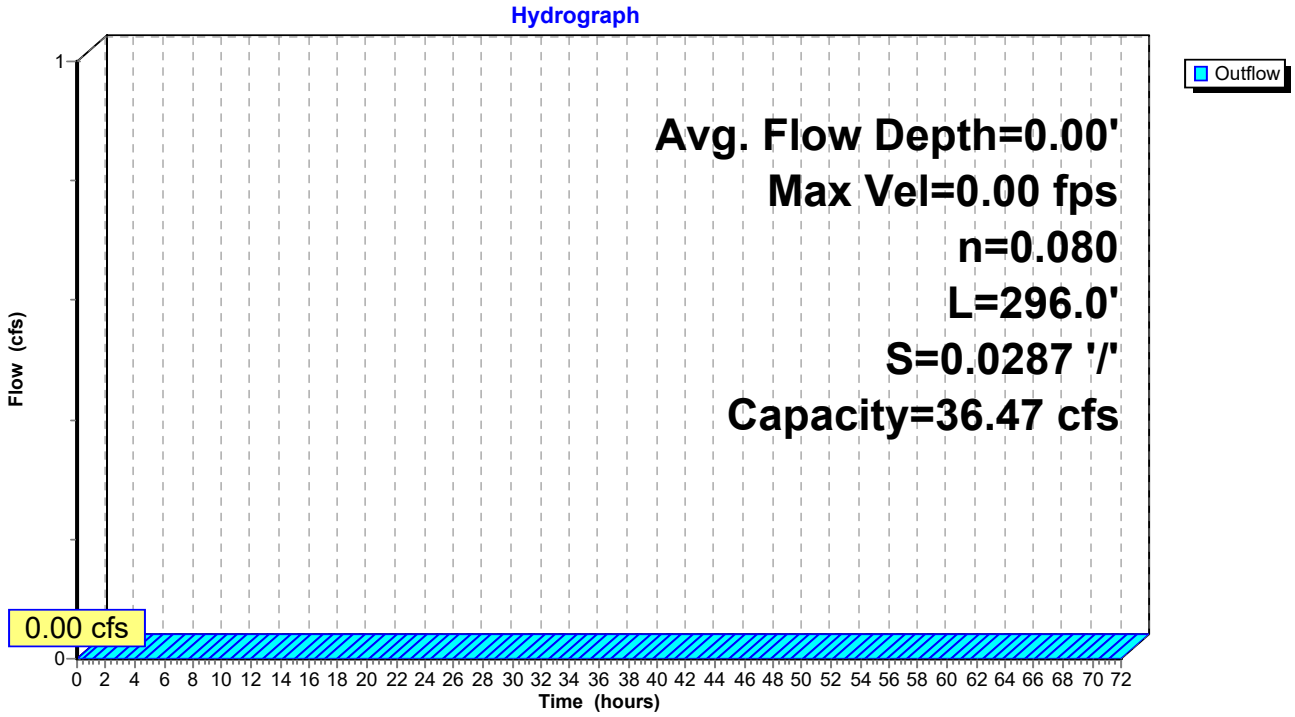
[43] Hint: Has no inflow (Outflow=Zero)

Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 36.47 cfs

0.00' x 2.00' deep channel, n= 0.080
Side Slope Z-value= 3.0 '/' Top Width= 12.00'
Length= 296.0' Slope= 0.0287 '/'
Inlet Invert= 171.00', Outlet Invert= 162.50'



Reach 45R: DA2B Road Swale



Summary for Pond 15P: Basin 1A Forebay

Inflow Area = 510,150 sf, 6.82% Impervious, Inflow Depth = 0.07" for NJDEP_WQDS event
Inflow = 0.51 cfs @ 2.14 hrs, Volume= 2,999 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 48P : Basin 1A Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.66' @ 72.00 hrs Surf.Area= 1,659 sf Storage= 2,999 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

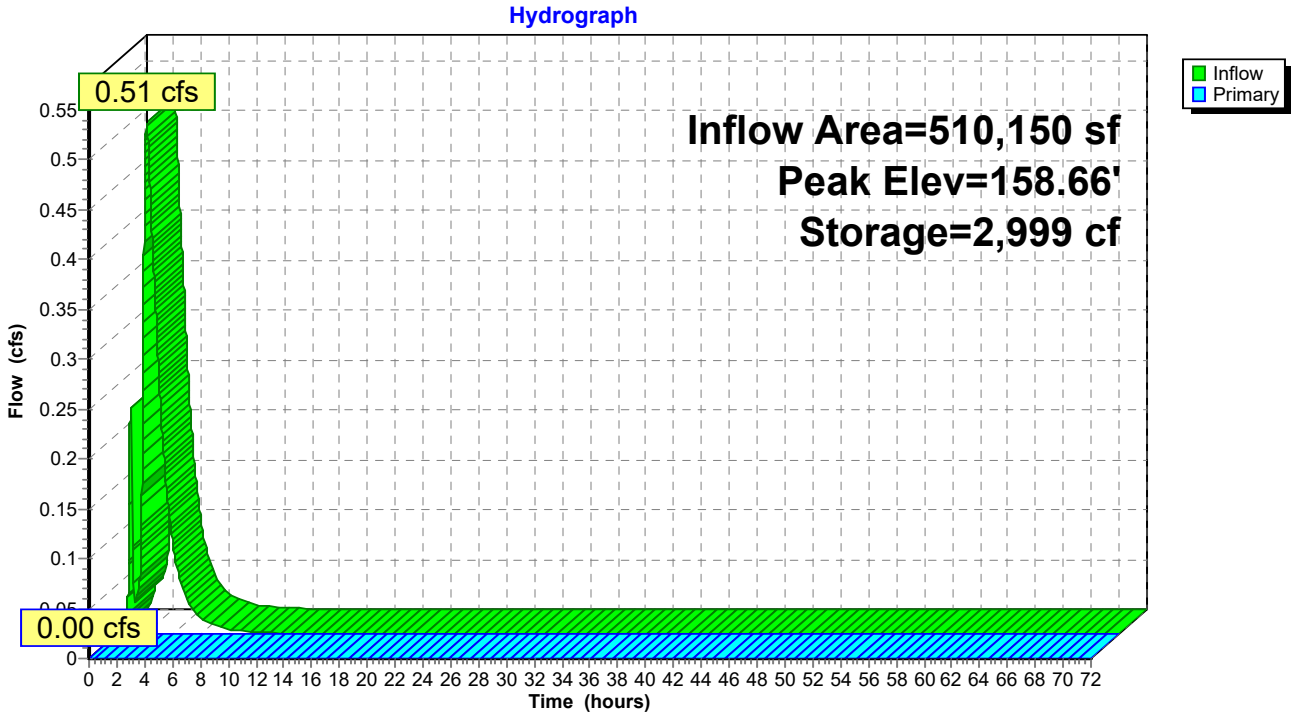
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	3,964 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	662	0	0
156.20	723	138	138
156.70	885	402	540
157.20	1,062	487	1,027
157.70	1,253	579	1,606
158.20	1,458	678	2,284
158.70	1,677	784	3,067
159.20	1,910	897	3,964

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.80'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf
#3	Primary	159.00'	**25.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**2=Culvert** (Controls 0.00 cfs)
└**1=Orifice/Grate** (Controls 0.00 cfs)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 15P: Basin 1A Forebay



Summary for Pond 18P: Basin 1B Forebay

Inflow Area = 114,201 sf, 89.03% Impervious, Inflow Depth = 0.92" for NJDEP_WQDS event
Inflow = 4.68 cfs @ 1.30 hrs, Volume= 8,765 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 43P : Basin 1B Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 158.24' @ 46.11 hrs Surf.Area= 4,705 sf Storage= 8,765 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	155.98'	18,291 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

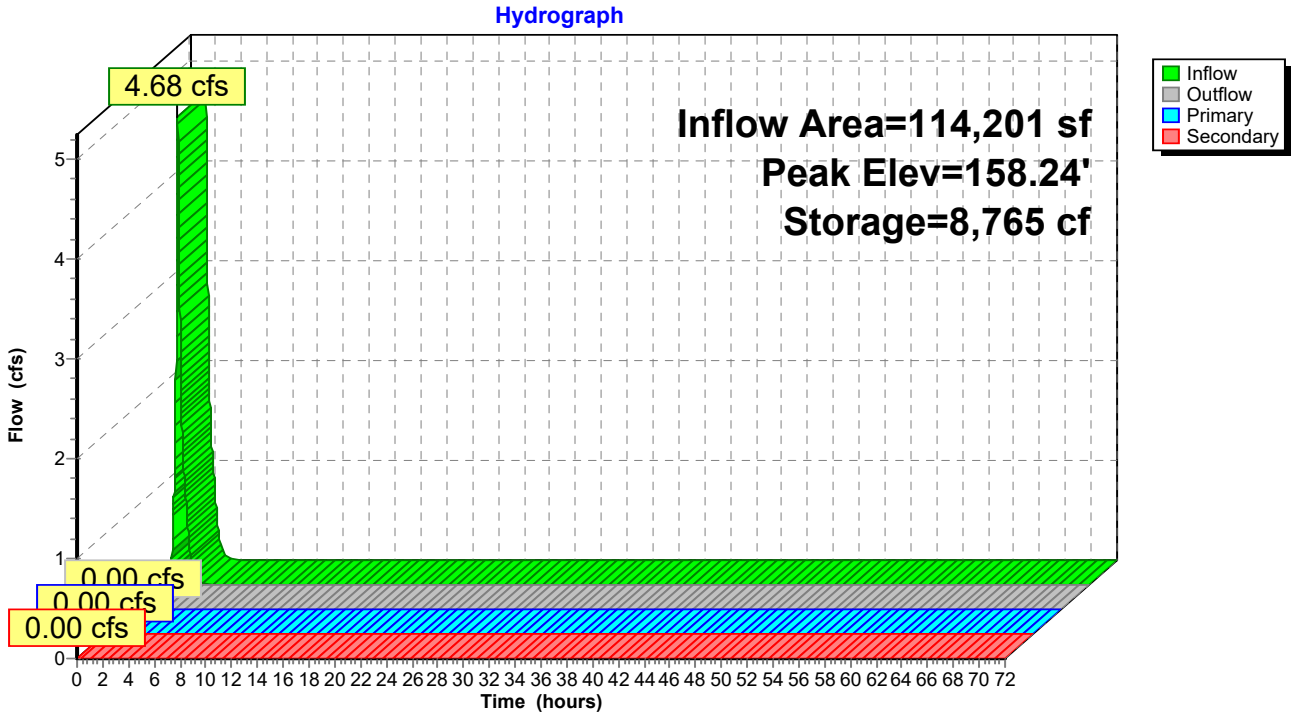
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.98	3,096	0	0
156.00	3,108	62	62
156.50	3,440	1,637	1,699
157.00	3,785	1,806	3,505
157.50	4,145	1,983	5,488
158.00	4,518	2,166	7,654
158.50	4,906	2,356	10,010
159.00	5,308	2,554	12,563
159.50	5,724	2,758	15,321
160.00	6,154	2,970	18,291

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	159.50'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
└**2=Culvert** (Controls 0.00 cfs)
└**1=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.98' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 18P: Basin 1B Forebay



Summary for Pond 26P: Basin 2A Forebay

Inflow Area = 114,388 sf, 72.58% Impervious, Inflow Depth = 0.75" for NJDEP_WQDS event
Inflow = 2.87 cfs @ 1.16 hrs, Volume= 7,158 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 44P : Basin 2A Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.68' @ 56.62 hrs Surf.Area= 4,898 sf Storage= 7,158 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	11,435 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

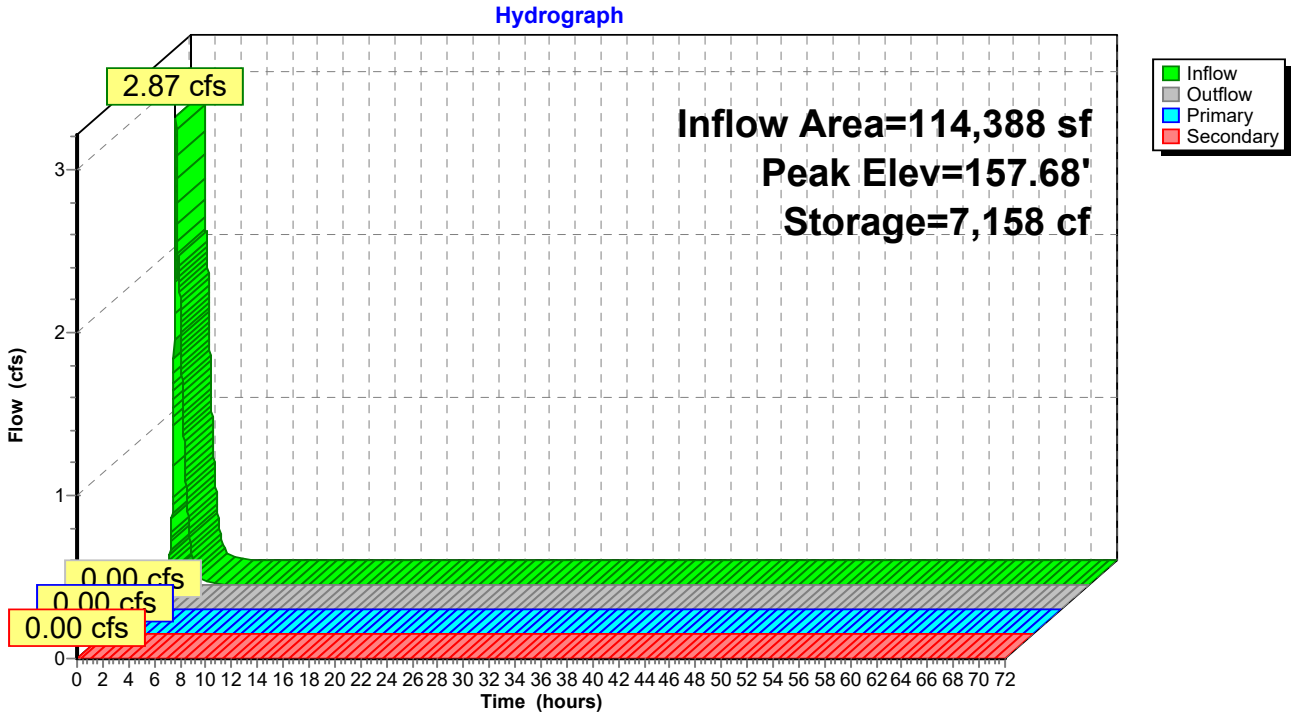
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	3,639	0	0
156.50	3,996	1,909	1,909
157.00	4,367	2,091	4,000
157.50	4,753	2,280	6,280
158.00	5,152	2,476	8,756
158.50	5,566	2,680	11,435

Device	Routing	Invert	Outlet Devices
#1	Secondary	158.30'	**20.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32
#2	Device 3	157.70'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Primary	156.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.00' S= 0.0417 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**3=Culvert** (Controls 0.00 cfs)
└**2=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
└**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 26P: Basin 2A Forebay



Summary for Pond 38P: Basin 3 Forebay

Inflow Area = 106,766 sf, 0.94% Impervious, Inflow Depth = 0.05" for NJDEP_WQDS event
Inflow = 0.11 cfs @ 1.66 hrs, Volume= 403 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 60P : Basin 3 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 144.13' @ 15.96 hrs Surf.Area= 3,202 sf Storage= 403 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	144.00'	18,417 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

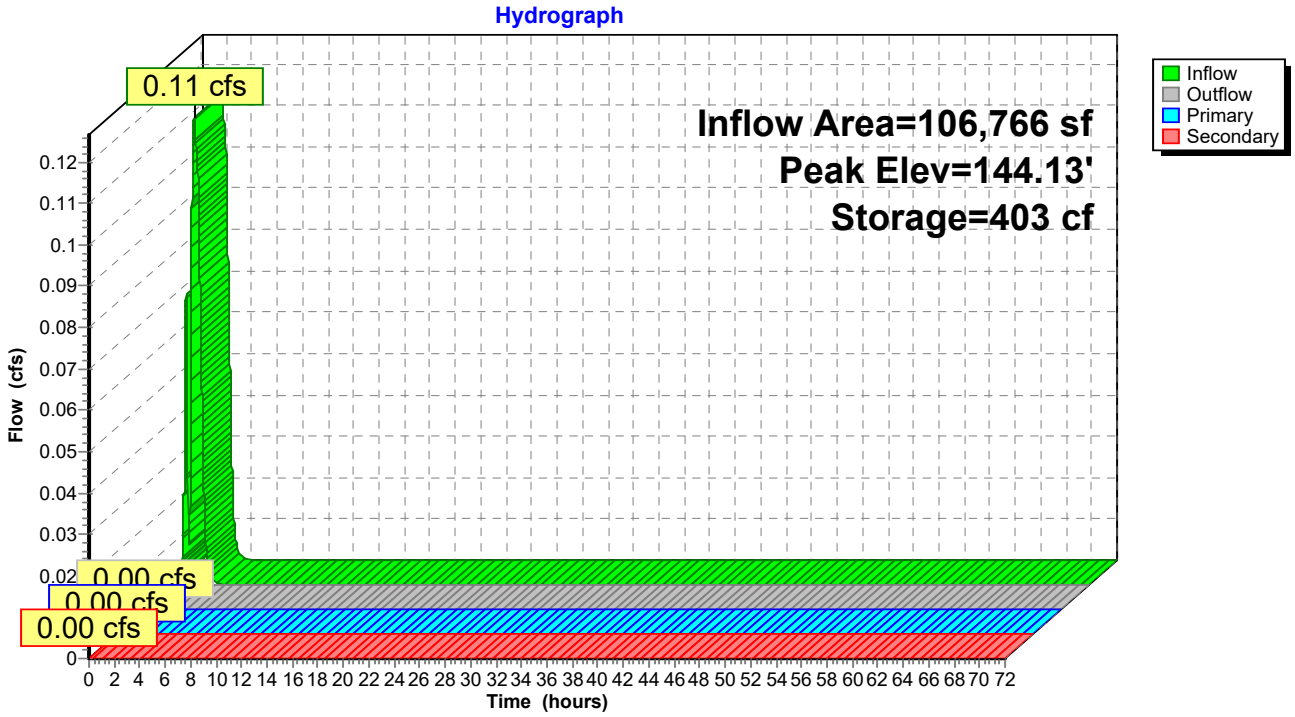
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
144.00	3,115	0	0
144.50	3,456	1,643	1,643
145.00	3,812	1,817	3,460
145.50	4,182	1,999	5,458
146.00	4,565	2,187	7,645
146.50	4,963	2,382	10,027
147.00	5,375	2,585	12,612
147.50	5,802	2,794	15,406
148.00	6,242	3,011	18,417

Device	Routing	Invert	Outlet Devices
#1	Device 2	145.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	144.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 144.00' / 143.50' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Secondary	146.30'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
└**2=Culvert** (Controls 0.00 cfs)
└**1=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=144.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 38P: Basin 3 Forebay



Summary for Pond 39P: Basin 4 Forebay

Inflow Area = 112,908 sf, 64.51% Impervious, Inflow Depth = 0.67" for NJDEP_WQDS event
Inflow = 2.46 cfs @ 1.34 hrs, Volume= 6,279 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 51P : Basin 4 Bioretention
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.23' @ 49.25 hrs Surf.Area= 3,547 sf Storage= 6,279 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	155.00'	15,703 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

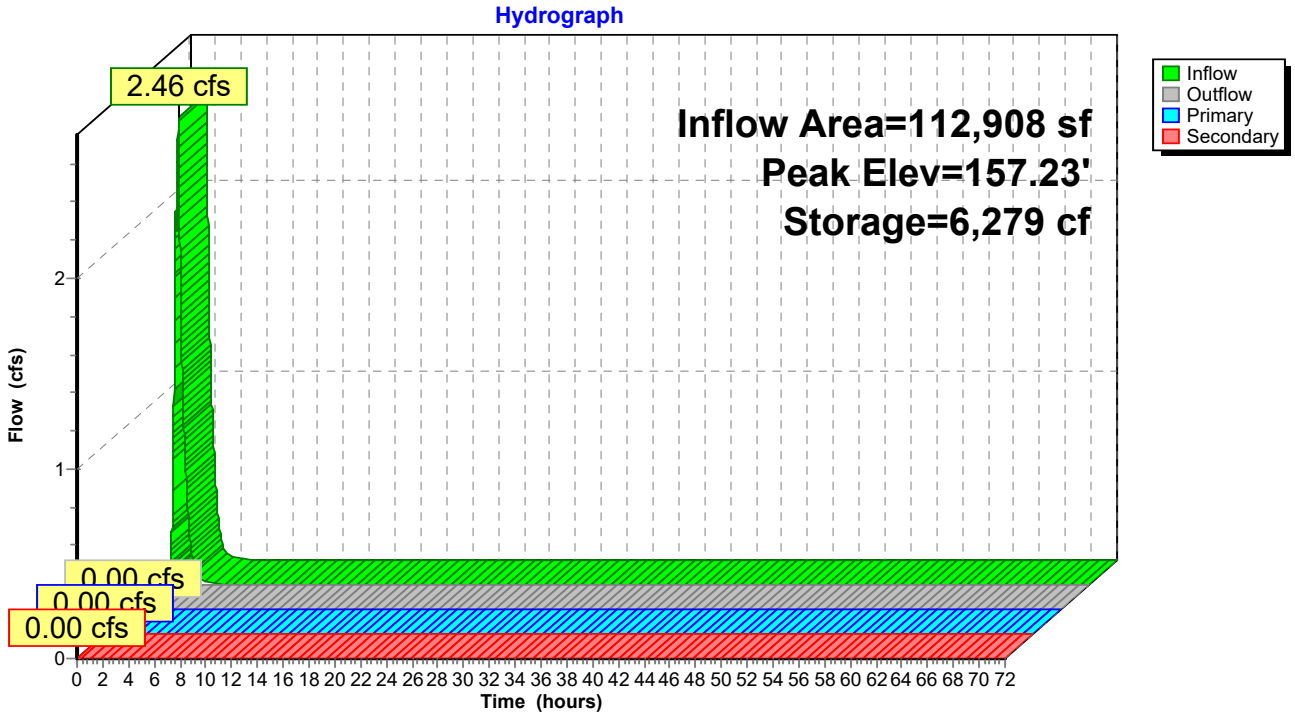
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
155.00	2,116	0	0
155.40	2,360	895	895
155.90	2,665	1,256	2,151
156.40	2,983	1,412	3,563
156.90	3,316	1,575	5,138
157.40	3,663	1,745	6,883
157.50	3,734	370	7,253
157.90	4,024	1,552	8,804
158.40	4,400	2,106	10,910
158.90	4,789	2,297	13,208
159.40	5,192	2,495	15,703

Device	Routing	Invert	Outlet Devices
#1	Primary	155.00'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 155.00' / 154.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	158.00'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	158.90'	**10.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└**1=Culvert** (Controls 0.00 cfs)
└**2=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=155.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 39P: Basin 4 Forebay



Summary for Pond 43P: Basin 1B Bioretention

Inflow Area = 126,097 sf, 87.23% Impervious, Inflow Depth = 0.07" for NJDEP_WQDS event
Inflow = 0.59 cfs @ 1.07 hrs, Volume= 717 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 46P : Basin 1B Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.15' @ 2.01 hrs Surf.Area= 4,330 sf Storage= 717 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

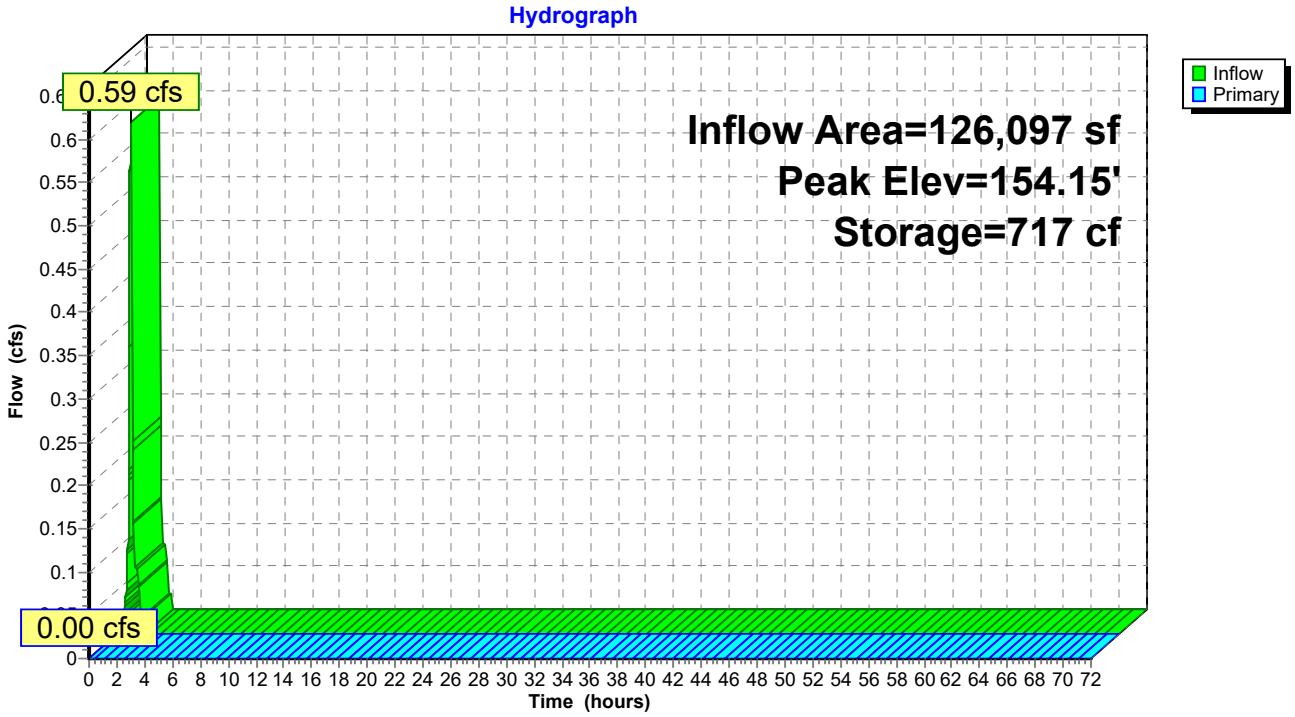
Volume	Invert	Avail.Storage	Storage Description
#1	153.98'	24,528 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.98	4,198	0	0
154.00	4,213	84	84
154.50	4,608	2,205	2,289
155.00	5,017	2,406	4,696
155.50	5,440	2,614	7,310
156.00	5,877	2,829	10,139
156.50	6,328	3,051	13,190
157.00	6,793	3,280	16,471
157.50	7,272	3,516	19,987
158.00	7,768	3,760	23,747
158.10	7,850	781	24,528

Device	Routing	Invert	Outlet Devices
#1	Device 2	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	154.00'	**24.0" Round Culvert** L= 32.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 152.00' S= 0.0625 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=153.98' (Free Discharge)
↑**2=Culvert** (Controls 0.00 cfs)
↑**1=Orifice/Grate** (Controls 0.00 cfs)

Pond 43P: Basin 1B Bioretention



Summary for Pond 44P: Basin 2A Bioretention

Inflow Area = 127,935 sf, 75.49% Impervious, Inflow Depth = 0.11" for NJDEP_WQDS event
Inflow = 0.96 cfs @ 1.07 hrs, Volume= 1,168 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 45P : Basin 2A Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 154.24' @ 2.01 hrs Surf.Area= 4,928 sf Storage= 1,168 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

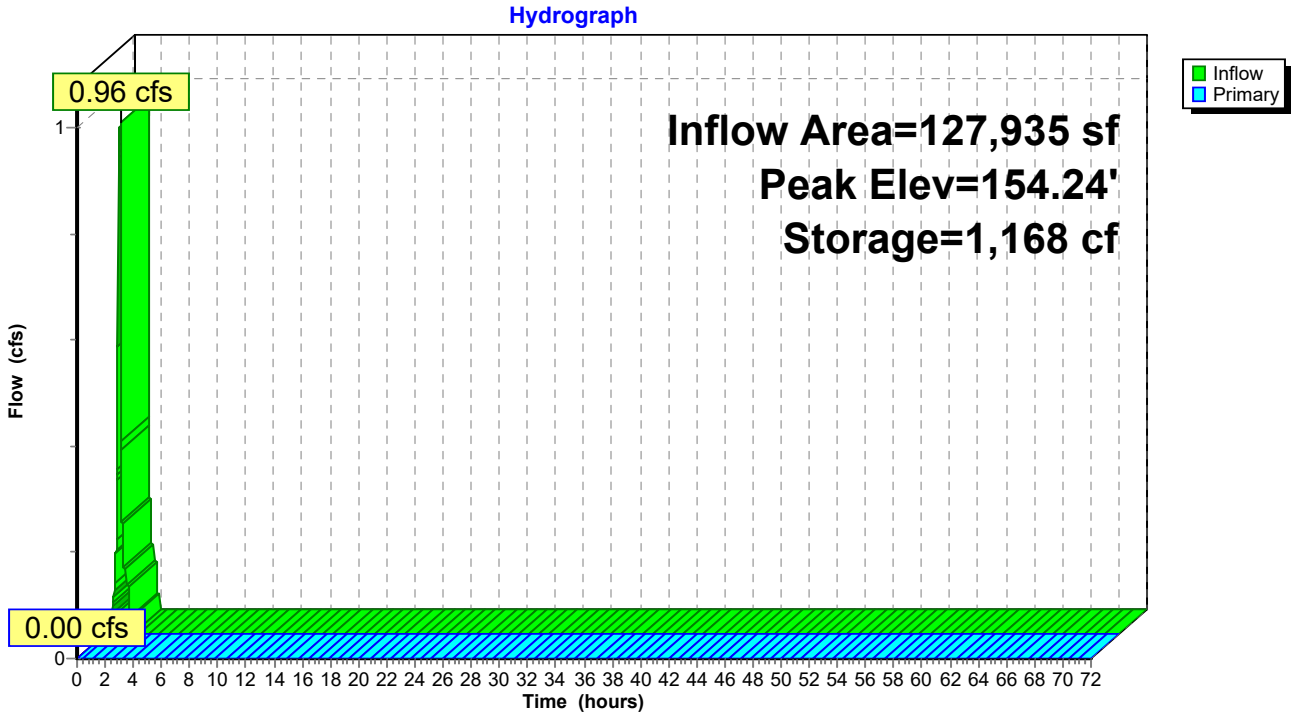
Volume	Invert	Avail.Storage	Storage Description
#1	154.00'	27,017 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
154.00	4,692	0	0
154.50	5,178	2,468	2,468
155.00	5,678	2,714	5,182
155.50	6,192	2,968	8,149
156.00	6,718	3,228	11,377
156.50	7,258	3,494	14,871
157.00	7,810	3,767	18,638
157.50	8,376	4,047	22,684
158.00	8,955	4,333	27,017

Device	Routing	Invert	Outlet Devices
#1	Primary	154.00'	**18.0" Round Culvert** L= 24.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 154.00' / 153.00' S= 0.0417 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Device 1	157.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=154.00' (Free Discharge)
↑**1=Culvert** (Controls 0.00 cfs)
↑**2=Orifice/Grate** (Controls 0.00 cfs)

Pond 44P: Basin 2A Bioretention



Summary for Pond 45P: Basin 2A Infiltration

Inflow Area = 177,071 sf, 82.29% Impervious, Inflow Depth = 0.29" for NJDEP_WQDS event
Inflow = 3.49 cfs @ 1.07 hrs, Volume= 4,236 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 150.77' @ 2.01 hrs Surf.Area= 17,926 sf Storage= 4,226 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

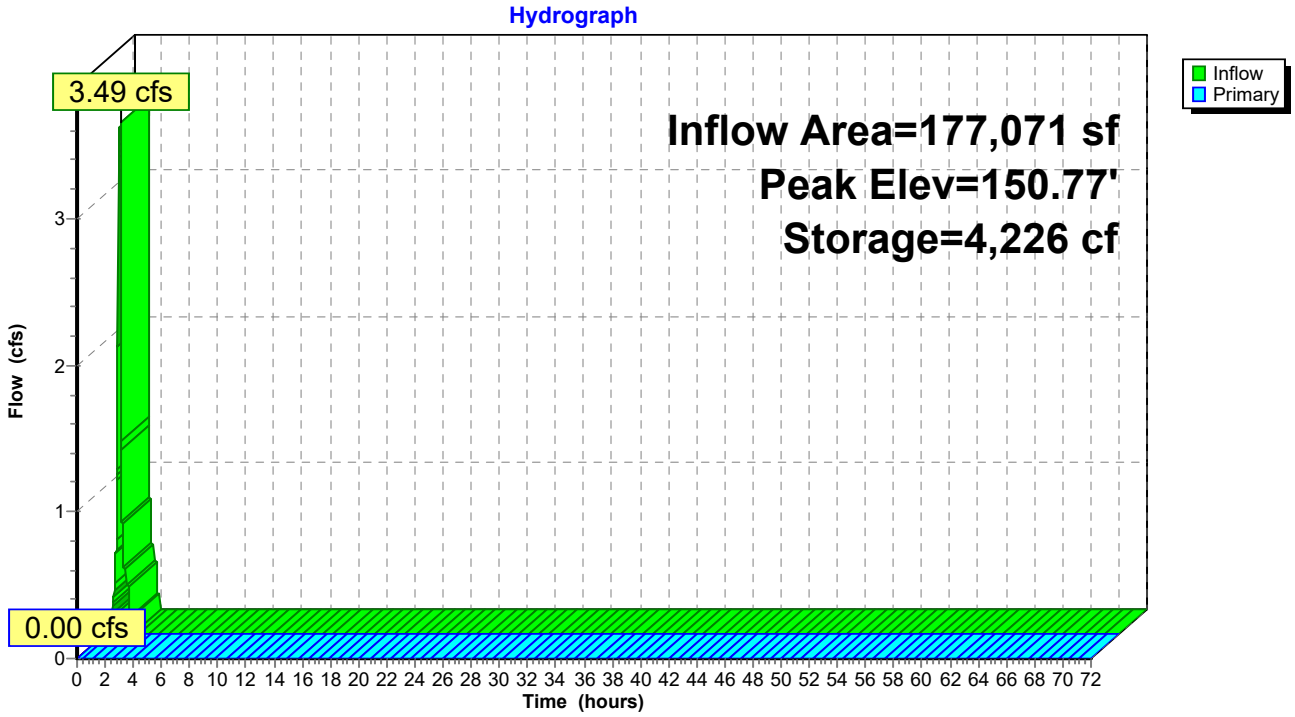
Volume	Invert	Avail.Storage	Storage Description
#1	150.50'	211,473 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.50	13,884	0	0
151.00	21,491	8,844	8,844
151.50	22,475	10,992	19,835
152.00	23,686	11,540	31,376
152.50	24,504	12,048	43,423
153.00	25,550	12,514	55,937
153.50	26,612	13,041	68,977
154.00	27,691	13,576	82,553
154.50	28,785	14,119	96,672
155.00	29,903	14,672	111,344
155.50	31,034	15,234	126,578
156.00	32,184	15,805	142,383
156.50	33,348	16,383	158,766
157.00	34,530	16,970	175,735
157.50	35,731	17,565	193,300
158.00	36,958	18,172	211,473

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.50' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 45P: Basin 2A Infiltration



Summary for Pond 46P: Basin 1B Infiltration

Inflow Area = 156,153 sf, 89.68% Impervious, Inflow Depth = 0.20" for NJDEP_WQDS event
Inflow = 2.14 cfs @ 1.07 hrs, Volume= 2,591 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 148.14' @ 2.01 hrs Surf.Area= 15,912 sf Storage= 2,591 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

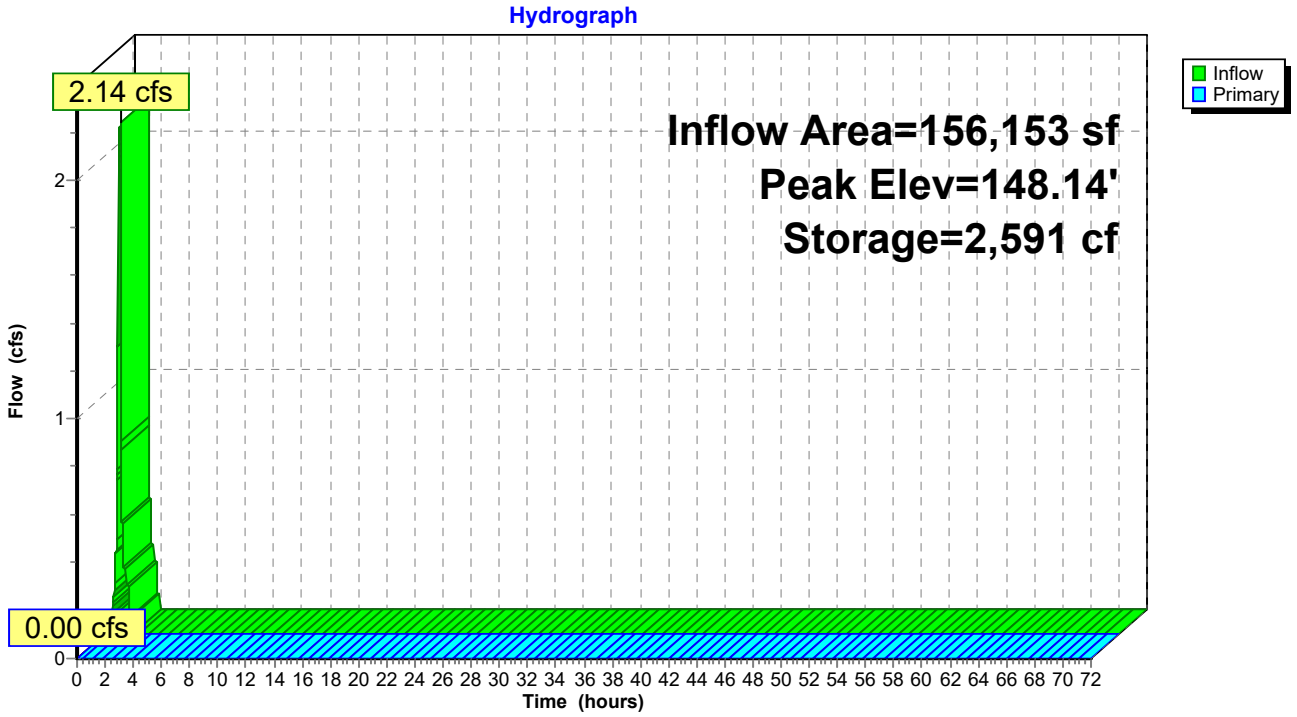
Volume	Invert	Avail.Storage	Storage Description
#1	147.98'	135,038 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.98	15,656	0	0
148.40	16,310	6,713	6,713
148.90	17,103	8,353	15,066
149.40	17,911	8,754	23,820
149.90	18,735	9,162	32,981
150.40	19,574	9,577	42,558
150.90	20,428	10,001	52,559
151.40	21,297	10,431	62,990
151.90	22,181	10,870	73,860
152.40	23,080	11,315	85,175
152.90	23,993	11,768	96,943
153.40	24,920	12,228	109,171
153.90	25,863	12,696	121,867
154.40	26,819	13,171	135,038

Device	Routing	Invert	Outlet Devices
#1	Primary	153.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.98' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 46P: Basin 1B Infiltration



Summary for Pond 48P: Basin 1A Infiltration Basin

Inflow Area = 562,771 sf, 15.53% Impervious, Inflow Depth = 0.10" for NJDEP_WQDS event
Inflow = 3.74 cfs @ 1.07 hrs, Volume= 4,537 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 150.21' @ 2.01 hrs Surf.Area= 22,249 sf Storage= 4,536 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

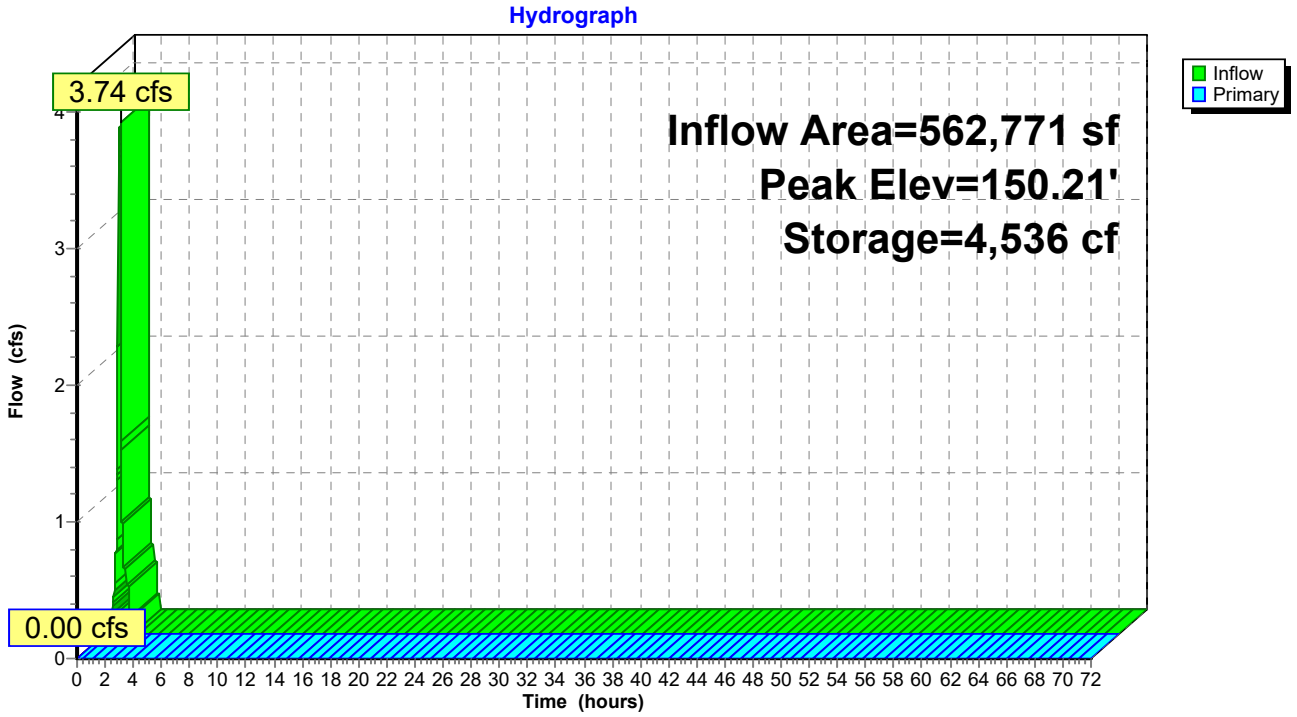
Volume	Invert	Avail.Storage	Storage Description
#1	150.00'	298,930 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
150.00	21,799	0	0
150.20	22,236	4,403	4,403
150.70	23,295	11,383	15,786
151.20	24,380	11,919	27,705
151.70	25,491	12,468	40,173
152.20	26,624	13,029	53,201
152.70	27,774	13,600	66,801
153.20	28,940	14,179	80,979
153.70	30,120	14,765	95,744
154.20	31,316	15,359	111,103
154.70	32,526	15,961	127,064
155.20	33,749	16,569	143,633
155.70	34,987	17,184	160,817
156.20	36,240	17,807	178,623
156.70	37,506	18,437	197,060
157.20	38,786	19,073	216,133
157.70	40,081	19,717	235,850
158.20	41,390	20,368	256,217
158.70	42,718	21,027	277,244
159.20	44,026	21,686	298,930

Device	Routing	Invert	Outlet Devices
#1	Primary	157.90'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=150.00' (Free Discharge)
↑**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 48P: Basin 1A Infiltration Basin



Summary for Pond 51P: Basin 4 Bioretention

Inflow Area = 148,627 sf, 52.11% Impervious, Inflow Depth = 0.03" for NJDEP_WQDS event
Inflow = 0.33 cfs @ 1.07 hrs, Volume= 398 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 52P : Basin 4 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 153.13' @ 2.01 hrs Surf.Area= 2,977 sf Storage= 398 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

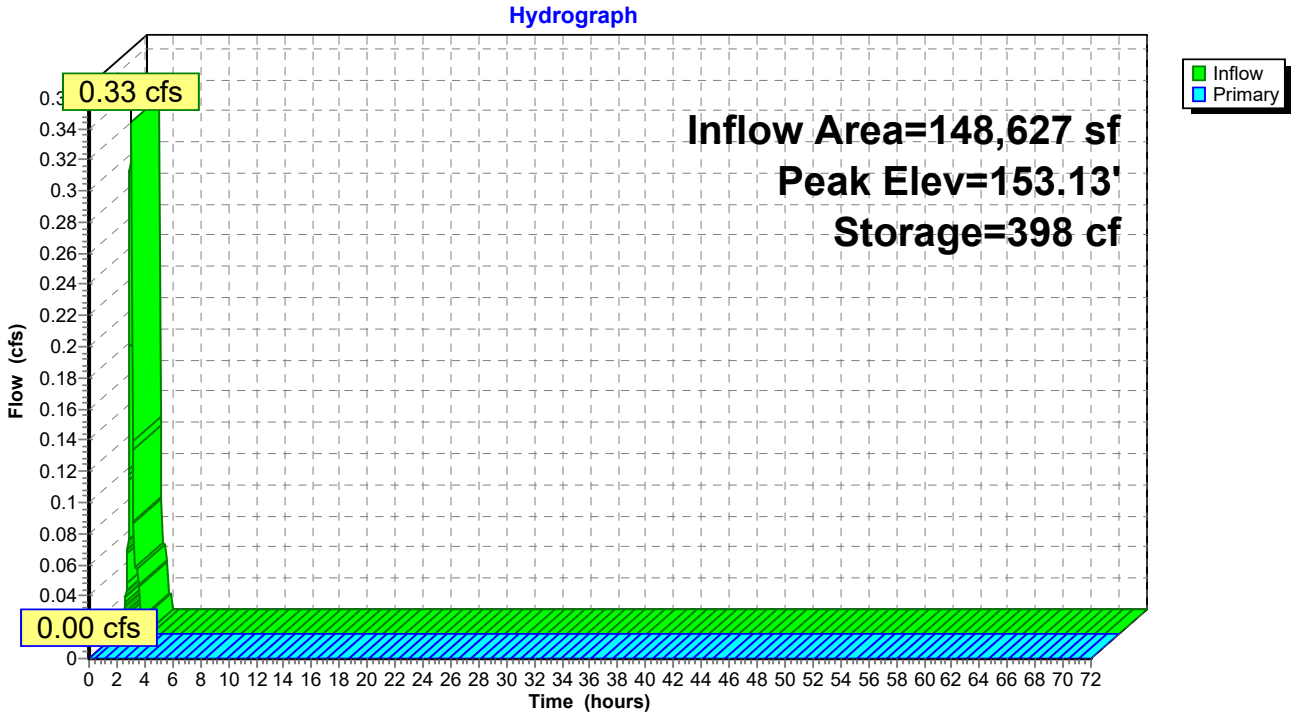
Volume	Invert	Avail.Storage	Storage Description
#1	153.00'	36,070 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
153.00	2,922	0	0
153.90	3,287	2,794	2,794
154.40	3,735	1,756	4,550
154.90	4,199	1,984	6,533
155.40	4,678	2,219	8,752
155.90	5,172	2,463	11,215
156.40	5,682	2,714	13,928
156.50	6,207	594	14,523
156.90	6,314	2,504	17,027
157.40	6,748	3,266	20,292
157.90	7,305	3,513	23,806
158.40	7,877	3,796	27,601
158.90	8,465	4,086	31,687
159.40	9,068	4,383	36,070

Device	Routing	Invert	Outlet Devices
#1	Device 2	156.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	153.00'	**24.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 153.00' / 152.70' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=153.00' (Free Discharge)
↑**2=Culvert** (Controls 0.00 cfs)
↑**1=Orifice/Grate** (Controls 0.00 cfs)

Pond 51P: Basin 4 Bioretention



Summary for Pond 52P: Basin 4 Infiltration

Inflow Area = 180,774 sf, 56.17% Impervious, Inflow Depth = 0.14" for NJDEP_WQDS event
Inflow = 1.71 cfs @ 1.07 hrs, Volume= 2,077 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 152.64' @ 2.01 hrs Surf.Area= 9,012 sf Storage= 2,076 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

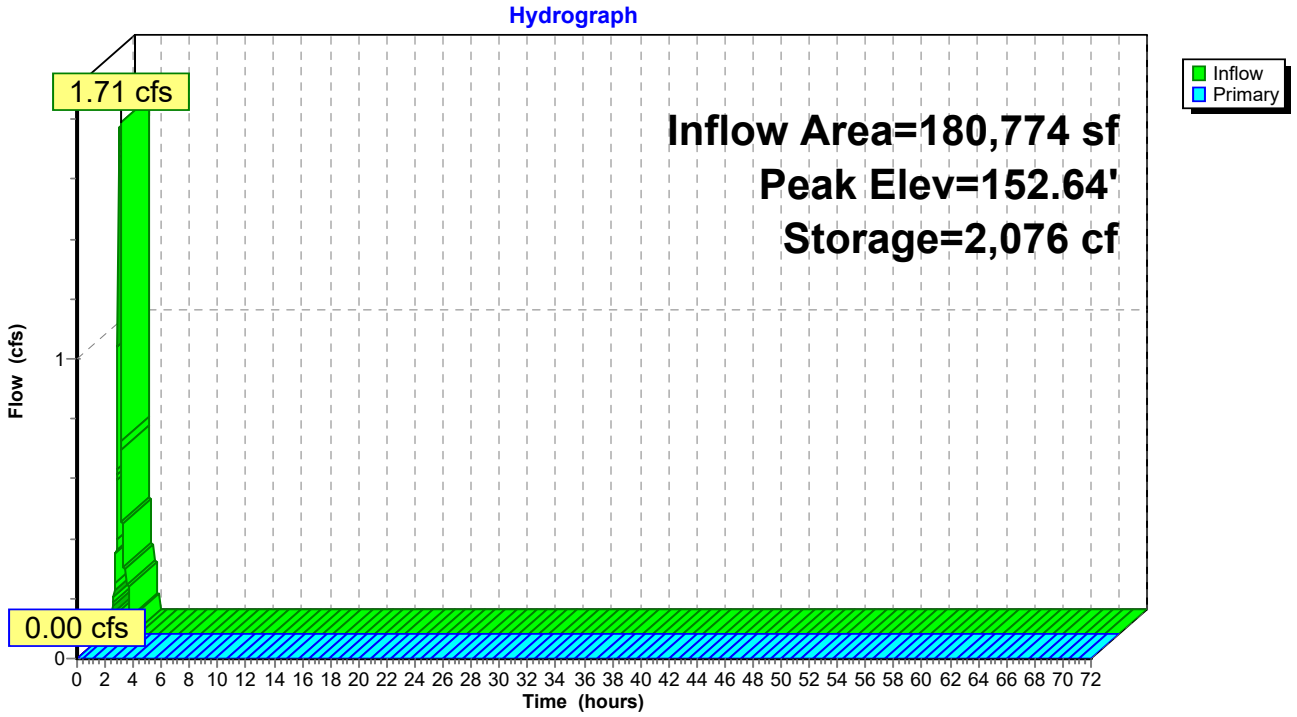
Volume	Invert	Avail.Storage	Storage Description
#1	152.40'	98,072 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
152.40	8,570	0	0
152.90	9,506	4,519	4,519
153.40	10,459	4,991	9,510
153.90	11,430	5,472	14,983
154.40	12,419	5,962	20,945
154.90	13,426	6,461	27,406
155.40	14,449	6,969	34,375
155.90	15,490	7,485	41,860
156.40	16,547	8,009	49,869
156.90	17,620	8,542	58,411
157.40	18,711	9,083	67,493
157.90	19,818	9,632	77,126
158.40	20,943	10,190	87,316
158.90	22,081	10,756	98,072

Device	Routing	Invert	Outlet Devices
#1	Primary	158.80'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=152.40' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 52P: Basin 4 Infiltration



Summary for Pond 60P: Basin 3 Bioretention

Inflow Area = 110,642 sf, 4.41% Impervious, Inflow Depth = 0.04" for NJDEP_WQDS event
Inflow = 0.28 cfs @ 1.07 hrs, Volume= 334 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 61P : Basin 3 Infiltration

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 143.10' @ 2.01 hrs Surf.Area= 3,547 sf Storage= 334 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

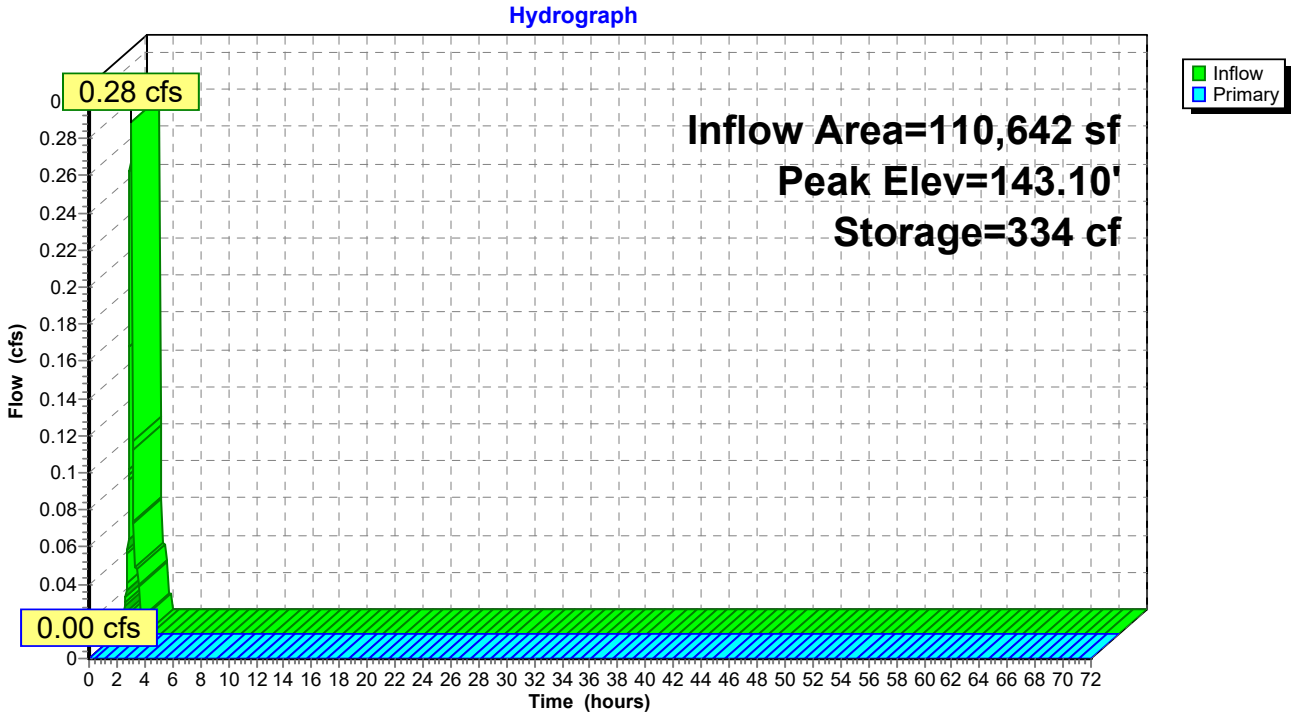
Volume	Invert	Avail.Storage	Storage Description
#1	143.00'	27,552 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.00	3,477	0	0
143.50	3,844	1,830	1,830
144.00	4,224	2,017	3,847
144.50	4,619	2,211	6,058
145.00	5,028	2,412	8,470
145.50	5,450	2,620	11,089
146.00	5,887	2,834	13,924
146.50	6,339	3,057	16,980
147.00	6,804	3,286	20,266
147.50	7,283	3,522	23,788
148.00	7,776	3,765	27,552

Device	Routing	Invert	Outlet Devices
#1	Primary	146.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Device 1	143.00'	**18.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 143.00' / 142.00' S= 0.0227 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.00' (Free Discharge)
└**1=Orifice/Grate** (Controls 0.00 cfs)
└**2=Culvert** (Controls 0.00 cfs)

Pond 60P: Basin 3 Bioretention



Summary for Pond 61P: Basin 3 Infiltration

Inflow Area = 126,803 sf, 16.59% Impervious, Inflow Depth = 0.13" for NJDEP_WQDS event
Inflow = 1.15 cfs @ 1.07 hrs, Volume= 1,393 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 142.13' @ 2.01 hrs Surf.Area= 10,850 sf Storage= 1,393 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

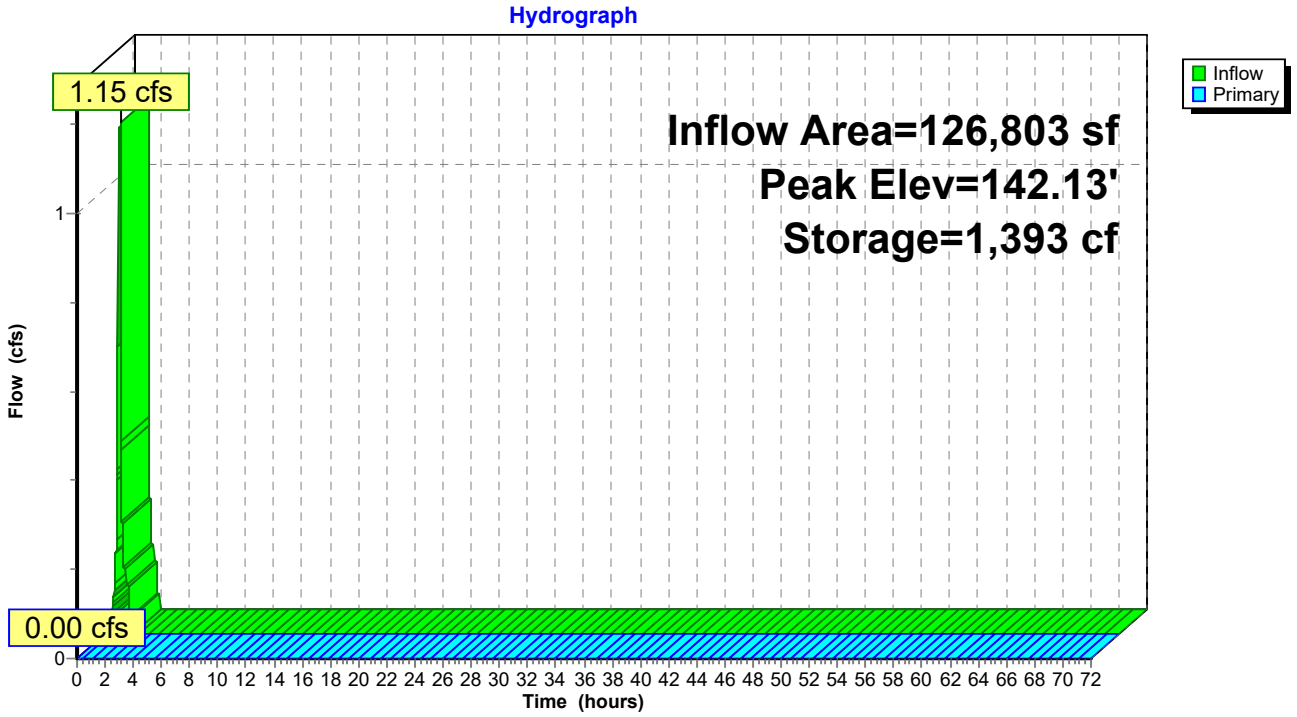
Volume	Invert	Avail.Storage	Storage Description
#1	142.00'	66,946 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
142.00	10,684	0	0
142.30	11,069	3,263	3,263
142.80	11,719	5,697	8,960
143.30	12,382	6,025	14,985
143.80	13,060	6,361	21,346
144.30	13,752	6,703	28,049
144.80	14,458	7,053	35,101
145.30	15,177	7,409	42,510
145.80	15,912	7,772	50,282
146.30	16,660	8,143	58,425
146.80	17,422	8,521	66,946

Device	Routing	Invert	Outlet Devices
#1	Primary	146.30'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=142.00' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 61P: Basin 3 Infiltration



Summary for Pond 65P: Basin 2B Forebay

Inflow Area = 383,157 sf, 7.33% Impervious, Inflow Depth = 0.08" for NJDEP_WQDS event
Inflow = 0.52 cfs @ 1.92 hrs, Volume= 2,420 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Pond 66P : Basin 2B Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 157.73' @ 71.38 hrs Surf.Area= 1,897 sf Storage= 2,420 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

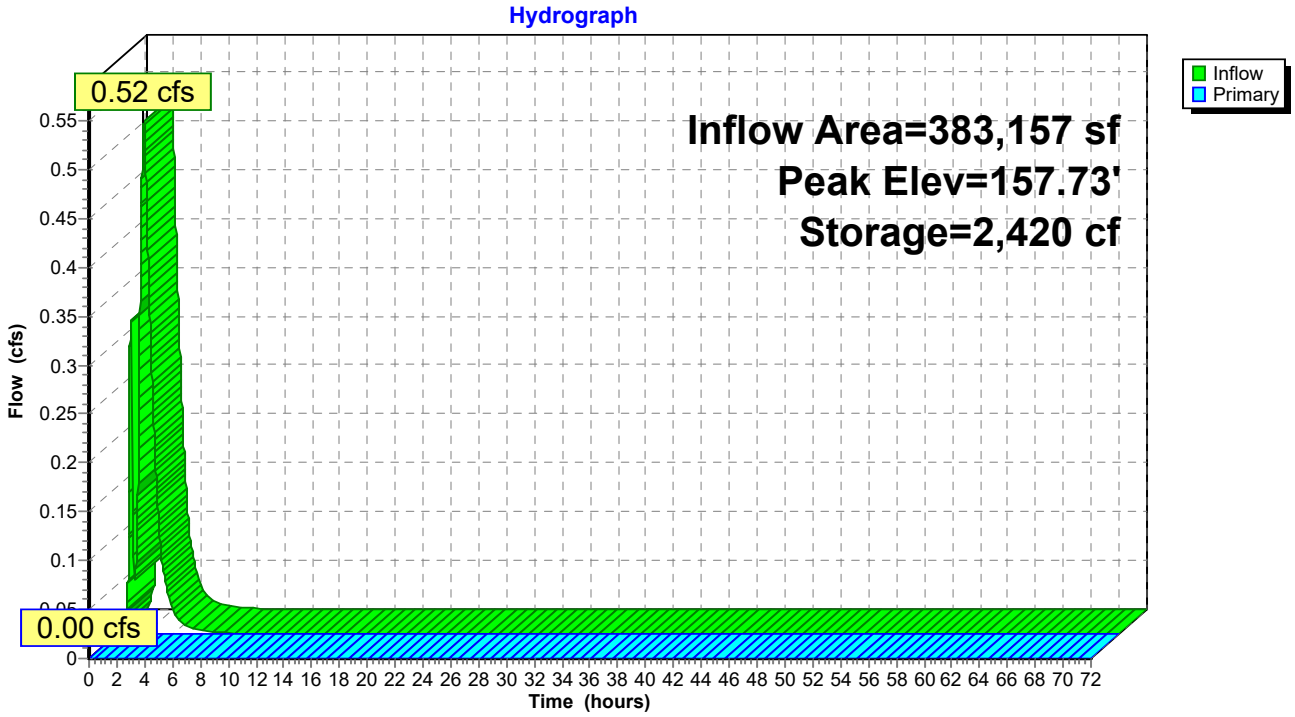
Volume	Invert	Avail.Storage	Storage Description
#1	156.00'	8,105 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
156.00	928	0	0
156.40	1,136	413	413
156.90	1,406	636	1,048
157.40	1,694	775	1,823
157.90	2,000	924	2,747
158.40	2,324	1,081	3,828
158.50	2,391	236	4,064
158.90	2,666	1,011	5,075
159.40	3,026	1,423	6,498
159.90	3,404	1,608	8,105

Device	Routing	Invert	Outlet Devices
#1	Device 2	158.50'	**36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Primary	156.00'	**24.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 156.00' / 155.50' S= 0.0200 '/' Cc= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 3.14 sf
#3	Primary	159.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=156.00' (Free Discharge)
- **2=Culvert** (Controls 0.00 cfs)
  - **1=Orifice/Grate** (Controls 0.00 cfs)
- **3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 65P: Basin 2B Forebay



Summary for Pond 66P: Basin 2B Infiltration Basin

Inflow Area = 435,255 sf, 18.42% Impervious, Inflow Depth = 0.12" for NJDEP_WQDS event
Inflow = 3.70 cfs @ 1.07 hrs, Volume= 4,492 cf
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 151.14' @ 2.01 hrs Surf.Area= 32,593 sf Storage= 4,491 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

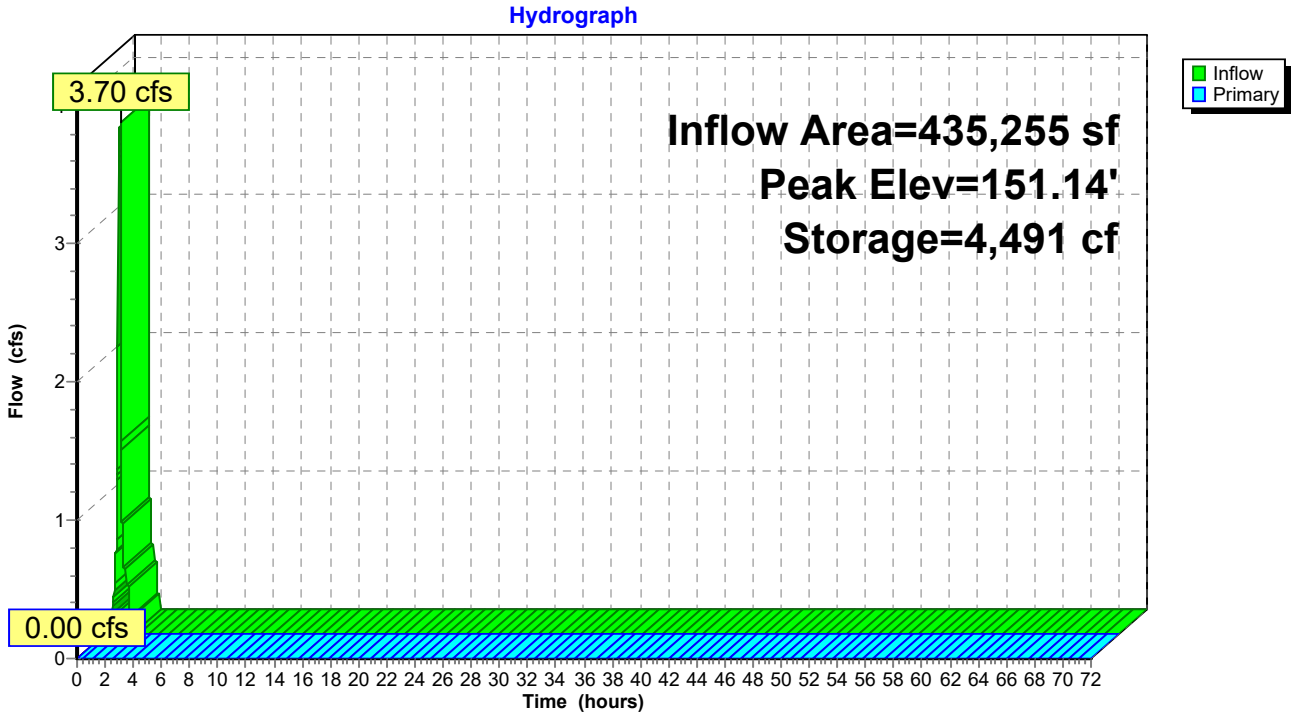
Volume	Invert	Avail.Storage	Storage Description
#1	151.00'	213,861 cf	**Basin 2B Infiltration Basin (Prismatic)** Listed below (Recalc)

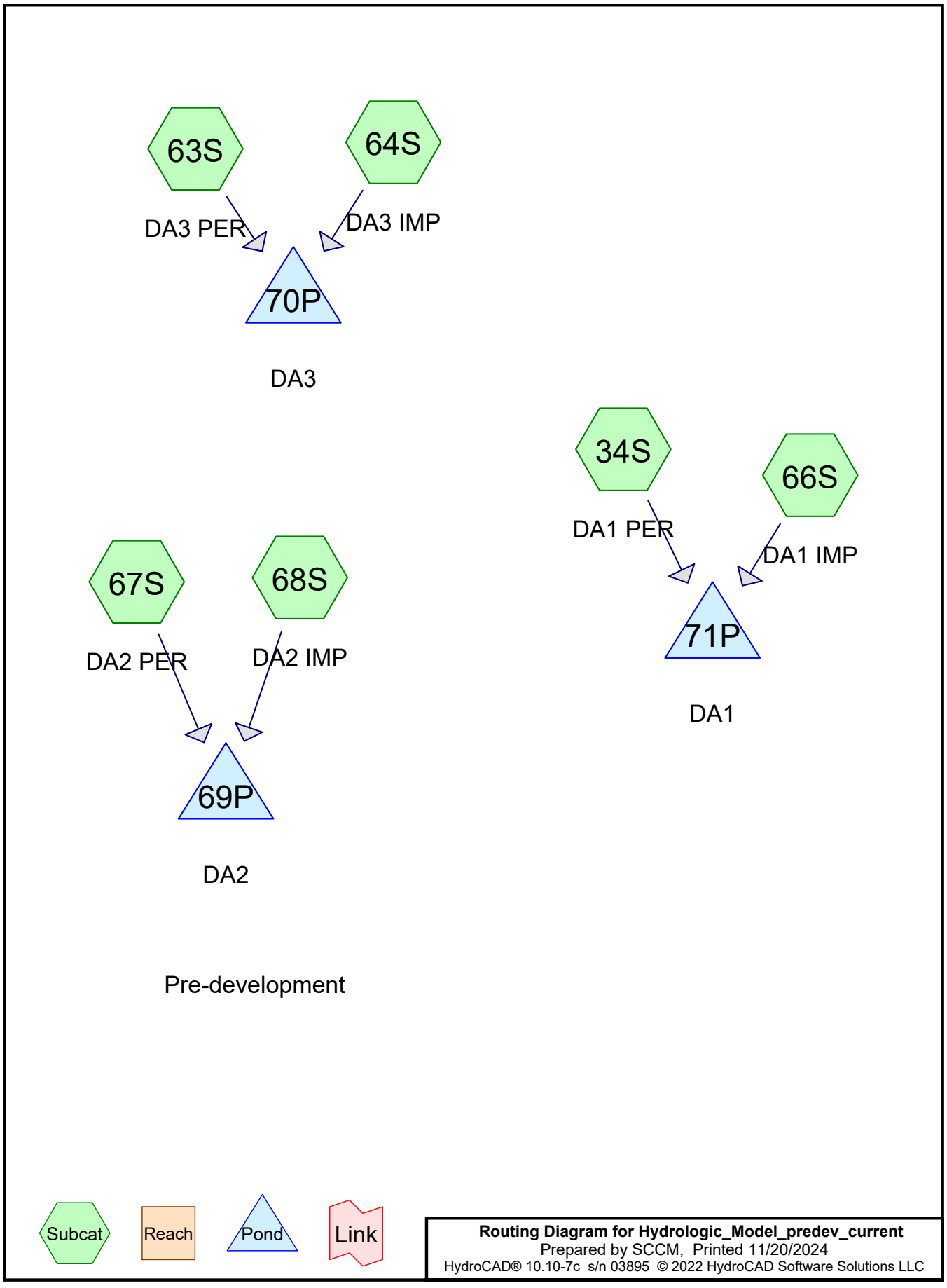
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
151.00	32,211	0	0
151.40	33,314	13,105	13,105
151.90	34,642	16,989	30,094
152.40	35,983	17,656	47,750
152.90	37,338	18,330	66,081
153.40	38,708	19,012	85,092
153.90	40,091	19,700	104,792
154.40	41,489	20,395	125,187
154.90	42,901	21,098	146,284
155.40	44,326	21,807	168,091
155.90	45,767	22,523	190,614
156.40	47,221	23,247	213,861

Device	Routing	Invert	Outlet Devices
#1	Primary	155.70'	**12.0' long + 3.0 '/' SideZ x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=151.00' (Free Discharge)
1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 66P: Basin 2B Infiltration Basin





Routing Diagram for Hydrologic_Model_predev_current
Prepared by SCCM, Printed 11/20/2024
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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-year_current	NOAA 24-hr	D	Default	24.00	1	3.40	2
2	10-year_current	NOAA 24-hr	D	Default	24.00	1	5.31	2
3	100-year_current	NOAA 24-hr	D	Default	24.00	1	9.28	2
4	NJDEP_WQDS	NJ DEP 2-hr		Default	2.00	1	1.25	2

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
32,234	98	(64S, 66S, 68S)
1,048,489	39	>75% Grass cover, Good, HSG A (34S, 63S, 67S)
415,562	72	Dirt roads, HSG A (34S, 63S, 67S)
1,496,286	**49**	**TOTAL AREA**

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
1,464,052	HSG A	34S, 63S, 67S
0	HSG B	
0	HSG C	
0	HSG D	
32,234	Other	64S, 66S, 68S
1,496,286		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Sub Num
0	0	0	0	32,234	32,234		
1,048,489	0	0	0	0	1,048,489	>75% Grass cover, Good	
415,562	0	0	0	0	415,562	Dirt roads	
1,464,052	**0**	**0**	**0**	**32,234**	**1,496,286**	**TOTAL AREA**	

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 34S: DA1 PER Runoff Area=10.920 ac 0.00% Impervious Runoff Depth=0.29"
Flow Length=531' Tc=38.3 min CN=WQ Runoff=1.58 cfs 11,405 cf

Subcatchment 63S: DA3 PER Runoff Area=2.310 ac 0.00% Impervious Runoff Depth=0.36"
Flow Length=295' Tc=5.2 min CN=WQ Runoff=0.98 cfs 3,016 cf

Subcatchment 64S: DA3 IMP Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=3.17"
Flow Length=36' Slope=0.0050 '/' Tc=0.9 min CN=98 Runoff=0.14 cfs 460 cf

Subcatchment 66S: DA1 IMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=3.17"
Flow Length=130' Slope=0.0050 '/' Tc=2.3 min CN=98 Runoff=0.88 cfs 2,874 cf

Subcatchment 67S: DA2 PER Runoff Area=20.380 ac 0.00% Impervious Runoff Depth=0.30"
Flow Length=781' Tc=16.5 min CN=WQ Runoff=4.81 cfs 22,556 cf

Subcatchment 68S: DA2 IMP Runoff Area=0.450 ac 100.00% Impervious Runoff Depth=3.17"
Flow Length=122' Slope=0.0050 '/' Tc=2.3 min CN=98 Runoff=1.59 cfs 5,173 cf

Pond 69P: DA2 Inflow=5.22 cfs 27,729 cf
Primary=5.22 cfs 27,729 cf

Pond 70P: DA3 Inflow=1.05 cfs 3,476 cf
Primary=1.05 cfs 3,476 cf

Pond 71P: DA1 Inflow=1.71 cfs 14,279 cf
Primary=1.71 cfs 14,279 cf

Total Runoff Area = 1,496,286 sf Runoff Volume = 45,483 cf Average Runoff Depth = 0.36"
97.85% Pervious = 1,464,052 sf 2.15% Impervious = 32,234 sf

Summary for Subcatchment 34S: DA1 PER

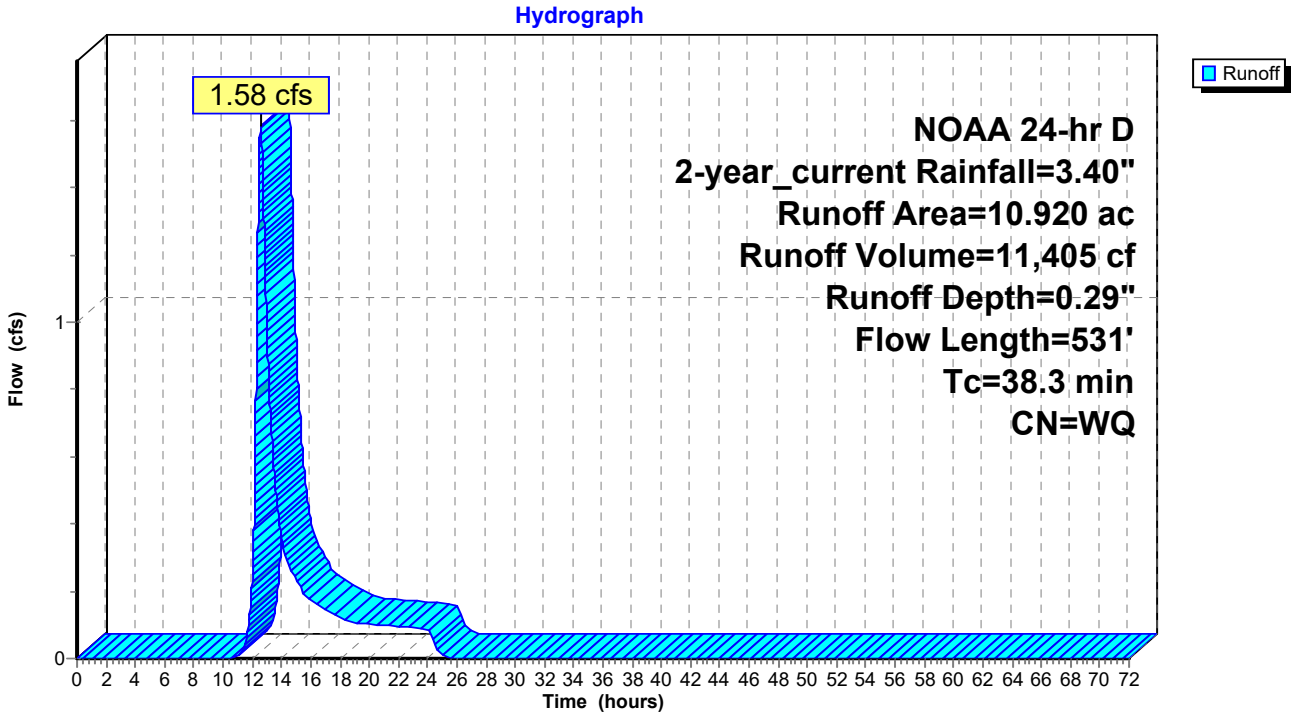
Runoff = 1.58 cfs @ 12.56 hrs, Volume= 11,405 cf, Depth= 0.29"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

Area (ac)	CN	Description
7.980	39	>75% Grass cover, Good, HSG A
2.940	72	Dirt roads, HSG A
10.920		Weighted Average
10.920	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	62	0.0180	0.55		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
11.1	38	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
0.2	5	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.3	146	0.0110	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.40"
2.0	89	0.0110	0.73		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	89	0.0040	0.44		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	102	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
38.3	531	Total			

Subcatchment 34S: DA1 PER



Summary for Subcatchment 63S: DA3 PER

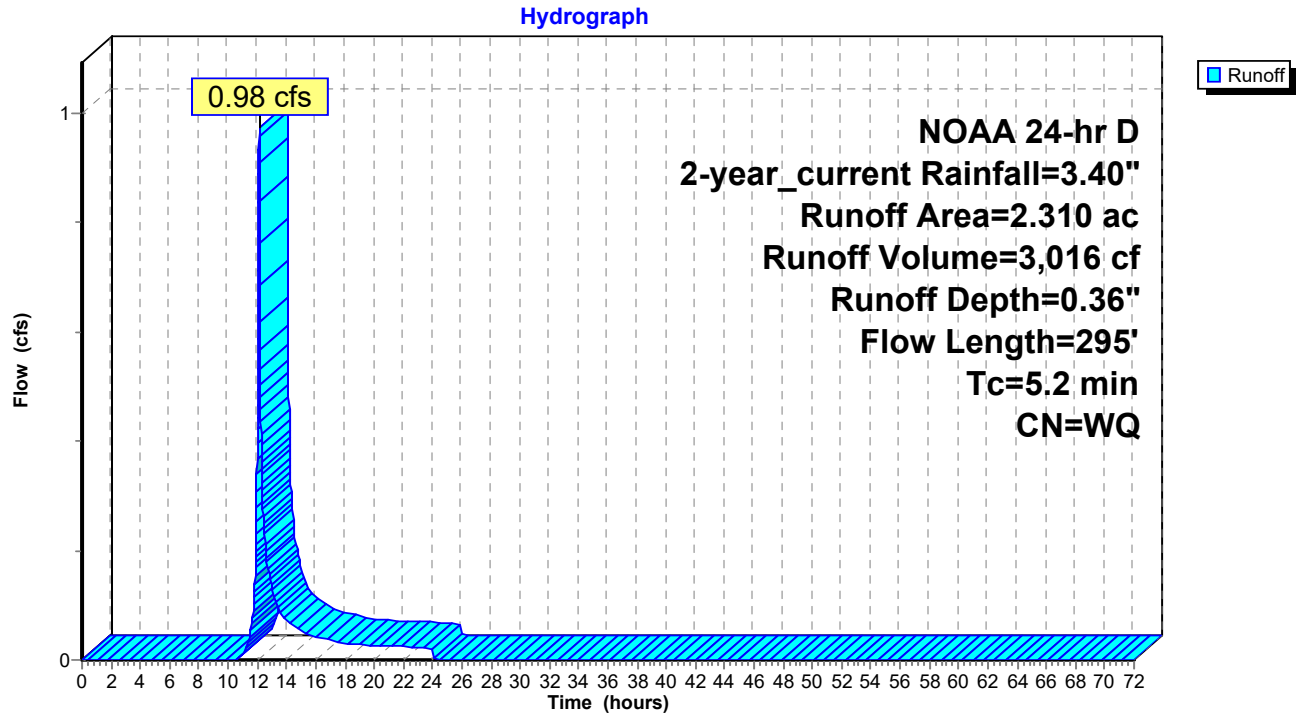
Runoff = 0.98 cfs @ 12.13 hrs, Volume= 3,016 cf, Depth= 0.36"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

Area (ac)	CN	Description
1.530	39	>75% Grass cover, Good, HSG A
0.780	72	Dirt roads, HSG A
2.310		Weighted Average
2.310	50	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	99	0.0270	0.48		**Sheet Flow,** Fallow n= 0.050 P2= 3.40"
1.5	164	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	32	0.0290	2.74		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
5.2	295	Total			

Subcatchment 63S: DA3 PER



Summary for Subcatchment 64S: DA3 IMP

[49] Hint: Tc<2dt may require smaller dt

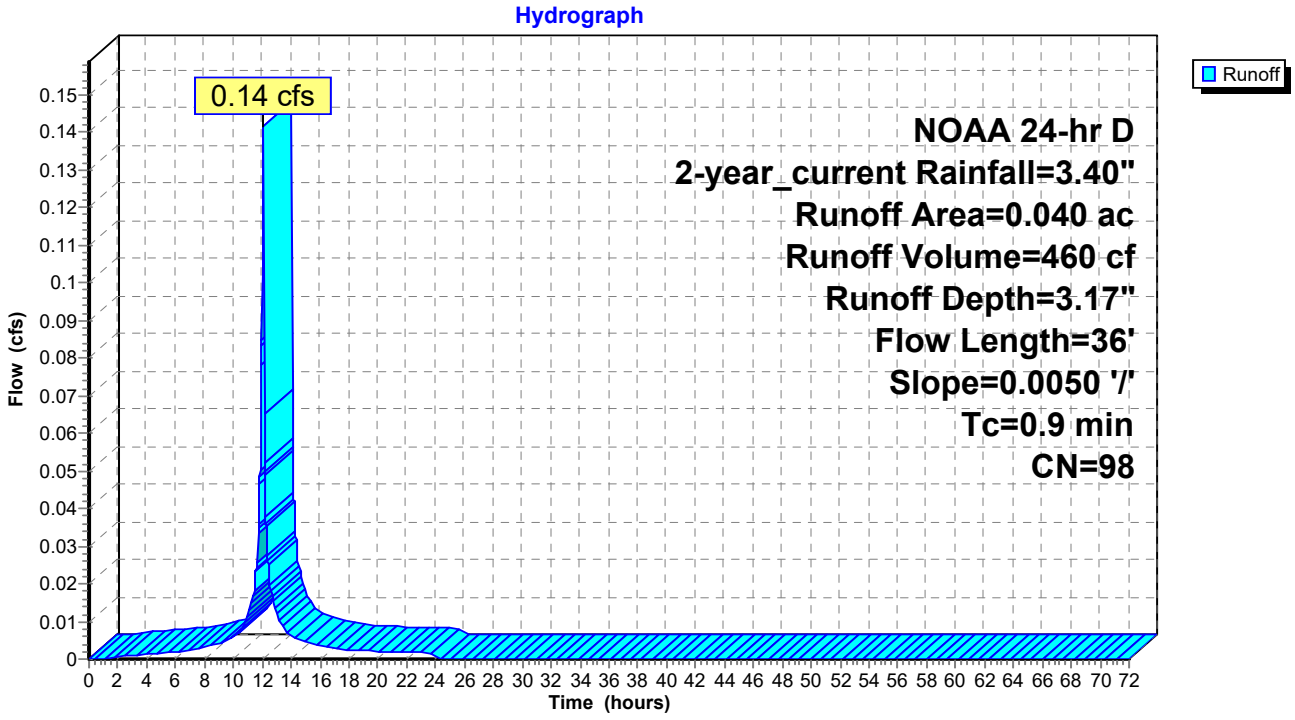
Runoff = 0.14 cfs @ 12.09 hrs, Volume= 460 cf, Depth= 3.17"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.040	98	
	0.040	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	36	0.0050	0.66		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"

Subcatchment 64S: DA3 IMP



Summary for Subcatchment 66S: DA1 IMP

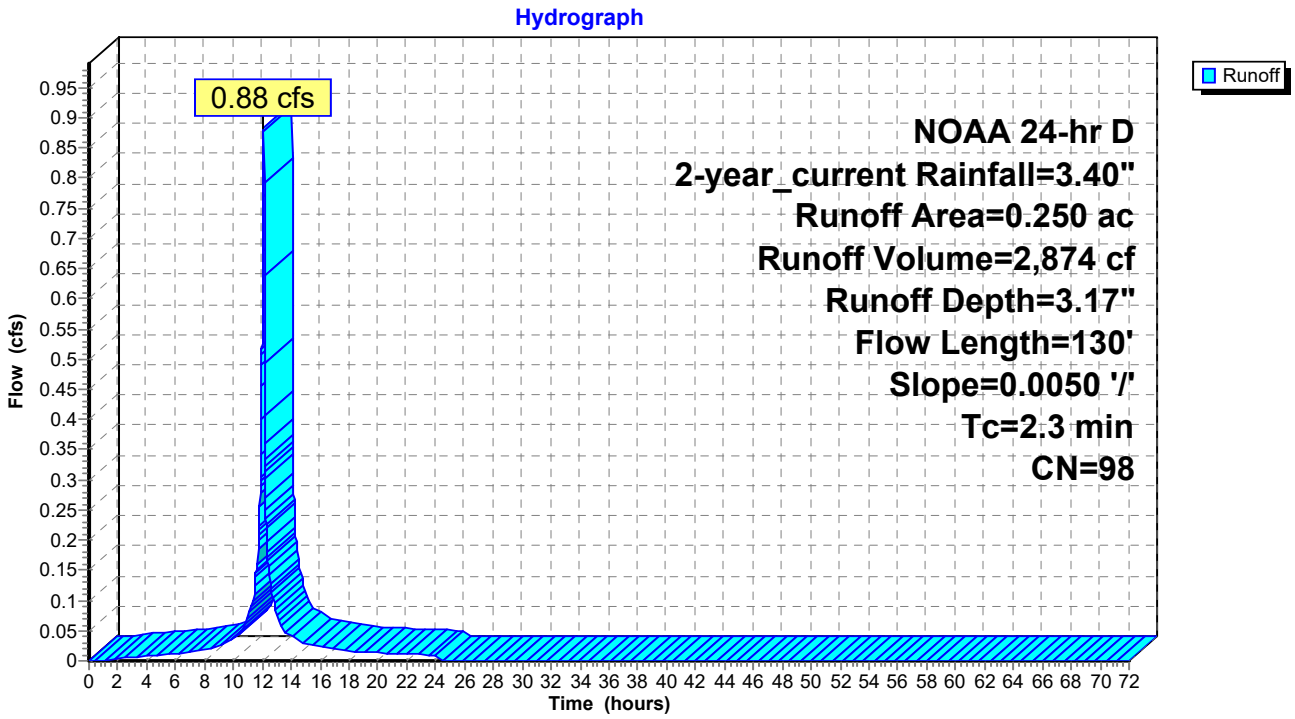
Runoff = 0.88 cfs @ 12.10 hrs, Volume= 2,874 cf, Depth= 3.17"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.250	98	
	0.250	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	100	0.0050	0.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.3	30	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.3	130	Total			

Subcatchment 66S: DA1 IMP



Summary for Subcatchment 67S: DA2 PER

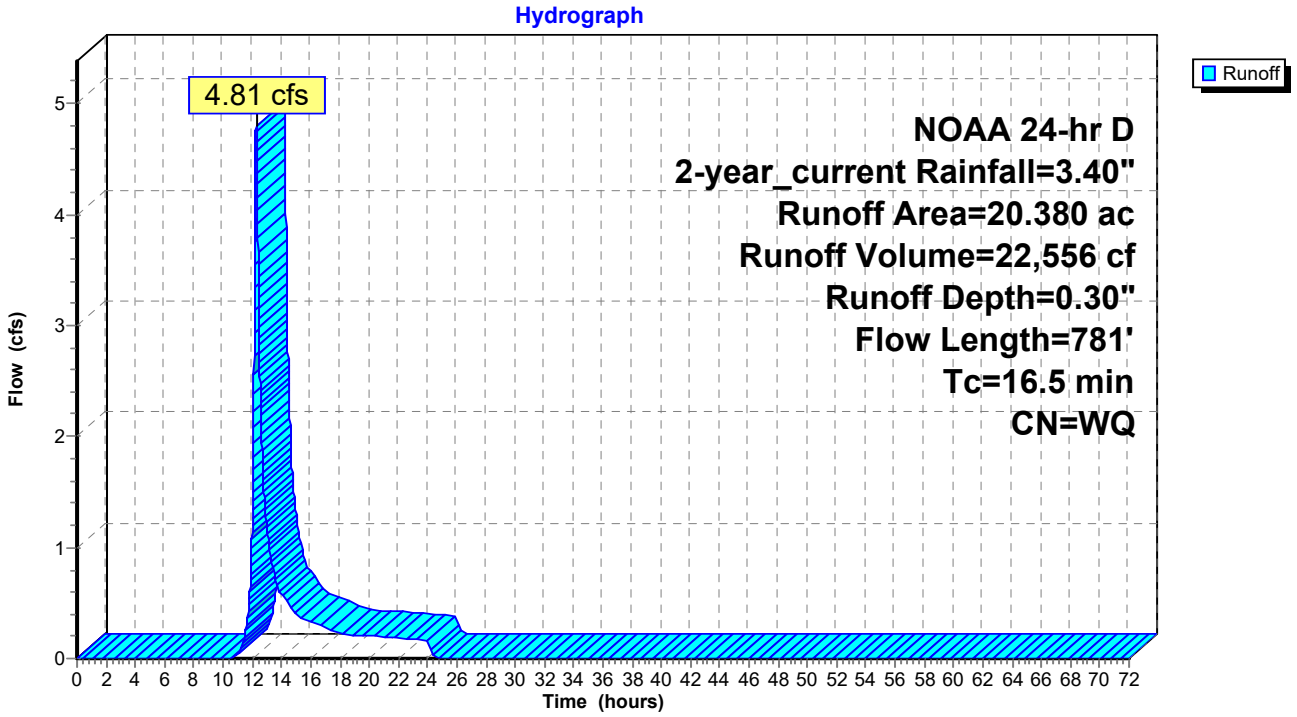
Runoff = 4.81 cfs @ 12.26 hrs, Volume= 22,556 cf, Depth= 0.30"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

Area (ac)	CN	Description
14.560	39	>75% Grass cover, Good, HSG A
5.820	72	Dirt roads, HSG A
20.380		Weighted Average
20.380	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	85	0.0080	0.43		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
0.5	15	0.0250	0.48		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
0.2	28	0.0250	2.55		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	50	0.0050	1.14		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.5	124	0.0410	1.42		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.0	270	0.0260	1.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	60	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.7	94	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	55	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.5	781	Total			

Subcatchment 67S: DA2 PER



Summary for Subcatchment 68S: DA2 IMP

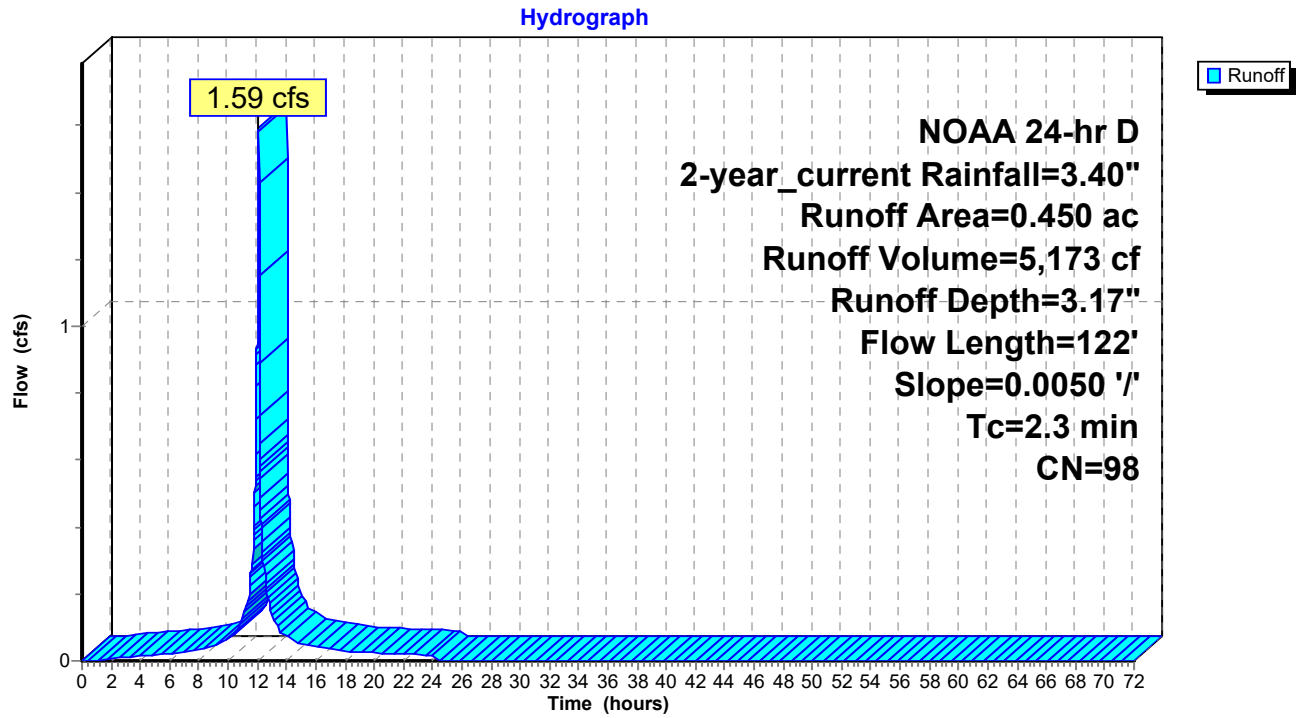
Runoff = 1.59 cfs @ 12.10 hrs, Volume= 5,173 cf, Depth= 3.17"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_current Rainfall=3.40"

	Area (ac)	CN	Description
*	0.450	98	
	0.450	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	100	0.0050	0.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.3	22	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.3	122	Total			

Subcatchment 68S: DA2 IMP



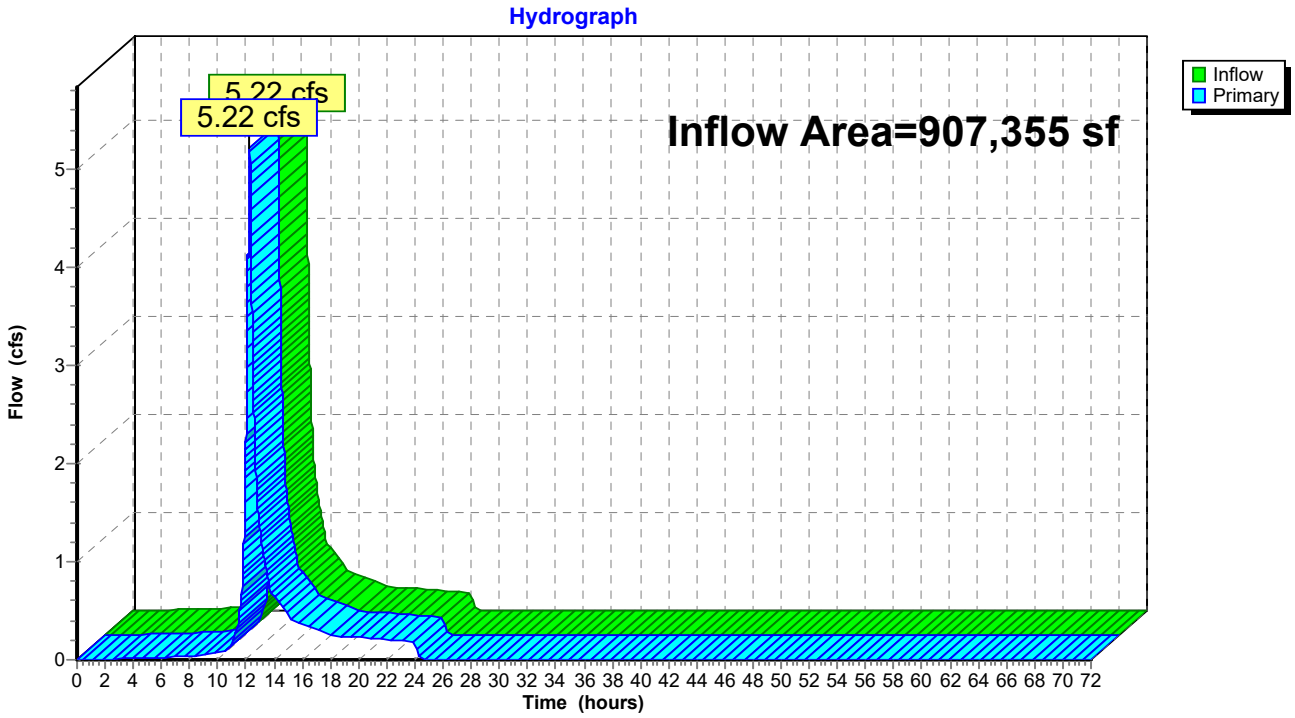
Summary for Pond 69P: DA2

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 907,355 sf, 2.16% Impervious, Inflow Depth = 0.37" for 2-year_current event
Inflow = 5.22 cfs @ 12.26 hrs, Volume= 27,729 cf
Primary = 5.22 cfs @ 12.26 hrs, Volume= 27,729 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 69P: DA2



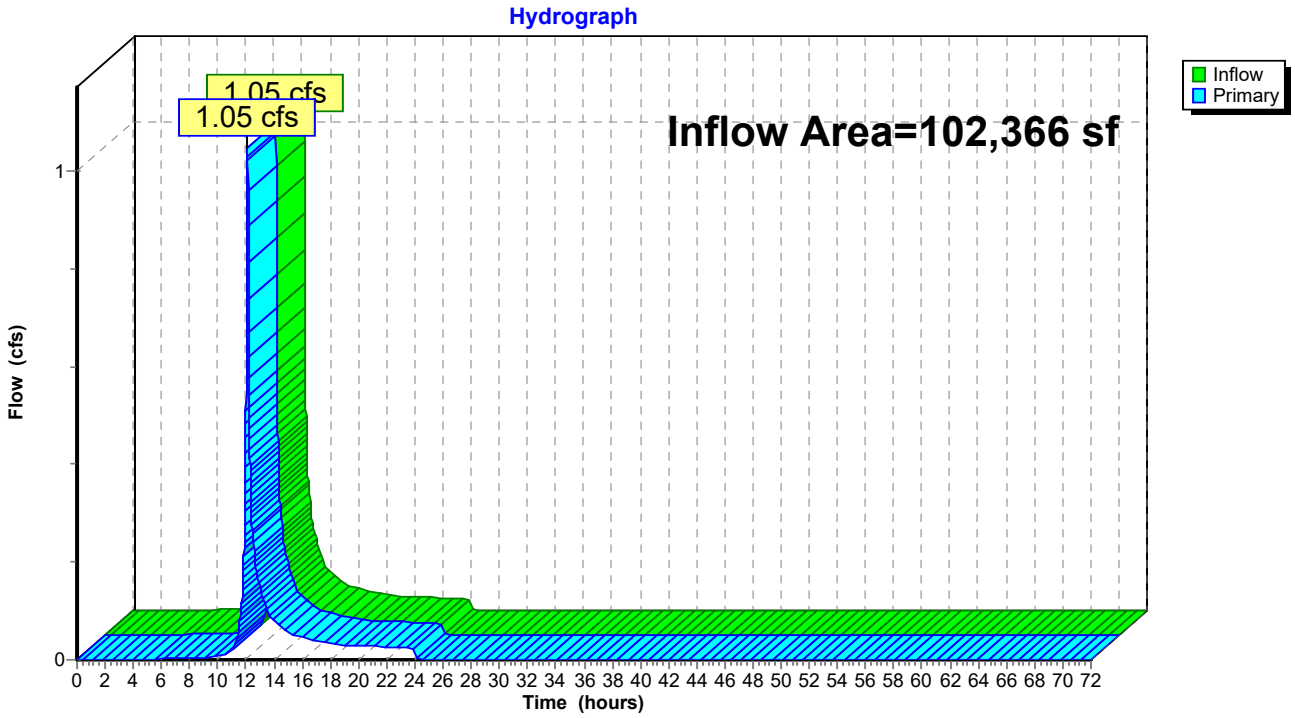
Summary for Pond 70P: DA3

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 102,366 sf, 1.70% Impervious, Inflow Depth = 0.41" for 2-year_current event
Inflow = 1.05 cfs @ 12.11 hrs, Volume= 3,476 cf
Primary = 1.05 cfs @ 12.11 hrs, Volume= 3,476 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 70P: DA3



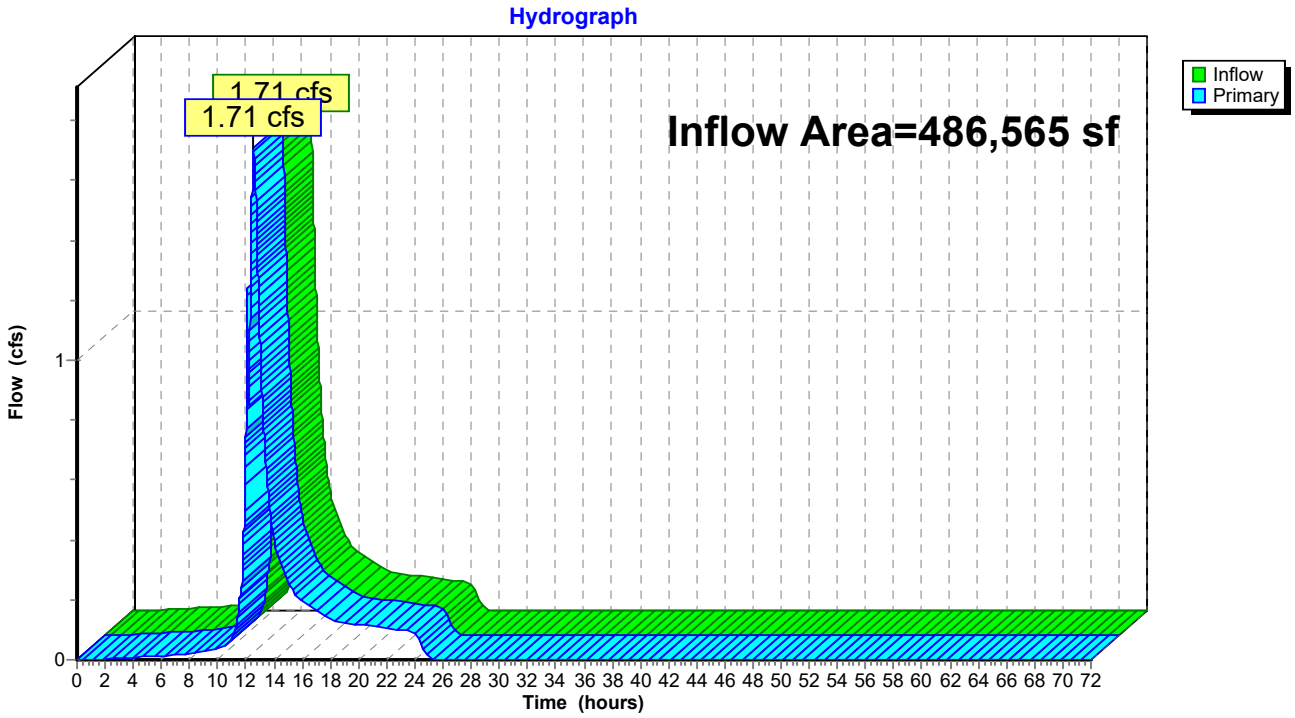
Summary for Pond 71P: DA1

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 486,565 sf, 2.24% Impervious, Inflow Depth = 0.35" for 2-year_current event
Inflow = 1.71 cfs @ 12.52 hrs, Volume= 14,279 cf
Primary = 1.71 cfs @ 12.52 hrs, Volume= 14,279 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 71P: DA1



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 34S: DA1 PER Runoff Area=10.920 ac 0.00% Impervious Runoff Depth=0.85"
Flow Length=531' Tc=38.3 min CN=WQ Runoff=3.97 cfs 33,769 cf

Subcatchment 63S: DA3 PER Runoff Area=2.310 ac 0.00% Impervious Runoff Depth=1.00"
Flow Length=295' Tc=5.2 min CN=WQ Runoff=2.32 cfs 8,390 cf

Subcatchment 64S: DA3 IMP Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=5.07"
Flow Length=36' Slope=0.0050 '/' Tc=0.9 min CN=98 Runoff=0.22 cfs 737 cf

Subcatchment 66S: DA1 IMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=5.07"
Flow Length=130' Slope=0.0050 '/' Tc=2.3 min CN=98 Runoff=1.39 cfs 4,603 cf

Subcatchment 67S: DA2 PER Runoff Area=20.380 ac 0.00% Impervious Runoff Depth=0.89"
Flow Length=781' Tc=16.5 min CN=WQ Runoff=11.73 cfs 65,649 cf

Subcatchment 68S: DA2 IMP Runoff Area=0.450 ac 100.00% Impervious Runoff Depth=5.07"
Flow Length=122' Slope=0.0050 '/' Tc=2.3 min CN=98 Runoff=2.50 cfs 8,286 cf

Pond 69P: DA2 Inflow=12.39 cfs 73,935 cf
Primary=12.39 cfs 73,935 cf

Pond 70P: DA3 Inflow=2.43 cfs 9,126 cf
Primary=2.43 cfs 9,126 cf

Pond 71P: DA1 Inflow=4.16 cfs 38,372 cf
Primary=4.16 cfs 38,372 cf

Total Runoff Area = 1,496,286 sf Runoff Volume = 121,434 cf Average Runoff Depth = 0.97"
97.85% Pervious = 1,464,052 sf 2.15% Impervious = 32,234 sf

Summary for Subcatchment 34S: DA1 PER

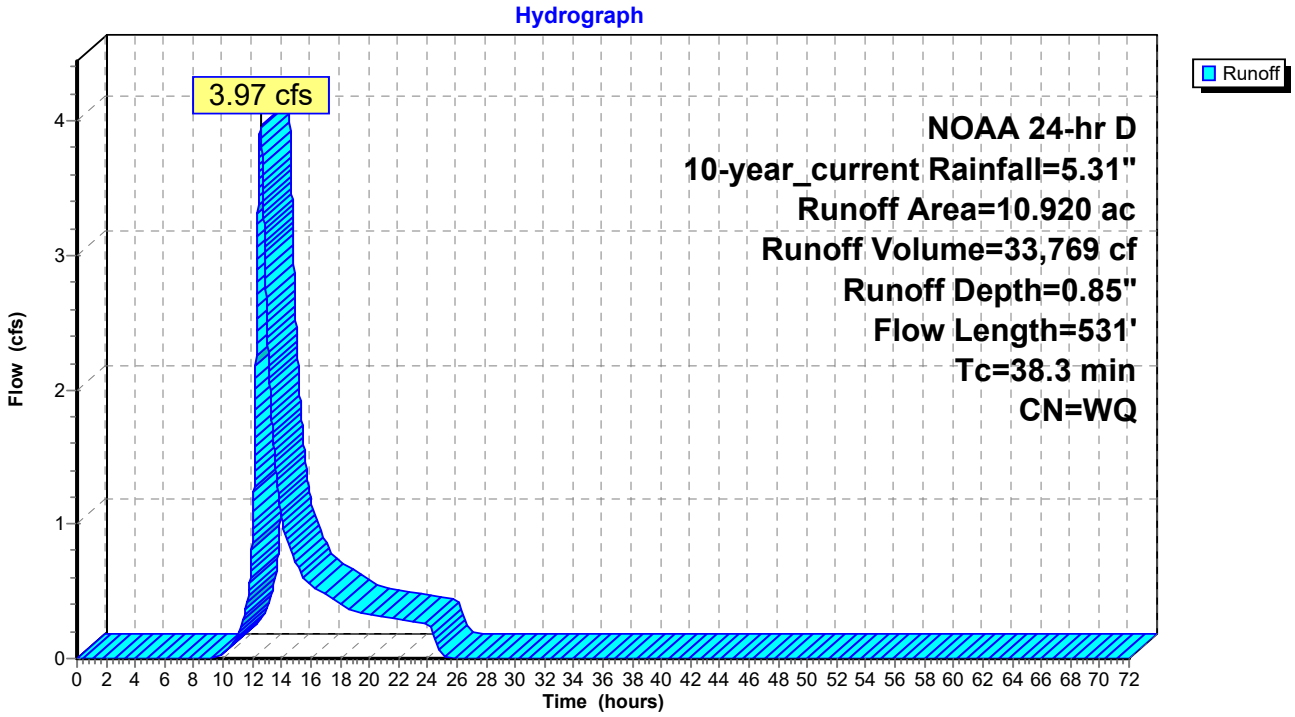
Runoff = 3.97 cfs @ 12.55 hrs, Volume= 33,769 cf, Depth= 0.85"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

Area (ac)	CN	Description
7.980	39	>75% Grass cover, Good, HSG A
2.940	72	Dirt roads, HSG A
10.920		Weighted Average
10.920	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	62	0.0180	0.55		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
11.1	38	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
0.2	5	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.3	146	0.0110	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.40"
2.0	89	0.0110	0.73		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	89	0.0040	0.44		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	102	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
38.3	531	Total			

Subcatchment 34S: DA1 PER



Summary for Subcatchment 63S: DA3 PER

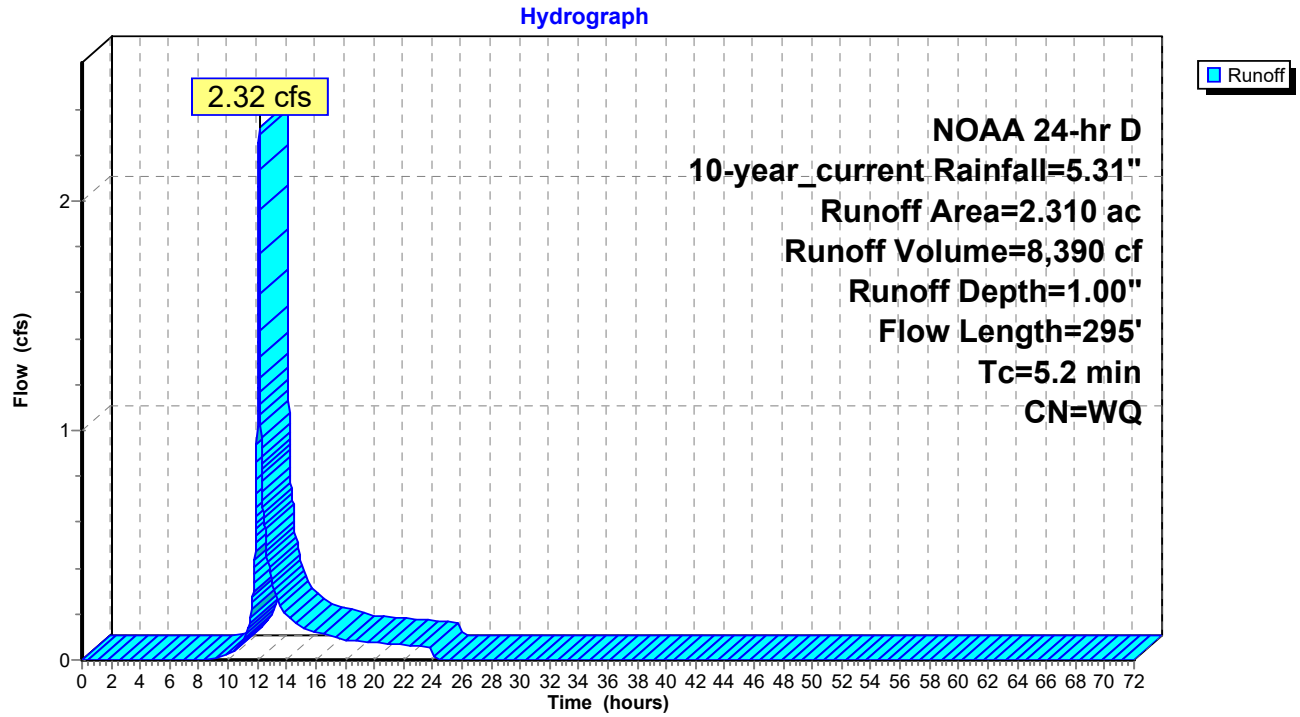
Runoff = 2.32 cfs @ 12.13 hrs, Volume= 8,390 cf, Depth= 1.00"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

Area (ac)	CN	Description
1.530	39	>75% Grass cover, Good, HSG A
0.780	72	Dirt roads, HSG A
2.310		Weighted Average
2.310	50	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	99	0.0270	0.48		**Sheet Flow,** Fallow n= 0.050 P2= 3.40"
1.5	164	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	32	0.0290	2.74		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
5.2	295	Total			

Subcatchment 63S: DA3 PER



Summary for Subcatchment 64S: DA3 IMP

[49] Hint: Tc<2dt may require smaller dt

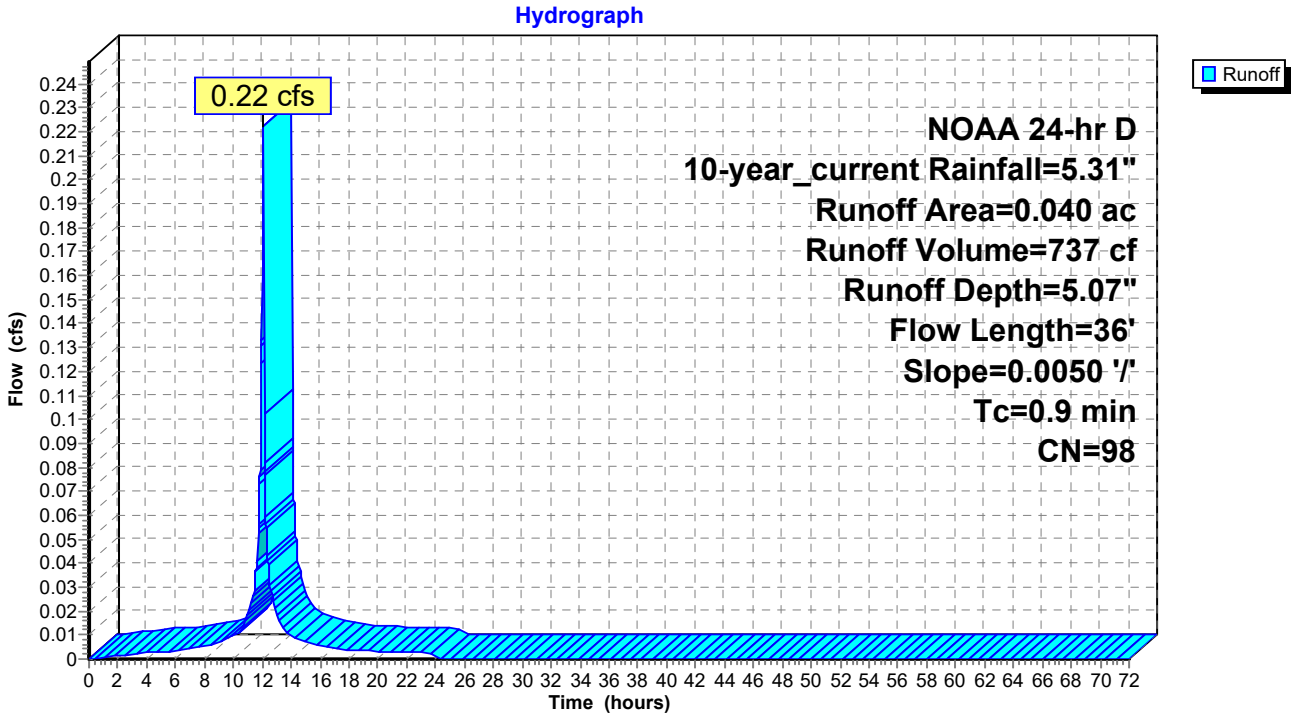
Runoff = 0.22 cfs @ 12.09 hrs, Volume= 737 cf, Depth= 5.07"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.040	98	
	0.040	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	36	0.0050	0.66		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"

Subcatchment 64S: DA3 IMP



Summary for Subcatchment 66S: DA1 IMP

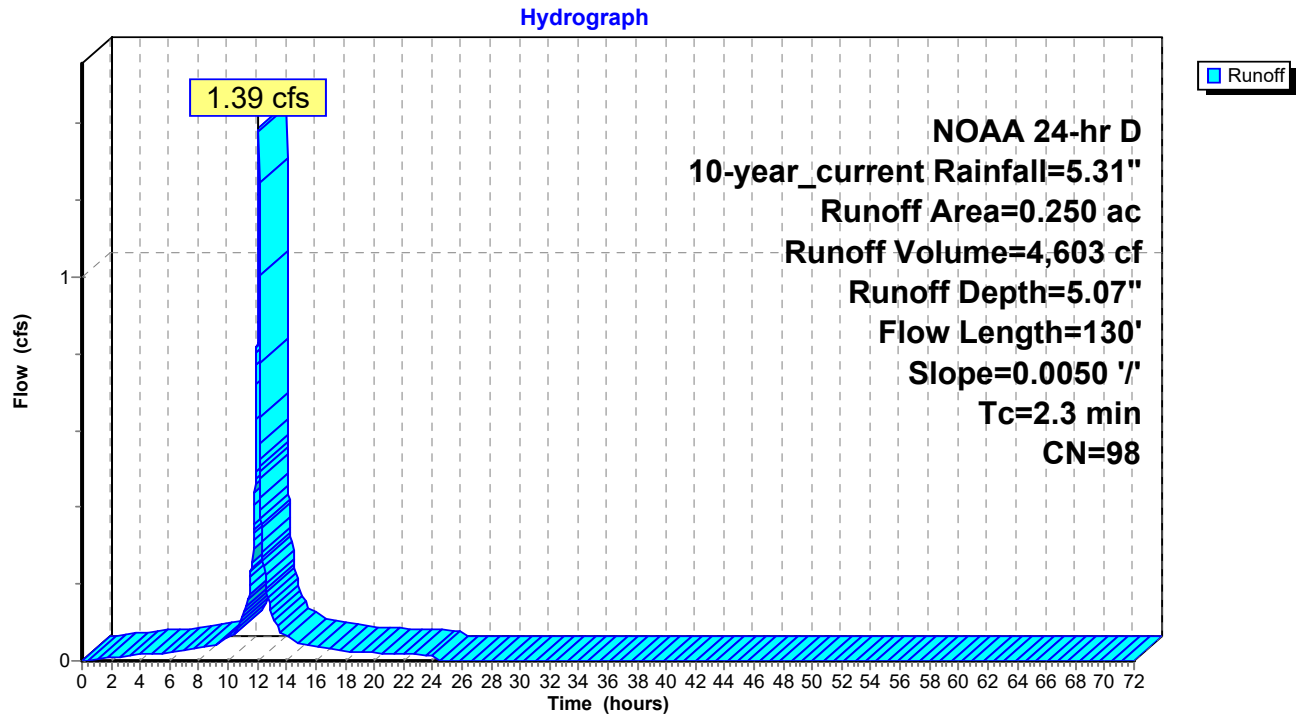
Runoff = 1.39 cfs @ 12.10 hrs, Volume= 4,603 cf, Depth= 5.07"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.250	98	
	0.250	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	100	0.0050	0.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.3	30	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.3	130	Total			

Subcatchment 66S: DA1 IMP



Summary for Subcatchment 67S: DA2 PER

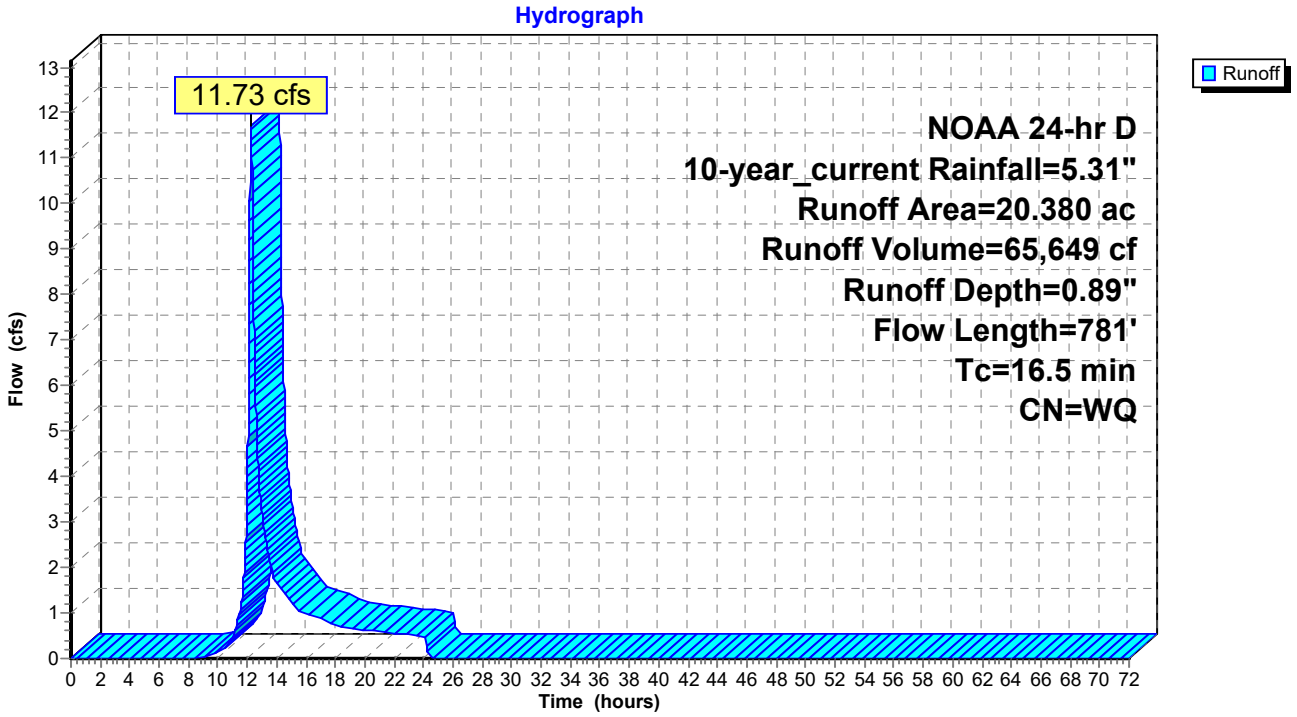
Runoff = 11.73 cfs @ 12.26 hrs, Volume= 65,649 cf, Depth= 0.89"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

Area (ac)	CN	Description
14.560	39	>75% Grass cover, Good, HSG A
5.820	72	Dirt roads, HSG A
20.380		Weighted Average
20.380	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	85	0.0080	0.43		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
0.5	15	0.0250	0.48		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
0.2	28	0.0250	2.55		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	50	0.0050	1.14		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.5	124	0.0410	1.42		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.0	270	0.0260	1.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	60	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.7	94	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	55	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.5	781	Total			

Subcatchment 67S: DA2 PER



Summary for Subcatchment 68S: DA2 IMP

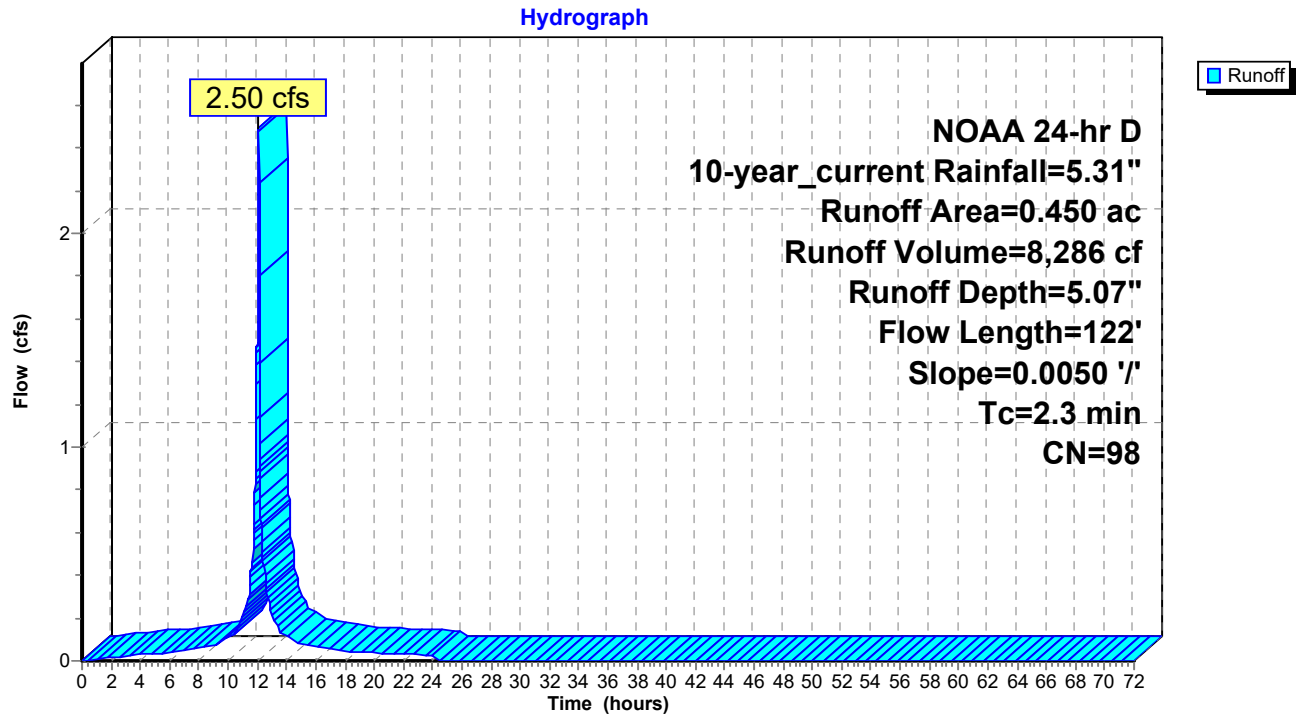
Runoff = 2.50 cfs @ 12.10 hrs, Volume= 8,286 cf, Depth= 5.07"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_current Rainfall=5.31"

	Area (ac)	CN	Description
*	0.450	98	
	0.450	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	100	0.0050	0.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.3	22	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.3	122	Total			

Subcatchment 68S: DA2 IMP



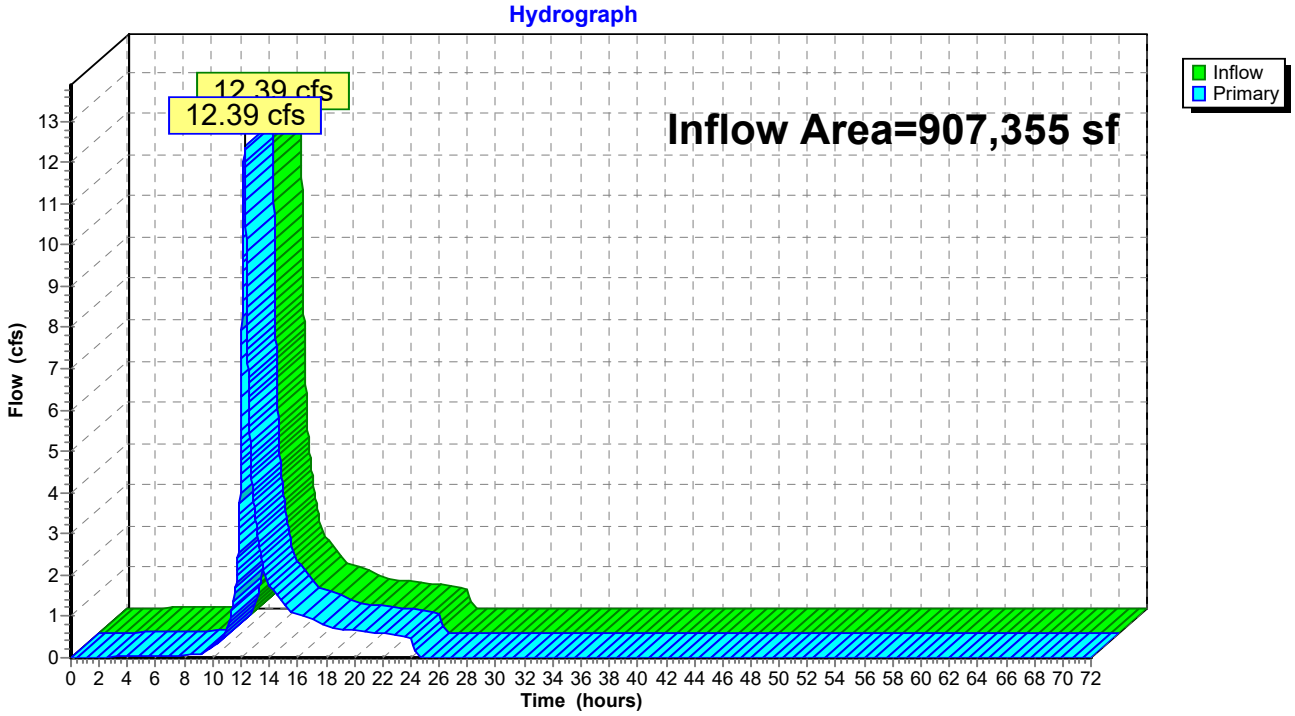
Summary for Pond 69P: DA2

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 907,355 sf, 2.16% Impervious, Inflow Depth = 0.98" for 10-year_current event
Inflow = 12.39 cfs @ 12.25 hrs, Volume= 73,935 cf
Primary = 12.39 cfs @ 12.25 hrs, Volume= 73,935 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 69P: DA2



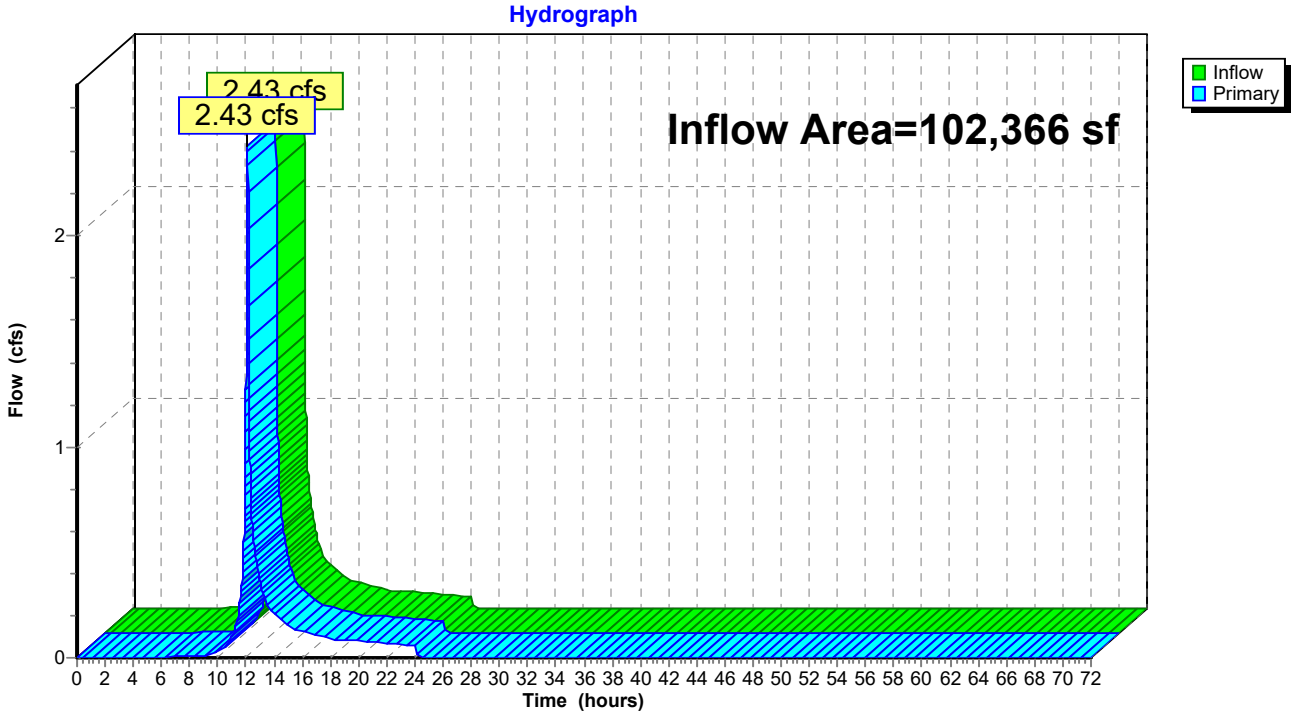
Summary for Pond 70P: DA3

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 102,366 sf, 1.70% Impervious, Inflow Depth = 1.07" for 10-year_current event
Inflow = 2.43 cfs @ 12.11 hrs, Volume= 9,126 cf
Primary = 2.43 cfs @ 12.11 hrs, Volume= 9,126 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 70P: DA3



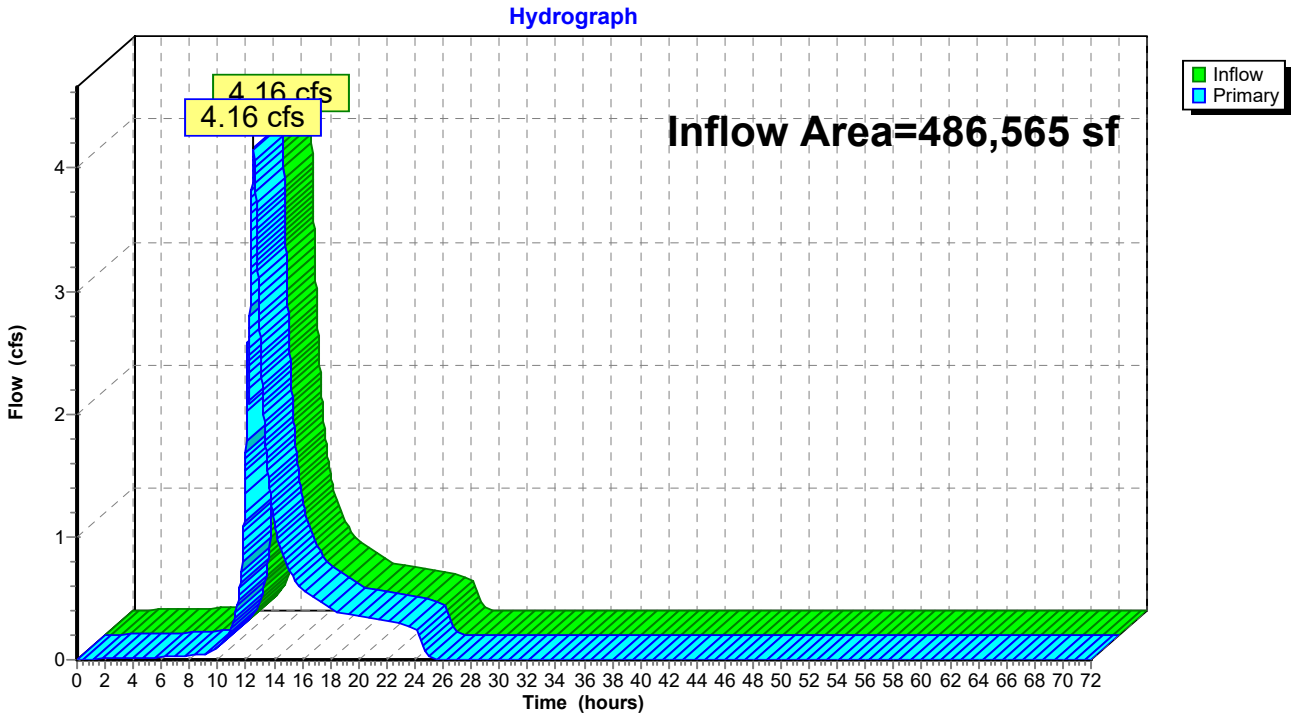
Summary for Pond 71P: DA1

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 486,565 sf, 2.24% Impervious, Inflow Depth = 0.95" for 10-year_current event
Inflow = 4.16 cfs @ 12.52 hrs, Volume= 38,372 cf
Primary = 4.16 cfs @ 12.52 hrs, Volume= 38,372 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 71P: DA1



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 34S: DA1 PER Runoff Area=10.920 ac 0.00% Impervious Runoff Depth=2.84"
Flow Length=531' Tc=38.3 min CN=WQ Runoff=15.10 cfs 112,564 cf

Subcatchment 63S: DA3 PER Runoff Area=2.310 ac 0.00% Impervious Runoff Depth=3.12"
Flow Length=295' Tc=5.2 min CN=WQ Runoff=8.18 cfs 26,163 cf

Subcatchment 64S: DA3 IMP Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=9.04"
Flow Length=36' Slope=0.0050 '/' Tc=0.9 min CN=98 Runoff=0.39 cfs 1,313 cf

Subcatchment 66S: DA1 IMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=9.04"
Flow Length=130' Slope=0.0050 '/' Tc=2.3 min CN=98 Runoff=2.43 cfs 8,203 cf

Subcatchment 67S: DA2 PER Runoff Area=20.380 ac 0.00% Impervious Runoff Depth=2.91"
Flow Length=781' Tc=16.5 min CN=WQ Runoff=44.22 cfs 215,031 cf

Subcatchment 68S: DA2 IMP Runoff Area=0.450 ac 100.00% Impervious Runoff Depth=9.04"
Flow Length=122' Slope=0.0050 '/' Tc=2.3 min CN=98 Runoff=4.38 cfs 14,766 cf

Pond 69P: DA2 Inflow=45.35 cfs 229,797 cf
Primary=45.35 cfs 229,797 cf

Pond 70P: DA3 Inflow=8.33 cfs 27,475 cf
Primary=8.33 cfs 27,475 cf

Pond 71P: DA1 Inflow=15.43 cfs 120,767 cf
Primary=15.43 cfs 120,767 cf

Total Runoff Area = 1,496,286 sf Runoff Volume = 378,040 cf Average Runoff Depth = 3.03"
97.85% Pervious = 1,464,052 sf 2.15% Impervious = 32,234 sf

Summary for Subcatchment 34S: DA1 PER

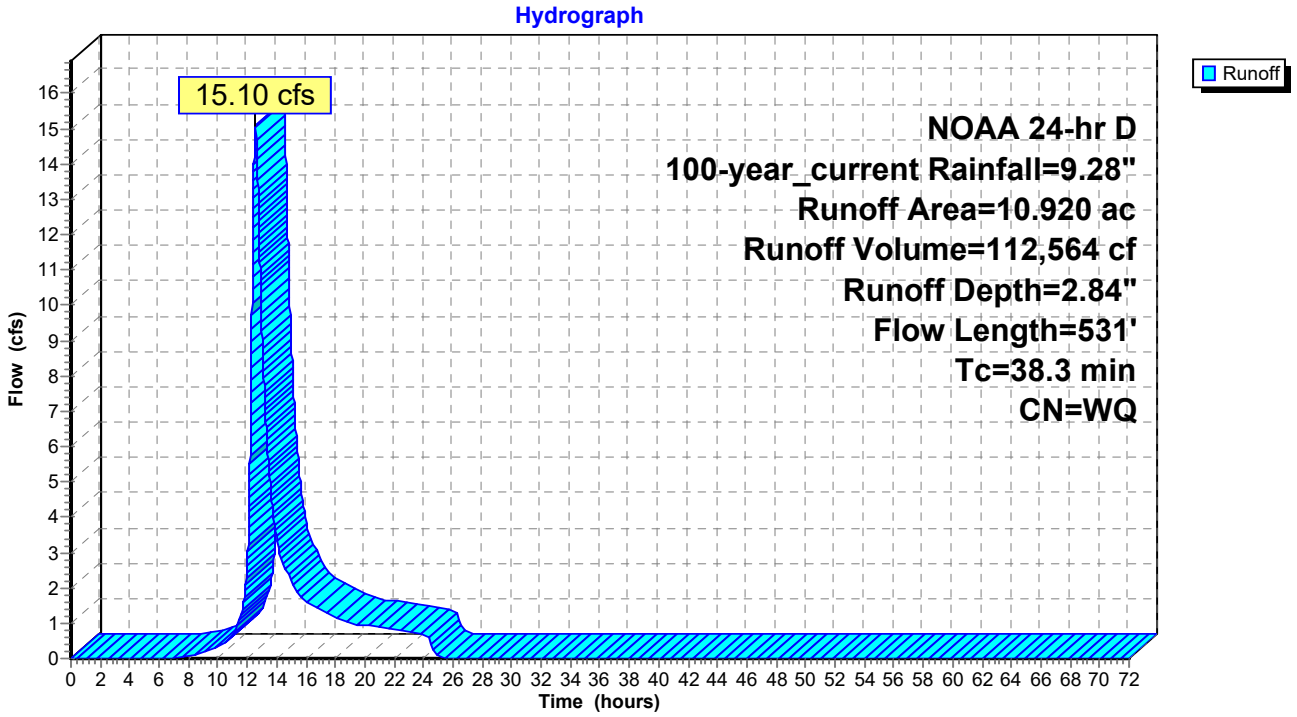
Runoff = 15.10 cfs @ 12.56 hrs, Volume= 112,564 cf, Depth= 2.84"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

Area (ac)	CN	Description
7.980	39	>75% Grass cover, Good, HSG A
2.940	72	Dirt roads, HSG A
10.920		Weighted Average
10.920	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	62	0.0180	0.55		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
11.1	38	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
0.2	5	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.3	146	0.0110	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.40"
2.0	89	0.0110	0.73		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	89	0.0040	0.44		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	102	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
38.3	531	Total			

Subcatchment 34S: DA1 PER



Summary for Subcatchment 63S: DA3 PER

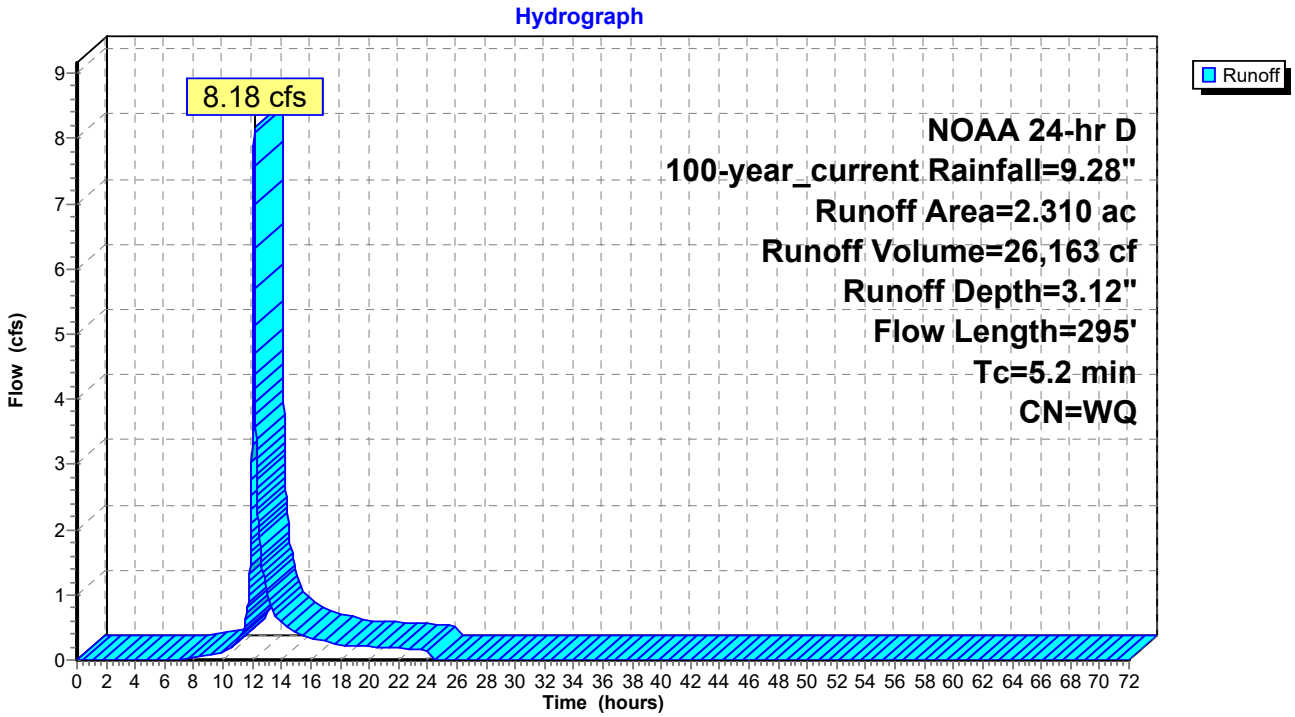
Runoff = 8.18 cfs @ 12.13 hrs, Volume= 26,163 cf, Depth= 3.12"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

Area (ac)	CN	Description
1.530	39	>75% Grass cover, Good, HSG A
0.780	72	Dirt roads, HSG A
2.310		Weighted Average
2.310	50	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	99	0.0270	0.48		**Sheet Flow,** Fallow n= 0.050 P2= 3.40"
1.5	164	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	32	0.0290	2.74		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
5.2	295	Total			

Subcatchment 63S: DA3 PER



Summary for Subcatchment 64S: DA3 IMP

[49] Hint: Tc<2dt may require smaller dt

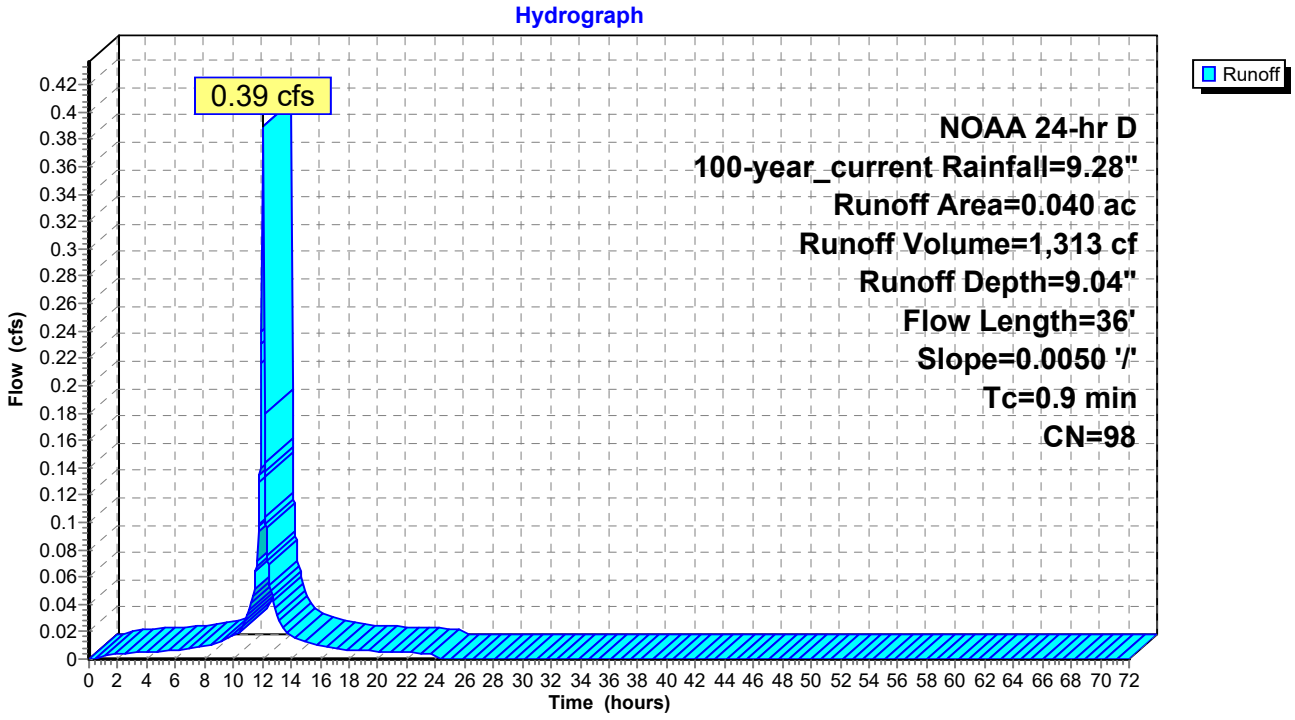
Runoff = 0.39 cfs @ 12.09 hrs, Volume= 1,313 cf, Depth= 9.04"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.040	98	
	0.040	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	36	0.0050	0.66		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"

Subcatchment 64S: DA3 IMP



Summary for Subcatchment 66S: DA1 IMP

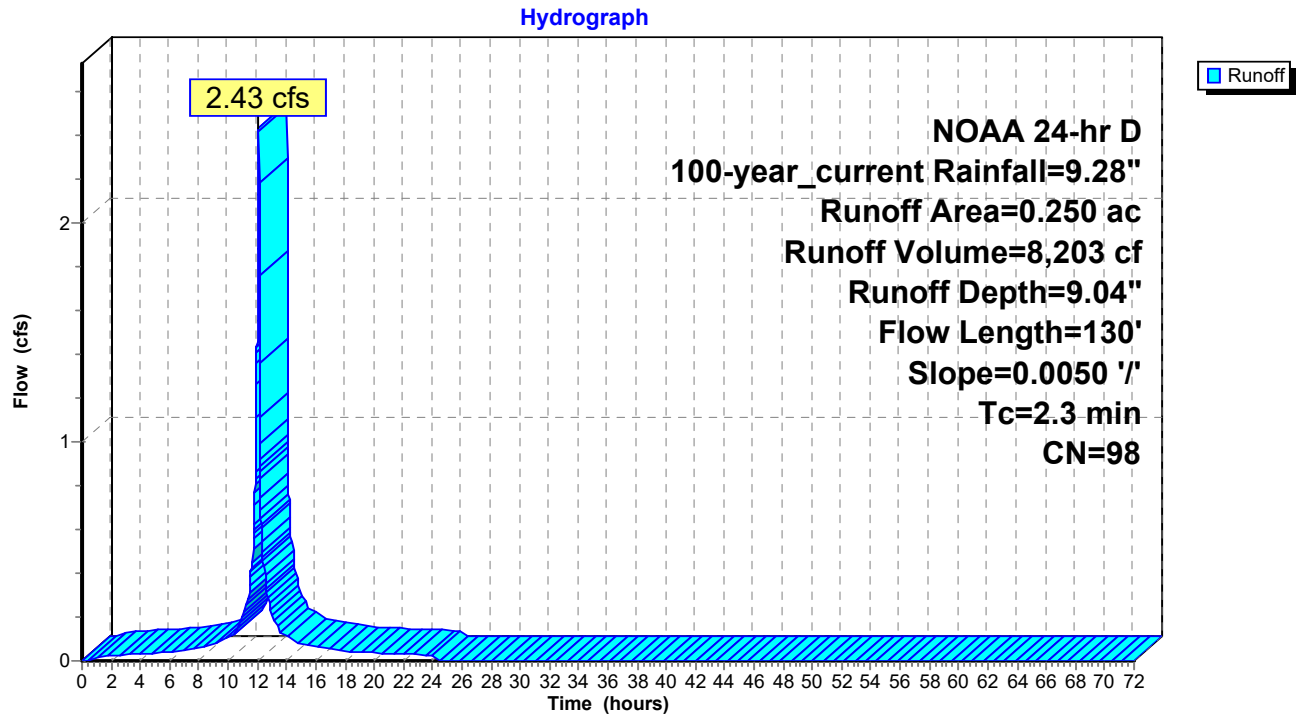
Runoff = 2.43 cfs @ 12.10 hrs, Volume= 8,203 cf, Depth= 9.04"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.250	98	
	0.250	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	100	0.0050	0.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.3	30	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.3	130	Total			

Subcatchment 66S: DA1 IMP



Summary for Subcatchment 67S: DA2 PER

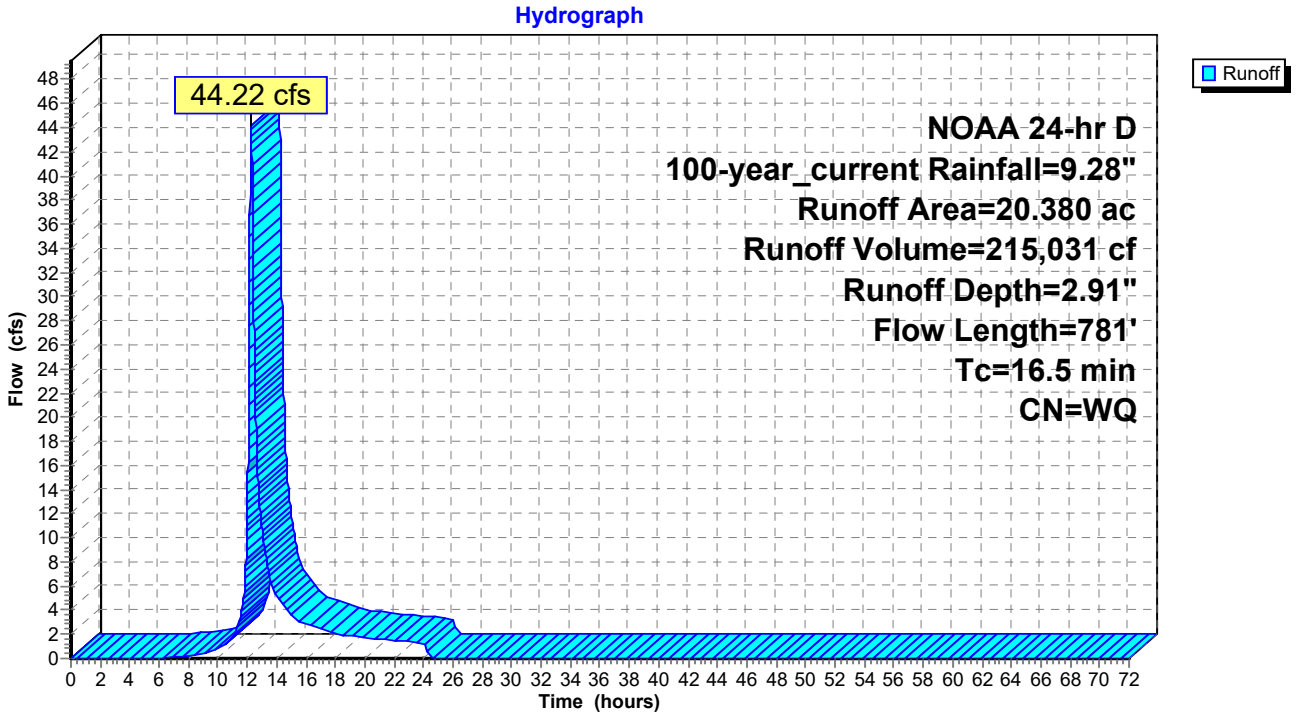
Runoff = 44.22 cfs @ 12.26 hrs, Volume= 215,031 cf, Depth= 2.91"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

Area (ac)	CN	Description
14.560	39	>75% Grass cover, Good, HSG A
5.820	72	Dirt roads, HSG A
20.380		Weighted Average
20.380	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	85	0.0080	0.43		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
0.5	15	0.0250	0.48		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
0.2	28	0.0250	2.55		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	50	0.0050	1.14		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.5	124	0.0410	1.42		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.0	270	0.0260	1.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	60	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.7	94	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	55	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.5	781	Total			

Subcatchment 67S: DA2 PER



Summary for Subcatchment 68S: DA2 IMP

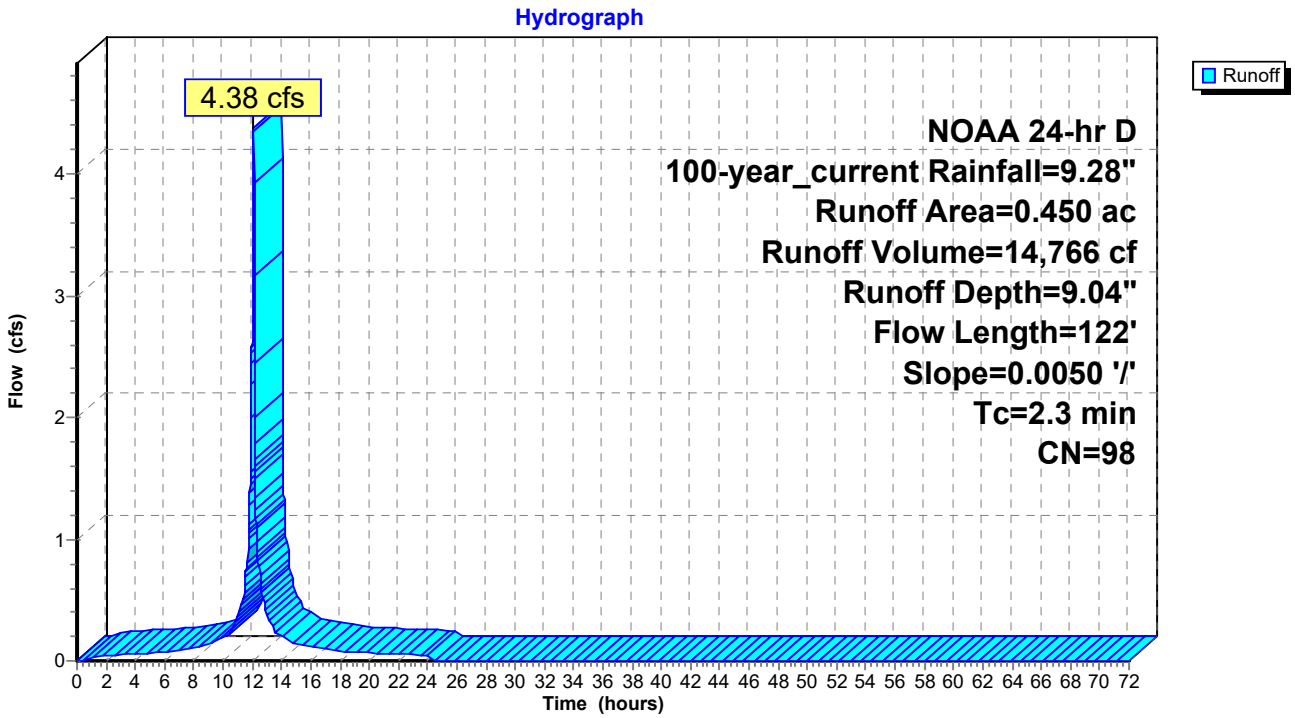
Runoff = 4.38 cfs @ 12.10 hrs, Volume= 14,766 cf, Depth= 9.04"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_current Rainfall=9.28"

	Area (ac)	CN	Description
*	0.450	98	
	0.450	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	100	0.0050	0.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.3	22	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.3	122	Total			

Subcatchment 68S: DA2 IMP



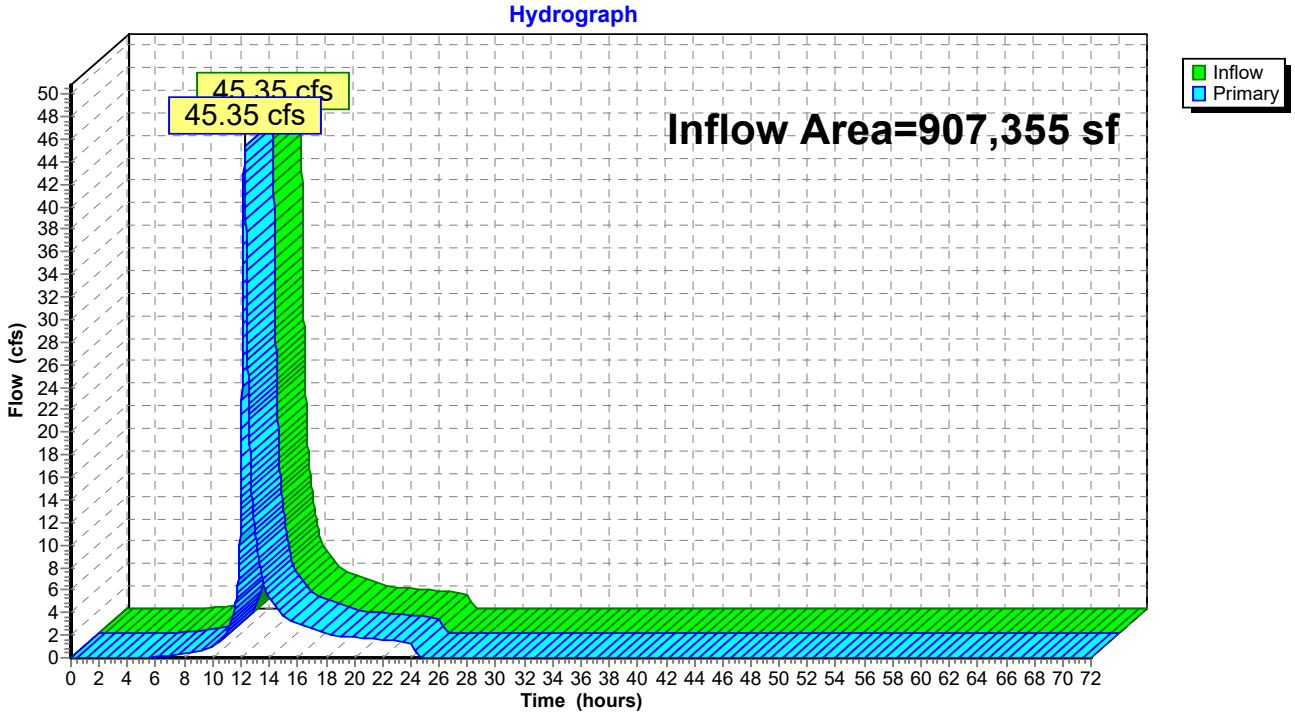
Summary for Pond 69P: DA2

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 907,355 sf, 2.16% Impervious, Inflow Depth = 3.04" for 100-year_current event
Inflow = 45.35 cfs @ 12.26 hrs, Volume= 229,797 cf
Primary = 45.35 cfs @ 12.26 hrs, Volume= 229,797 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 69P: DA2



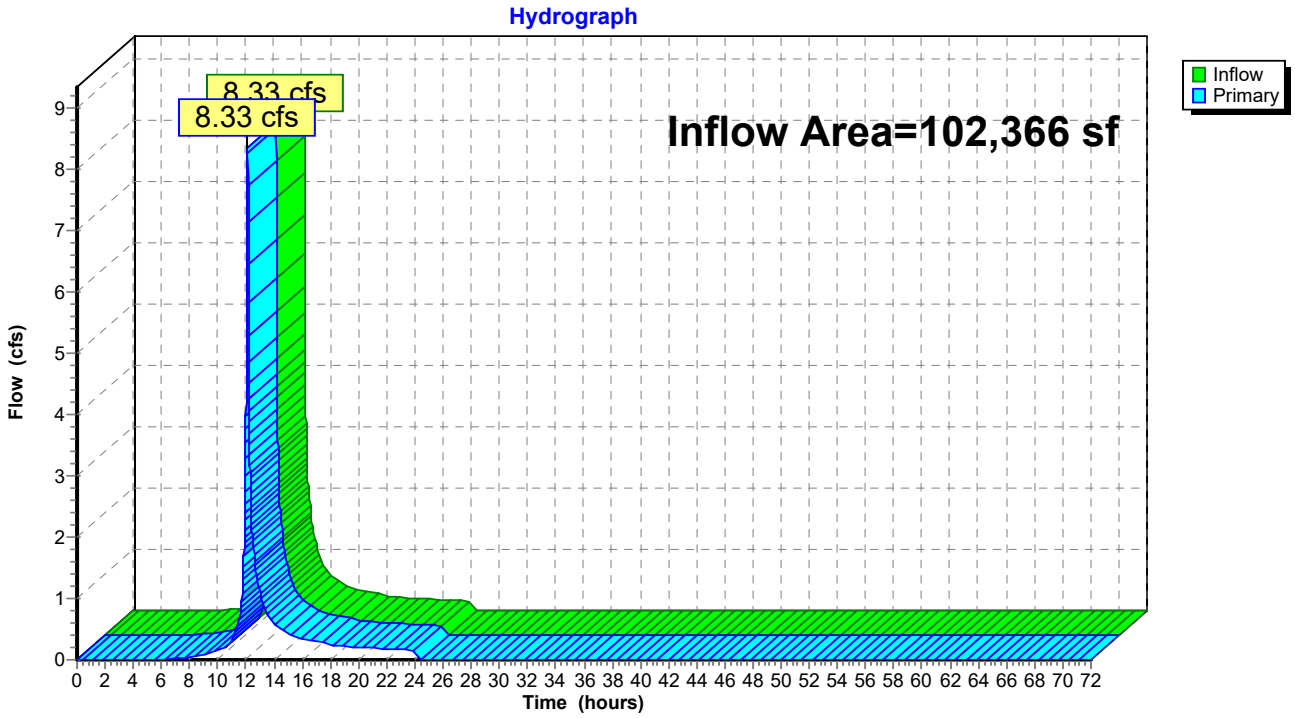
Summary for Pond 70P: DA3

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 102,366 sf, 1.70% Impervious, Inflow Depth = 3.22" for 100-year_current event
Inflow = 8.33 cfs @ 12.13 hrs, Volume= 27,475 cf
Primary = 8.33 cfs @ 12.13 hrs, Volume= 27,475 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 70P: DA3



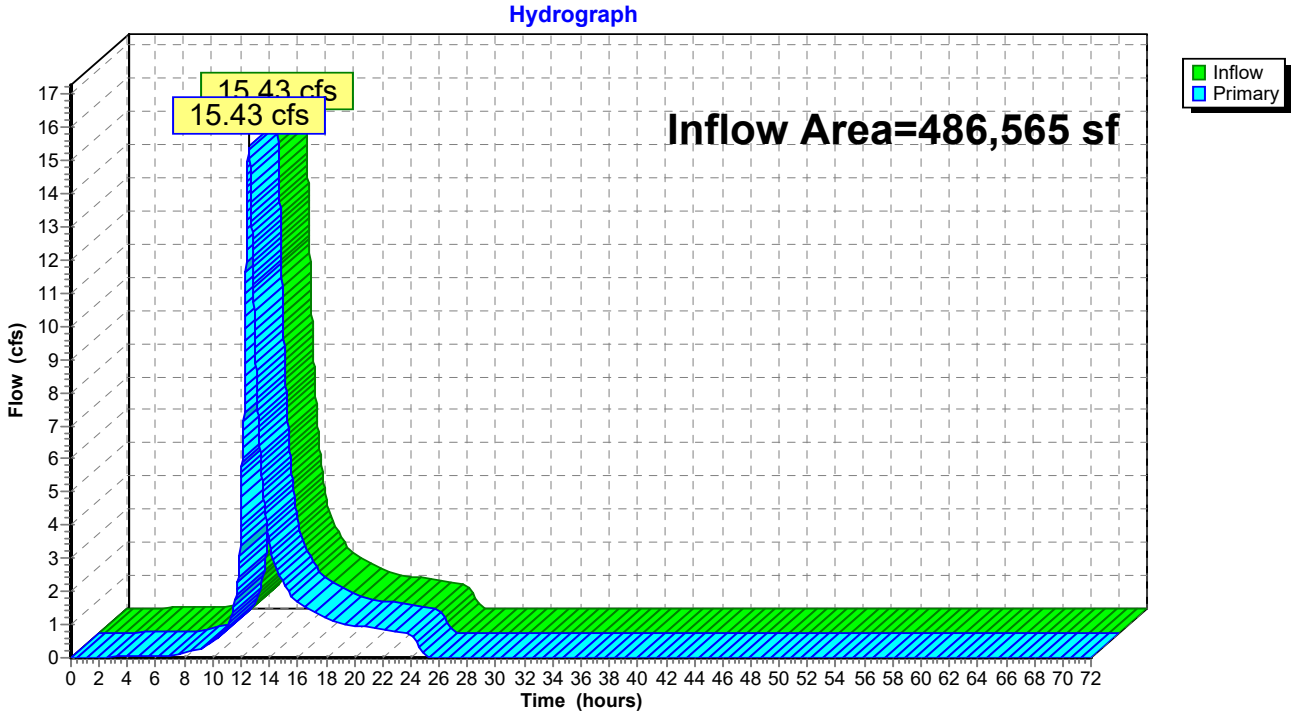
Summary for Pond 71P: DA1

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 486,565 sf, 2.24% Impervious, Inflow Depth = 2.98" for 100-year_current event
Inflow = 15.43 cfs @ 12.55 hrs, Volume= 120,767 cf
Primary = 15.43 cfs @ 12.55 hrs, Volume= 120,767 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 71P: DA1



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 34S: DA1 PER Runoff Area=10.920 ac 0.00% Impervious Runoff Depth=0.01"
Flow Length=531' Tc=38.3 min CN=WQ Runoff=0.16 cfs 546 cf

Subcatchment 63S: DA3 PER Runoff Area=2.310 ac 0.00% Impervious Runoff Depth=0.02"
Flow Length=295' Tc=5.2 min CN=WQ Runoff=0.07 cfs 145 cf

Subcatchment 64S: DA3 IMP Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=36' Slope=0.0050 '/' Tc=0.9 min CN=98 Runoff=0.12 cfs 150 cf

Subcatchment 66S: DA1 IMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=130' Slope=0.0050 '/' Tc=2.3 min CN=98 Runoff=0.77 cfs 939 cf

Subcatchment 67S: DA2 PER Runoff Area=20.380 ac 0.00% Impervious Runoff Depth=0.01"
Flow Length=781' Tc=16.5 min CN=WQ Runoff=0.39 cfs 1,080 cf

Subcatchment 68S: DA2 IMP Runoff Area=0.450 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=122' Slope=0.0050 '/' Tc=2.3 min CN=98 Runoff=1.38 cfs 1,690 cf

Pond 69P: DA2 Inflow=1.38 cfs 2,770 cf
Primary=1.38 cfs 2,770 cf

Pond 70P: DA3 Inflow=0.13 cfs 295 cf
Primary=0.13 cfs 295 cf

Pond 71P: DA1 Inflow=0.77 cfs 1,485 cf
Primary=0.77 cfs 1,485 cf

Total Runoff Area = 1,496,286 sf Runoff Volume = 4,550 cf Average Runoff Depth = 0.04"
97.85% Pervious = 1,464,052 sf 2.15% Impervious = 32,234 sf

Summary for Subcatchment 34S: DA1 PER

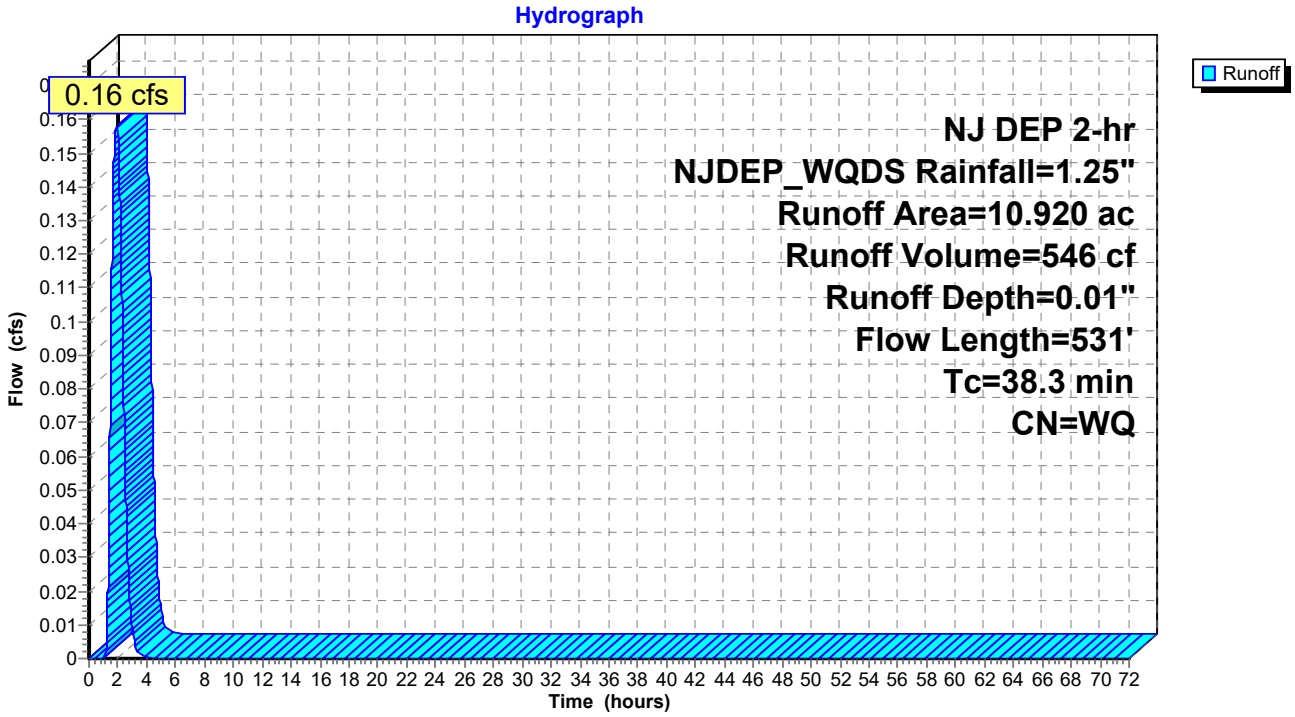
Runoff = 0.16 cfs @ 1.91 hrs, Volume= 546 cf, Depth= 0.01"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
7.980	39	>75% Grass cover, Good, HSG A
2.940	72	Dirt roads, HSG A
10.920		Weighted Average
10.920	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	62	0.0180	0.55		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
11.1	38	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 3.40"
0.2	5	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.3	146	0.0110	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.40"
2.0	89	0.0110	0.73		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	89	0.0040	0.44		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	102	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
38.3	531	Total			

Subcatchment 34S: DA1 PER



Summary for Subcatchment 63S: DA3 PER

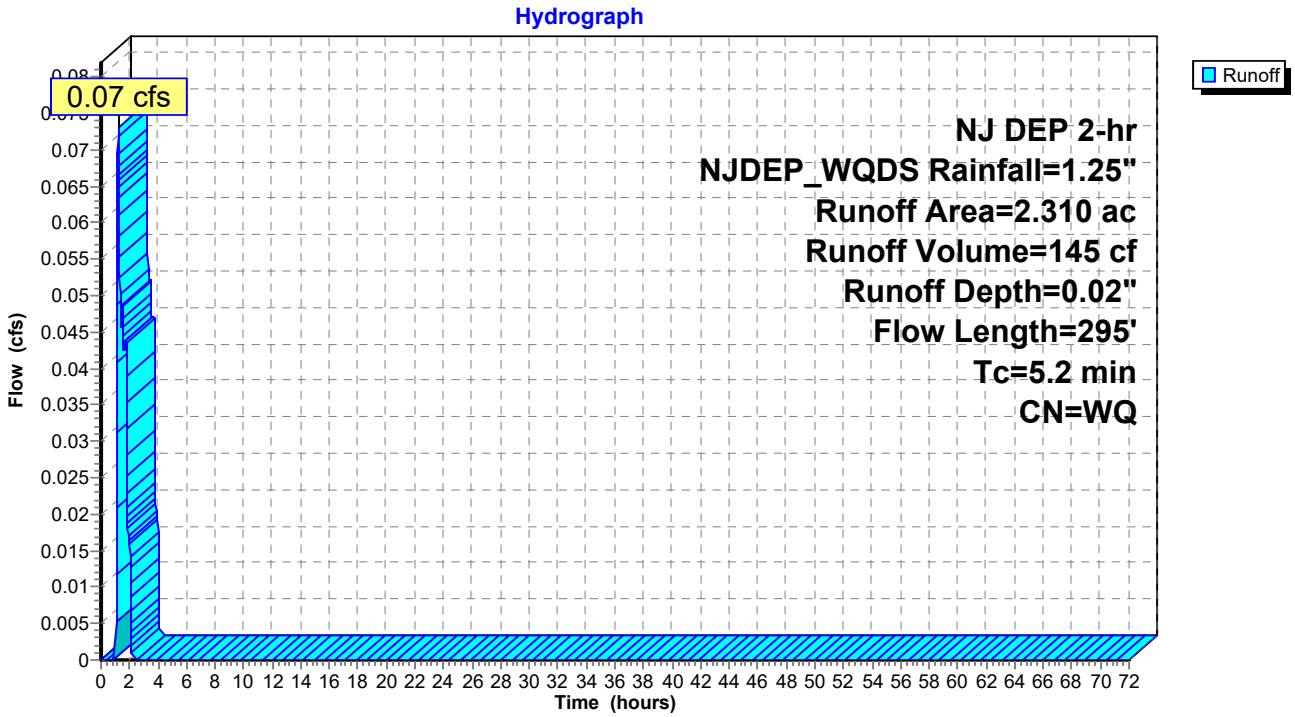
Runoff = 0.07 cfs @ 1.21 hrs, Volume= 145 cf, Depth= 0.02"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
1.530	39	>75% Grass cover, Good, HSG A
0.780	72	Dirt roads, HSG A
2.310		Weighted Average
2.310	50	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	99	0.0270	0.48		**Sheet Flow,** Fallow n= 0.050 P2= 3.40"
1.5	164	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	32	0.0290	2.74		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
5.2	295	Total			

Subcatchment 63S: DA3 PER



Summary for Subcatchment 64S: DA3 IMP

[49] Hint: Tc<2dt may require smaller dt

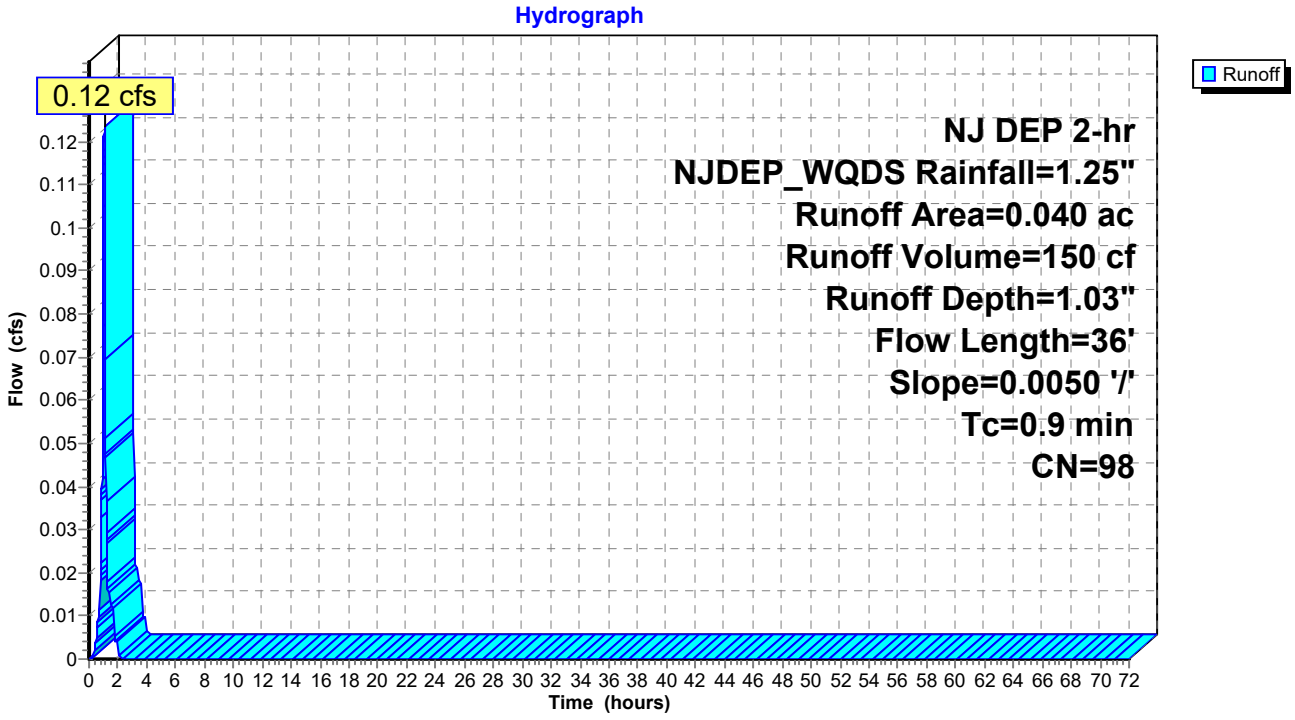
Runoff = 0.12 cfs @ 1.08 hrs, Volume= 150 cf, Depth= 1.03"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.040	98	
	0.040	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	36	0.0050	0.66		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"

Subcatchment 64S: DA3 IMP



Summary for Subcatchment 66S: DA1 IMP

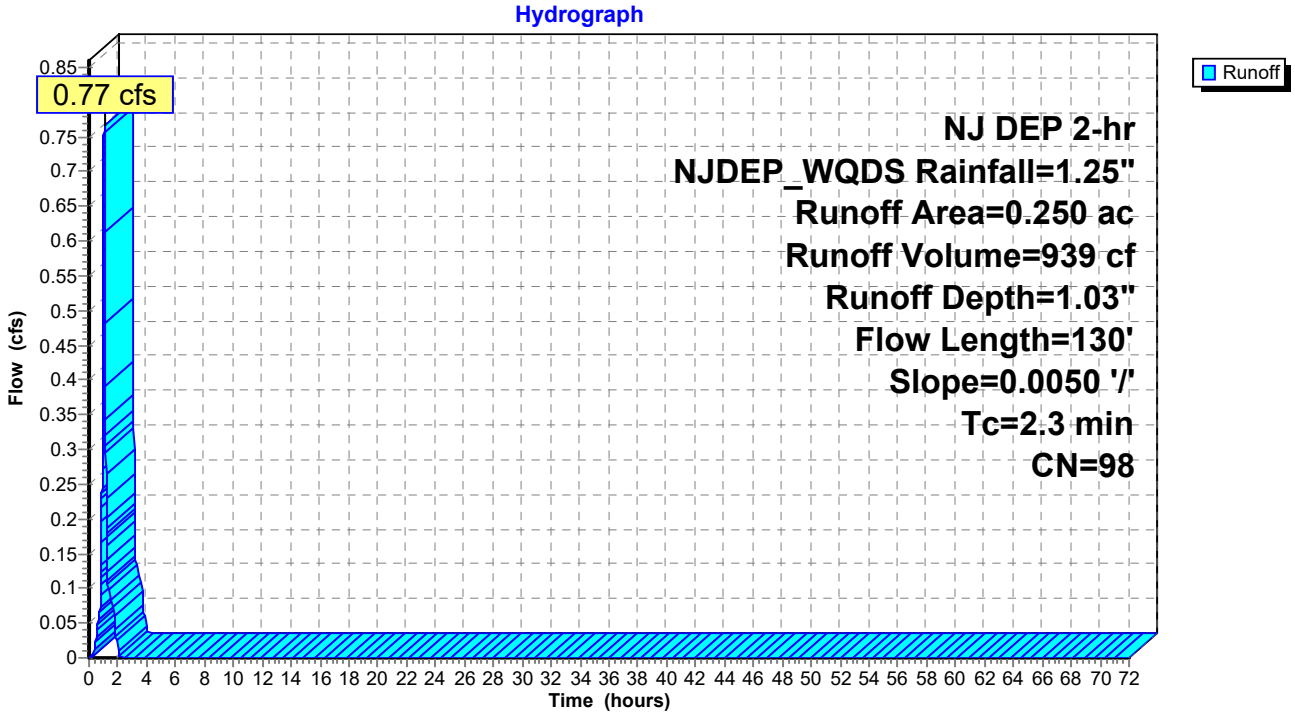
Runoff = 0.77 cfs @ 1.08 hrs, Volume= 939 cf, Depth= 1.03"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.250	98	
	0.250	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	100	0.0050	0.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.3	30	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.3	130	Total			

Subcatchment 66S: DA1 IMP



Summary for Subcatchment 67S: DA2 PER

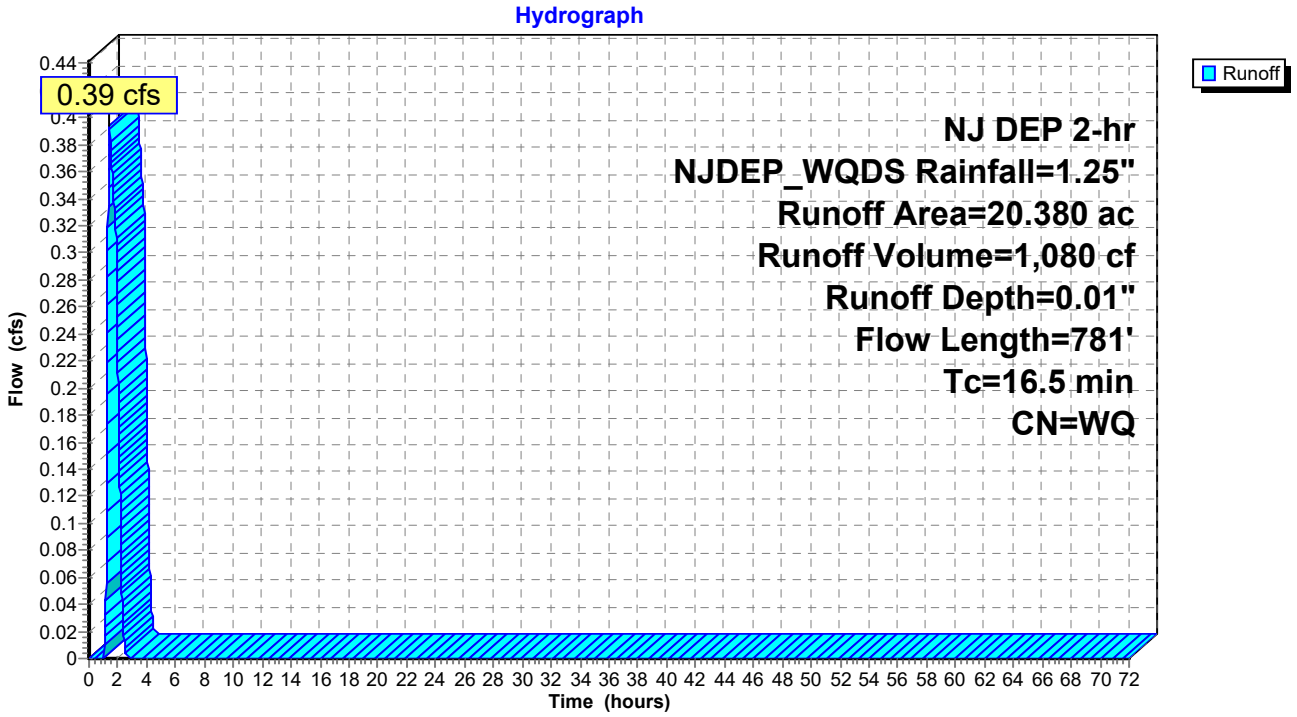
Runoff = 0.39 cfs @ 1.41 hrs, Volume= 1,080 cf, Depth= 0.01"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
14.560	39	>75% Grass cover, Good, HSG A
5.820	72	Dirt roads, HSG A
20.380		Weighted Average
20.380	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	85	0.0080	0.43		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
0.5	15	0.0250	0.48		**Sheet Flow, Dirt road** n= 0.030 P2= 3.40"
0.2	28	0.0250	2.55		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	50	0.0050	1.14		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.5	124	0.0410	1.42		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.0	270	0.0260	1.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	60	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.7	94	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	55	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.5	781	Total			

Subcatchment 67S: DA2 PER



Summary for Subcatchment 68S: DA2 IMP

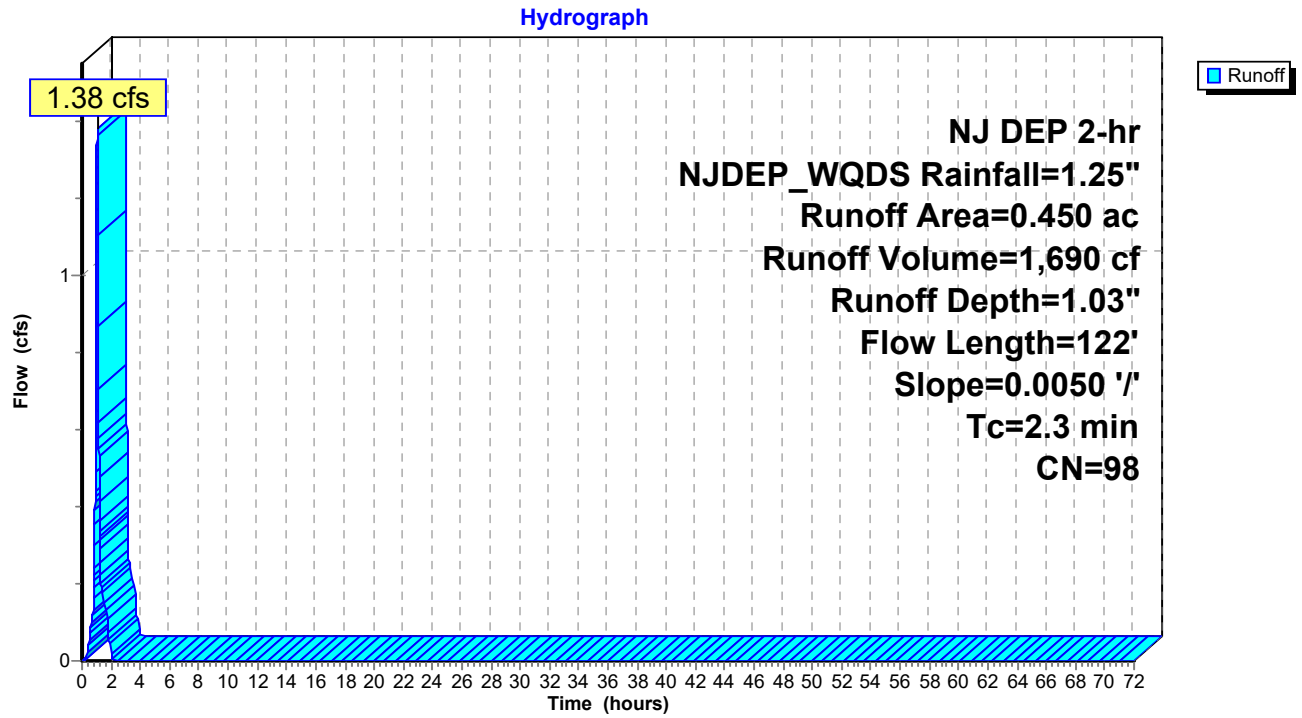
Runoff = 1.38 cfs @ 1.08 hrs, Volume= 1,690 cf, Depth= 1.03"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.450	98	
	0.450	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	100	0.0050	0.81		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.40"
0.3	22	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.3	122	Total			

Subcatchment 68S: DA2 IMP



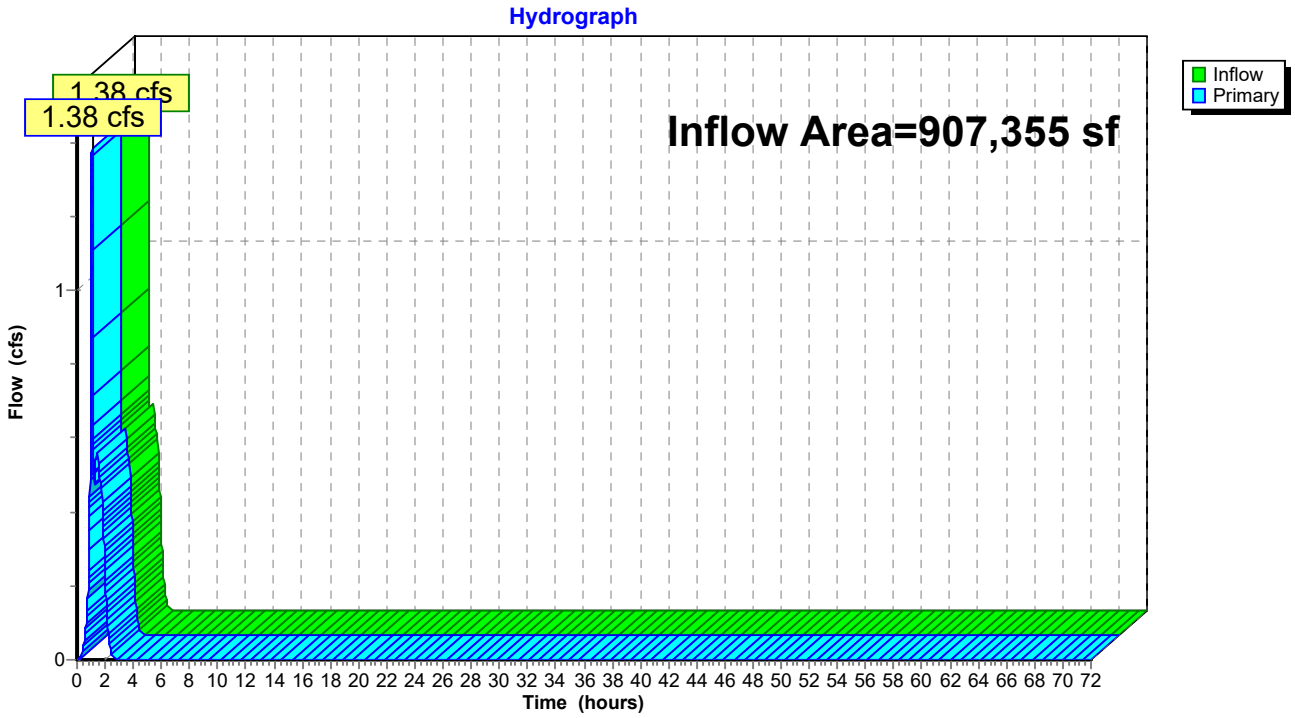
Summary for Pond 69P: DA2

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 907,355 sf, 2.16% Impervious, Inflow Depth = 0.04" for NJDEP_WQDS event
Inflow = 1.38 cfs @ 1.08 hrs, Volume= 2,770 cf
Primary = 1.38 cfs @ 1.08 hrs, Volume= 2,770 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 69P: DA2



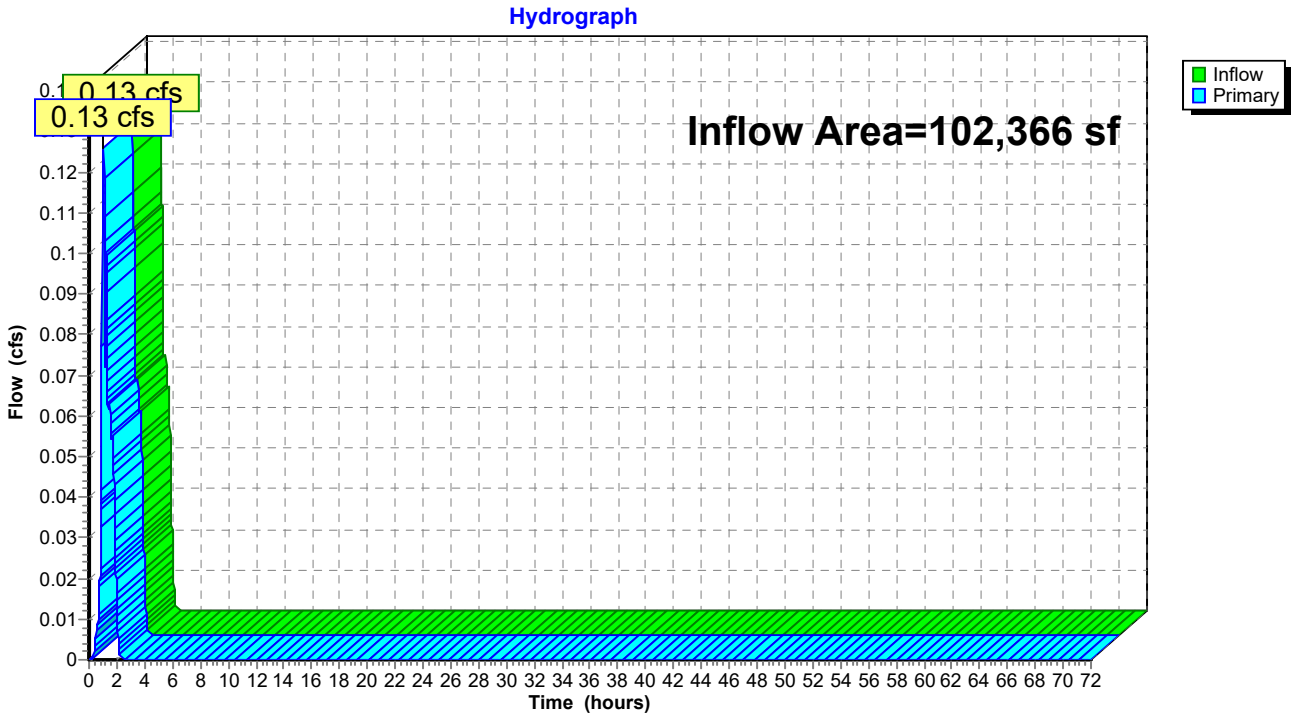
Summary for Pond 70P: DA3

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 102,366 sf, 1.70% Impervious, Inflow Depth = 0.03" for NJDEP_WQDS event
Inflow = 0.13 cfs @ 1.08 hrs, Volume= 295 cf
Primary = 0.13 cfs @ 1.08 hrs, Volume= 295 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 70P: DA3



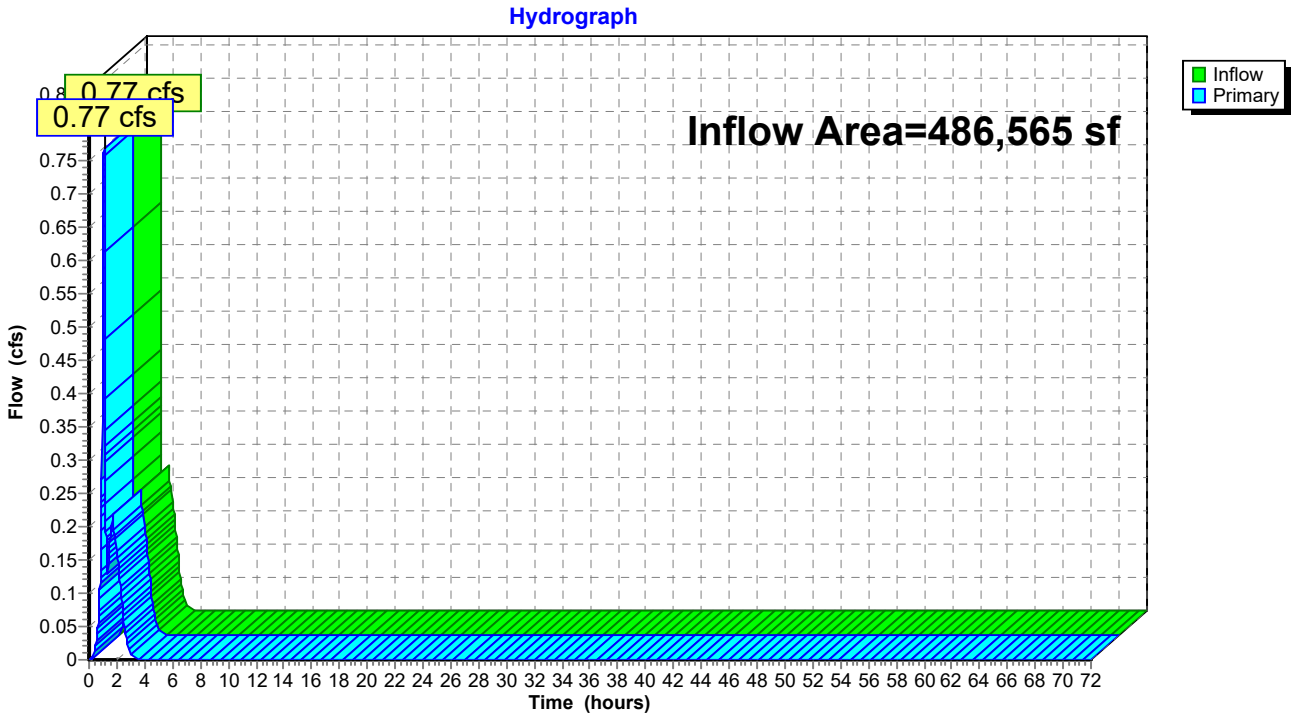
Summary for Pond 71P: DA1

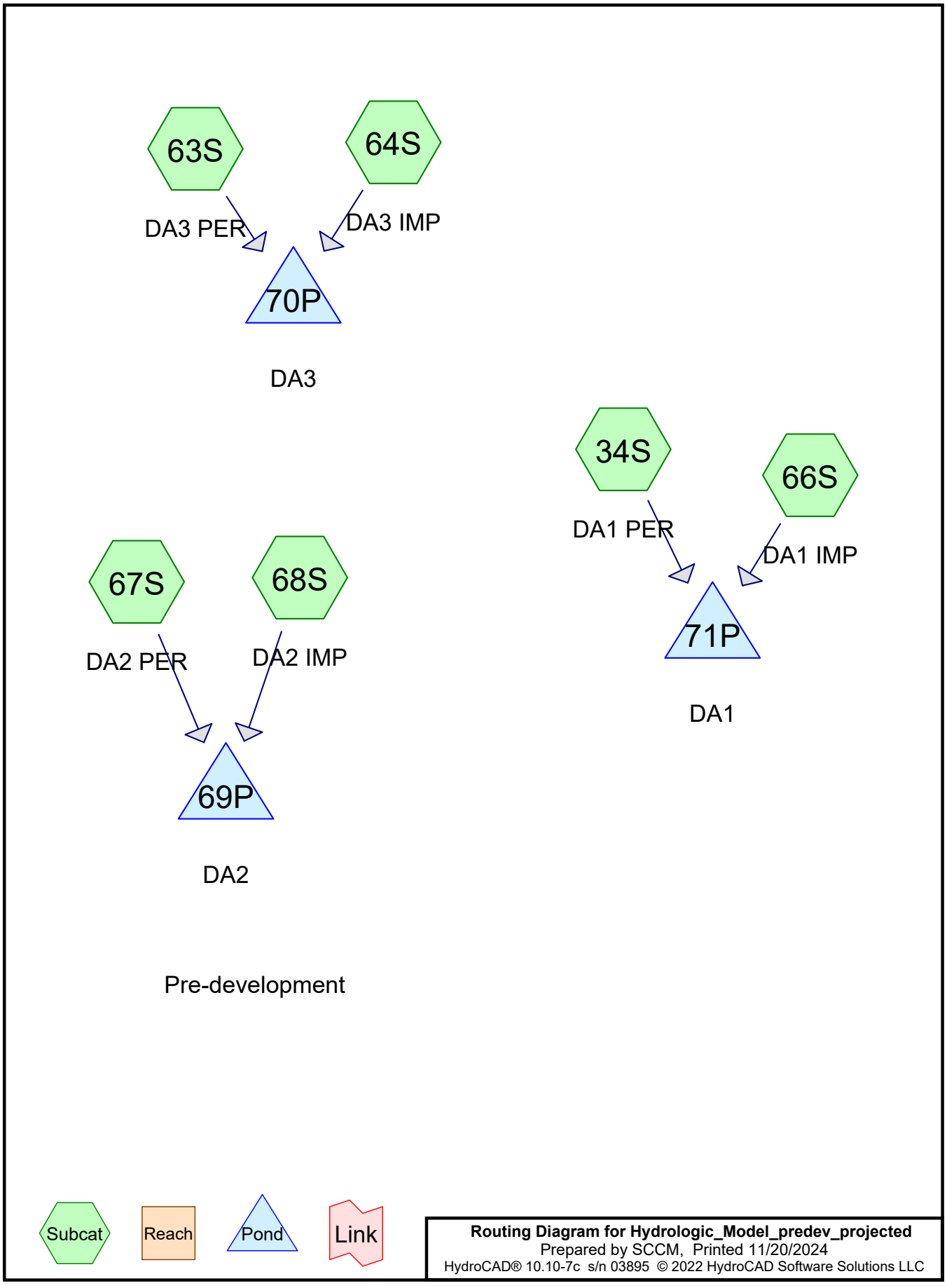
[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 486,565 sf, 2.24% Impervious, Inflow Depth = 0.04" for NJDEP_WQDS event
Inflow = 0.77 cfs @ 1.08 hrs, Volume= 1,485 cf
Primary = 0.77 cfs @ 1.08 hrs, Volume= 1,485 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 71P: DA1





Routing Diagram for Hydrologic_Model_predev_projected
Prepared by SCCM, Printed 11/20/2024
HydroCAD® 10.10-7c s/n 03895 © 2022 HydroCAD Software Solutions LLC

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-year_projected	NOAA 24-hr	D	Default	24.00	1	4.01	2
2	10-year_projected	NOAA 24-hr	D	Default	24.00	1	6.26	2
3	100-year_projected	NOAA 24-hr	D	Default	24.00	1	11.17	2
4	NJDEP_WQDS	NJ DEP 2-hr		Default	2.00	1	1.25	2

Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
32,234	98	(64S, 66S, 68S)
1,048,489	39	>75% Grass cover, Good, HSG A (34S, 63S, 67S)
415,562	72	Dirt roads, HSG A (34S, 63S, 67S)
1,496,286	**49**	**TOTAL AREA**

Soil Listing (all nodes)

Area (sq-ft)	Soil Group	Subcatchment Numbers
1,464,052	HSG A	34S, 63S, 67S
0	HSG B	
0	HSG C	
0	HSG D	
32,234	Other	64S, 66S, 68S
1,496,286		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (sq-ft)	HSG-B (sq-ft)	HSG-C (sq-ft)	HSG-D (sq-ft)	Other (sq-ft)	Total (sq-ft)	Ground Cover	Sub Num
0	0	0	0	32,234	32,234		
1,048,489	0	0	0	0	1,048,489	>75% Grass cover, Good	
415,562	0	0	0	0	415,562	Dirt roads	
1,464,052	**0**	**0**	**0**	**32,234**	**1,496,286**	**TOTAL AREA**	

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 34S: DA1 PER Runoff Area=10.920 ac 0.00% Impervious Runoff Depth=0.43"
Flow Length=531' Tc=35.9 min CN=WQ Runoff=2.35 cfs 17,020 cf

Subcatchment 63S: DA3 PER Runoff Area=2.310 ac 0.00% Impervious Runoff Depth=0.53"
Flow Length=295' Tc=4.9 min CN=WQ Runoff=1.40 cfs 4,415 cf

Subcatchment 64S: DA3 IMP Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=3.78"
Flow Length=36' Slope=0.0050 '/' Tc=0.8 min CN=98 Runoff=0.17 cfs 548 cf

Subcatchment 66S: DA1 IMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=3.78"
Flow Length=130' Slope=0.0050 '/' Tc=2.2 min CN=98 Runoff=1.05 cfs 3,426 cf

Subcatchment 67S: DA2 PER Runoff Area=20.380 ac 0.00% Impervious Runoff Depth=0.45"
Flow Length=781' Tc=16.3 min CN=WQ Runoff=6.91 cfs 33,482 cf

Subcatchment 68S: DA2 IMP Runoff Area=0.450 ac 100.00% Impervious Runoff Depth=3.78"
Flow Length=122' Slope=0.0050 '/' Tc=2.2 min CN=98 Runoff=1.88 cfs 6,167 cf

Pond 69P: DA2 Inflow=7.39 cfs 39,648 cf
Primary=7.39 cfs 39,648 cf

Pond 70P: DA3 Inflow=1.48 cfs 4,963 cf
Primary=1.48 cfs 4,963 cf

Pond 71P: DA1 Inflow=2.53 cfs 20,446 cf
Primary=2.53 cfs 20,446 cf

Total Runoff Area = 1,496,286 sf Runoff Volume = 65,058 cf Average Runoff Depth = 0.52"
97.85% Pervious = 1,464,052 sf 2.15% Impervious = 32,234 sf

Summary for Subcatchment 34S: DA1 PER

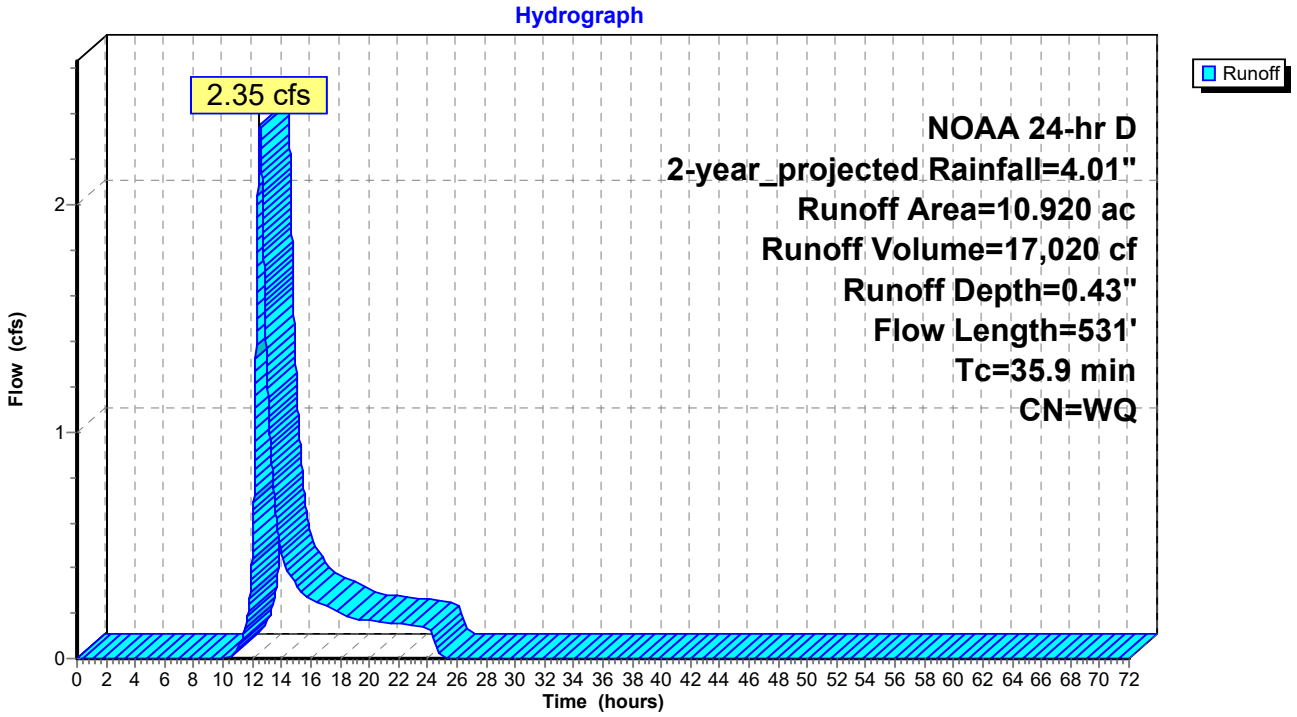
Runoff = 2.35 cfs @ 12.52 hrs, Volume= 17,020 cf, Depth= 0.43"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

Area (ac)	CN	Description
7.980	39	>75% Grass cover, Good, HSG A
2.940	72	Dirt roads, HSG A
10.920		Weighted Average
10.920	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	62	0.0180	0.60		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
10.2	38	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
0.2	5	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.0	146	0.0110	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 4.01"
2.0	89	0.0110	0.73		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	89	0.0040	0.44		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	102	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
35.9	531	Total			

Subcatchment 34S: DA1 PER



Summary for Subcatchment 63S: DA3 PER

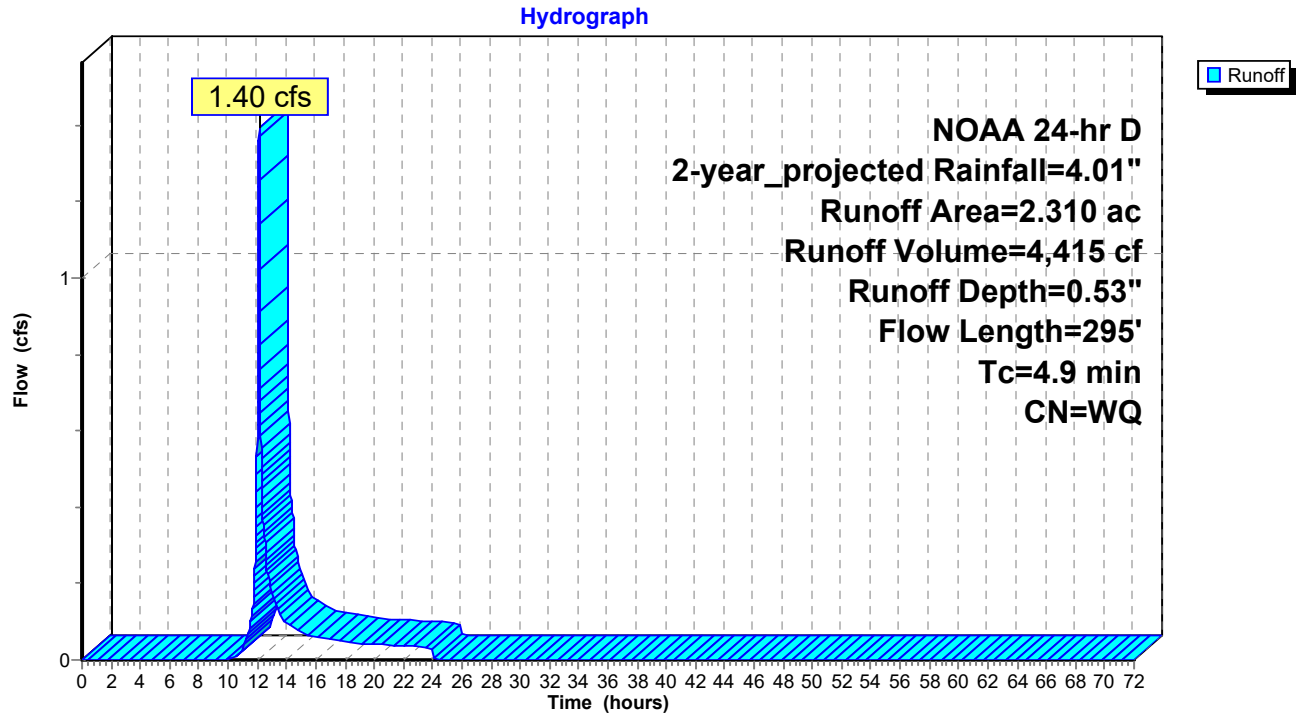
Runoff = 1.40 cfs @ 12.13 hrs, Volume= 4,415 cf, Depth= 0.53"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

Area (ac)	CN	Description
1.530	39	>75% Grass cover, Good, HSG A
0.780	72	Dirt roads, HSG A
2.310		Weighted Average
2.310	50	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	99	0.0270	0.52		**Sheet Flow,** Fallow n= 0.050 P2= 4.01"
1.5	164	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	32	0.0290	2.74		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
4.9	295	Total			

Subcatchment 63S: DA3 PER



Summary for Subcatchment 64S: DA3 IMP

[49] Hint: Tc<2dt may require smaller dt

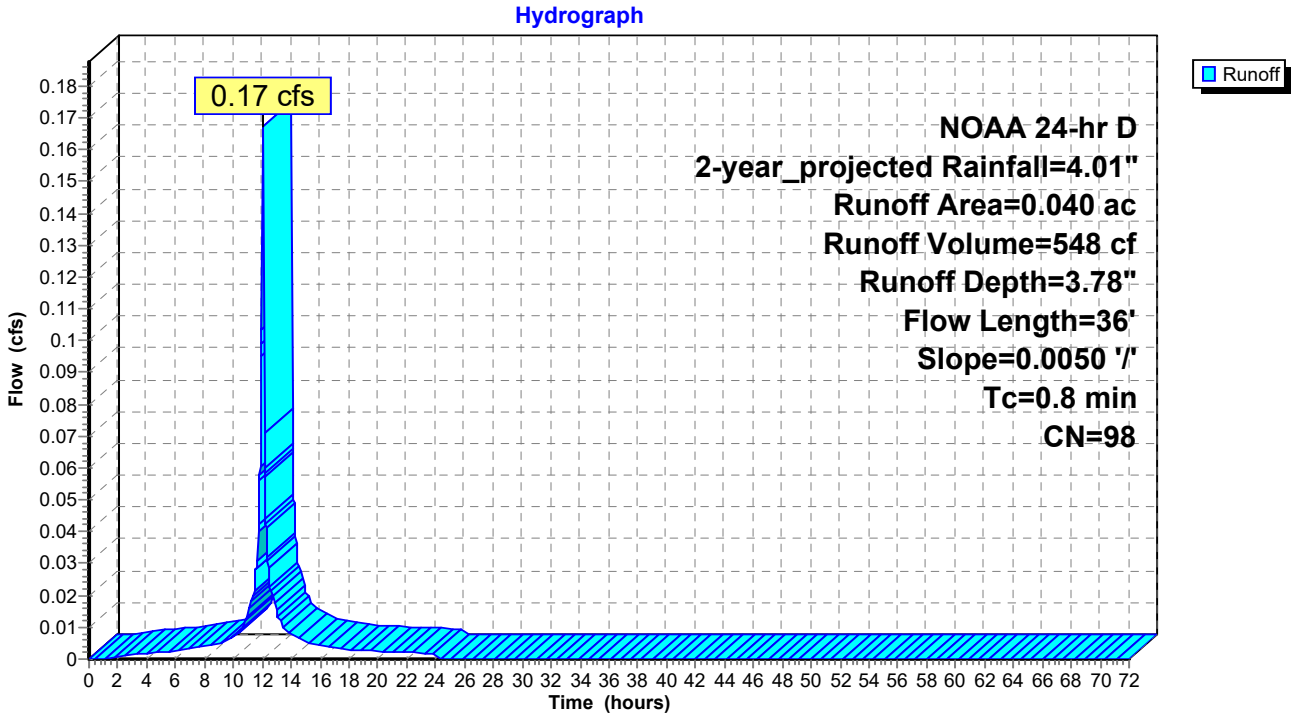
Runoff = 0.17 cfs @ 12.09 hrs, Volume= 548 cf, Depth= 3.78"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.040	98	
	0.040	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	36	0.0050	0.72		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"

Subcatchment 64S: DA3 IMP



Summary for Subcatchment 66S: DA1 IMP

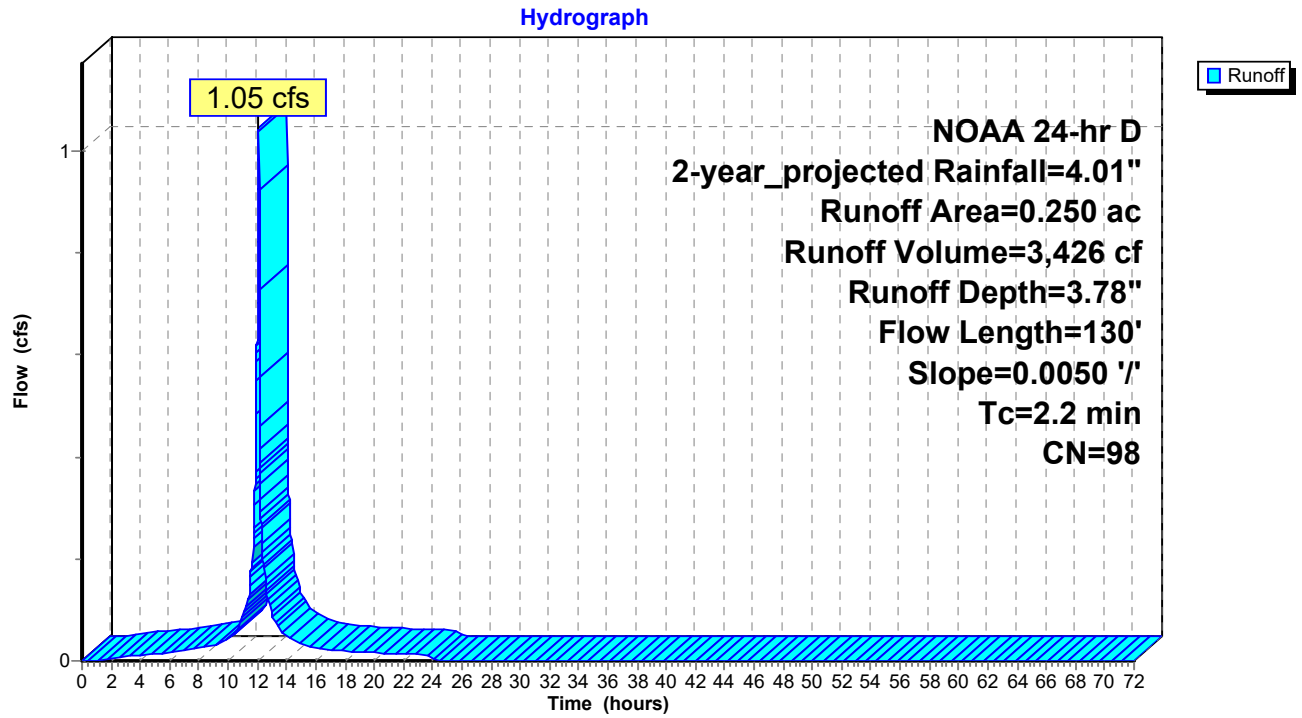
Runoff = 1.05 cfs @ 12.10 hrs, Volume= 3,426 cf, Depth= 3.78"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.250	98	
	0.250	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	100	0.0050	0.88		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.3	30	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	130	Total			

Subcatchment 66S: DA1 IMP



Summary for Subcatchment 67S: DA2 PER

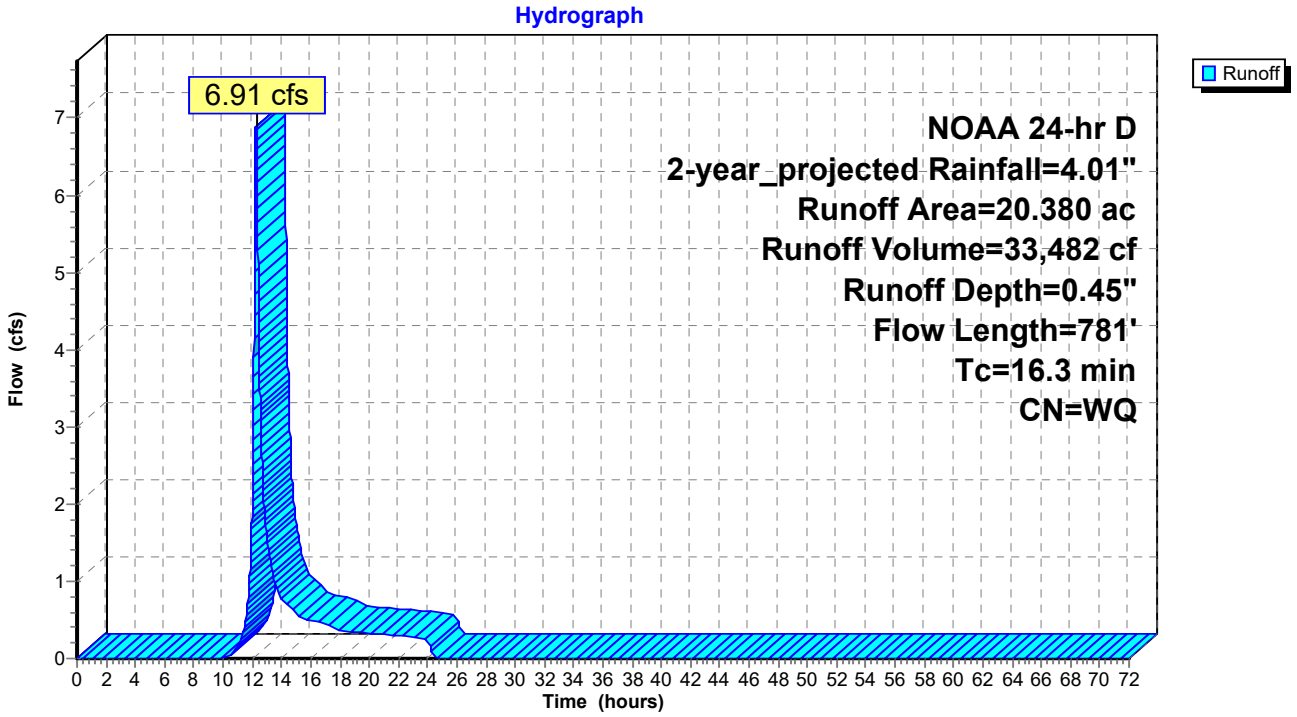
Runoff = 6.91 cfs @ 12.26 hrs, Volume= 33,482 cf, Depth= 0.45"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

Area (ac)	CN	Description
14.560	39	>75% Grass cover, Good, HSG A
5.820	72	Dirt roads, HSG A
20.380		Weighted Average
20.380	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	85	0.0080	0.46		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
0.5	15	0.0250	0.52		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
0.2	28	0.0250	2.55		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	50	0.0050	1.14		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.5	124	0.0410	1.42		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.0	270	0.0260	1.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	60	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.7	94	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	55	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.3	781	Total			

Subcatchment 67S: DA2 PER



Summary for Subcatchment 68S: DA2 IMP

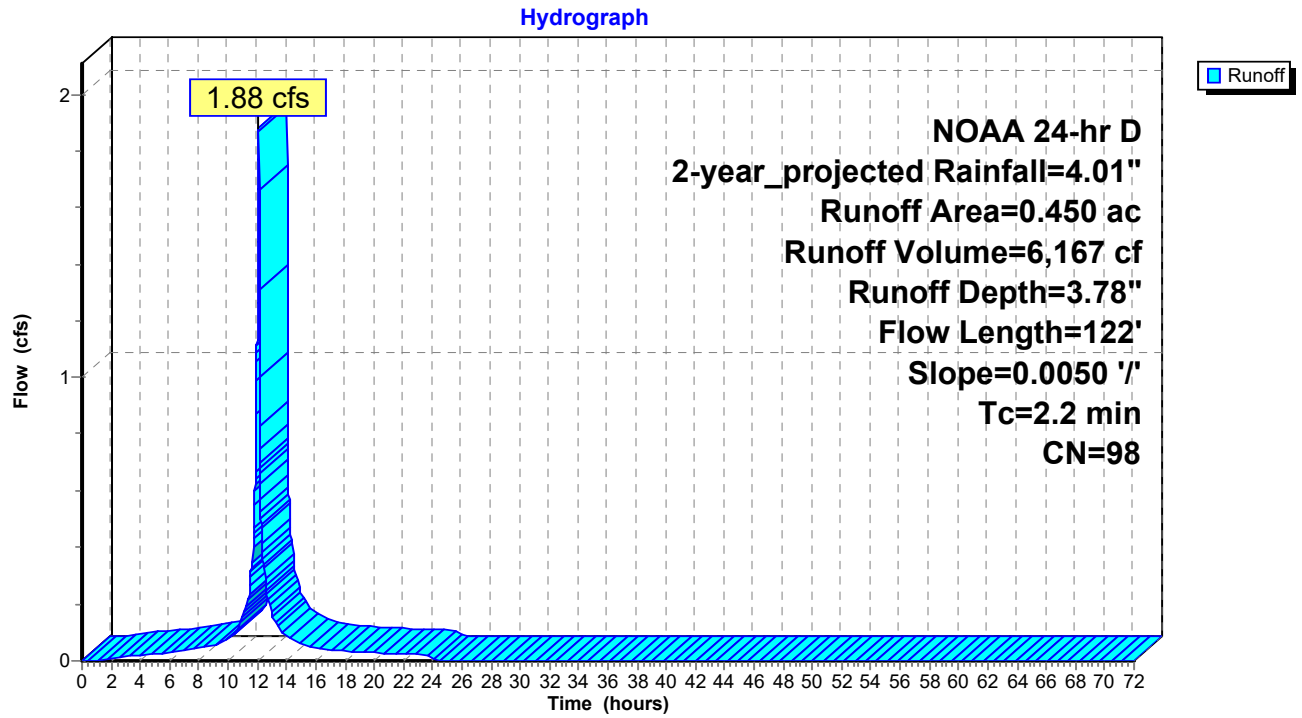
Runoff = 1.88 cfs @ 12.10 hrs, Volume= 6,167 cf, Depth= 3.78"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 2-year_projected Rainfall=4.01"

	Area (ac)	CN	Description
*	0.450	98	
	0.450	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	100	0.0050	0.88		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.3	22	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	122	Total			

Subcatchment 68S: DA2 IMP



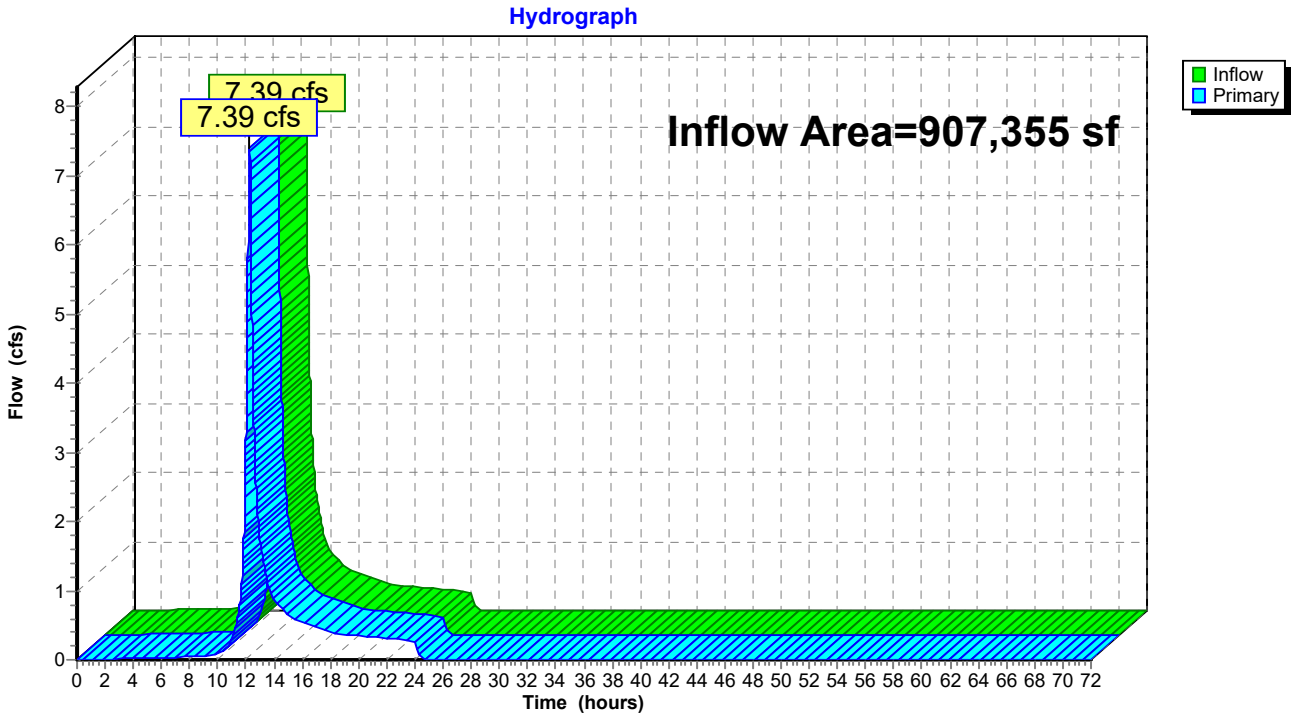
Summary for Pond 69P: DA2

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 907,355 sf, 2.16% Impervious, Inflow Depth = 0.52" for 2-year_projected event
Inflow = 7.39 cfs @ 12.25 hrs, Volume= 39,648 cf
Primary = 7.39 cfs @ 12.25 hrs, Volume= 39,648 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 69P: DA2



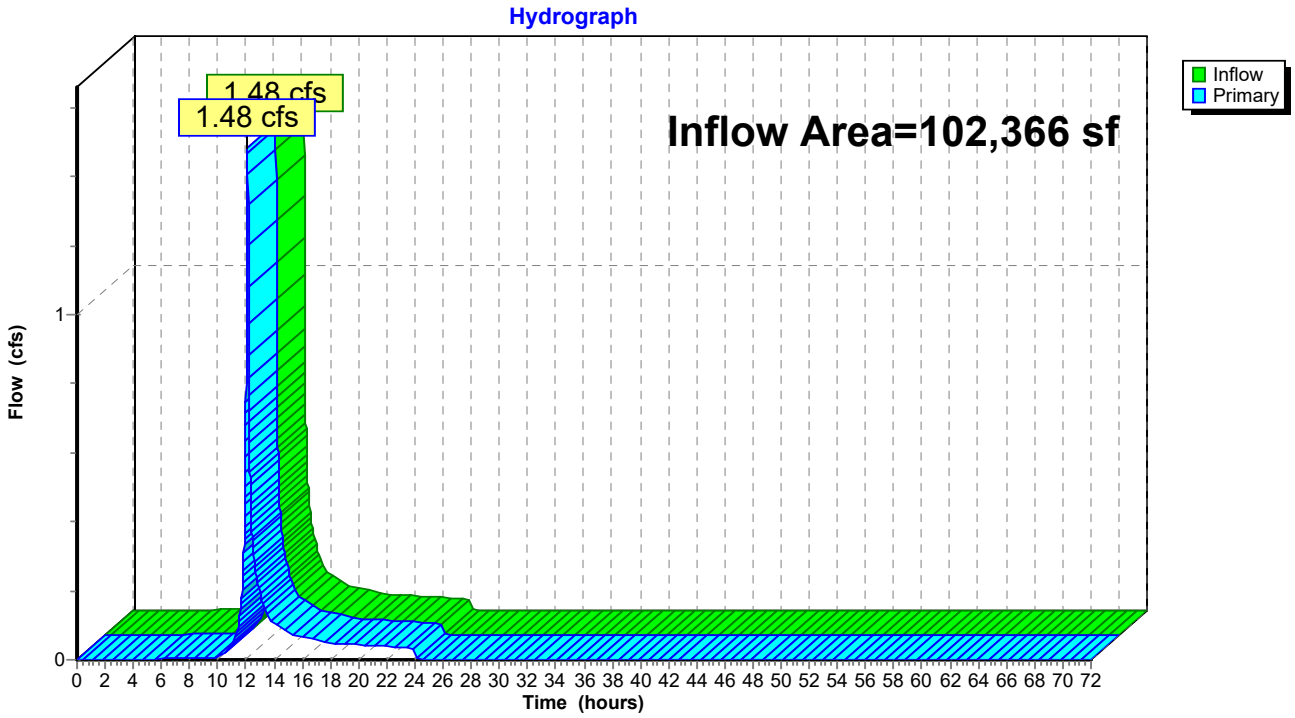
Summary for Pond 70P: DA3

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 102,366 sf, 1.70% Impervious, Inflow Depth = 0.58" for 2-year_projected event
Inflow = 1.48 cfs @ 12.11 hrs, Volume= 4,963 cf
Primary = 1.48 cfs @ 12.11 hrs, Volume= 4,963 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 70P: DA3



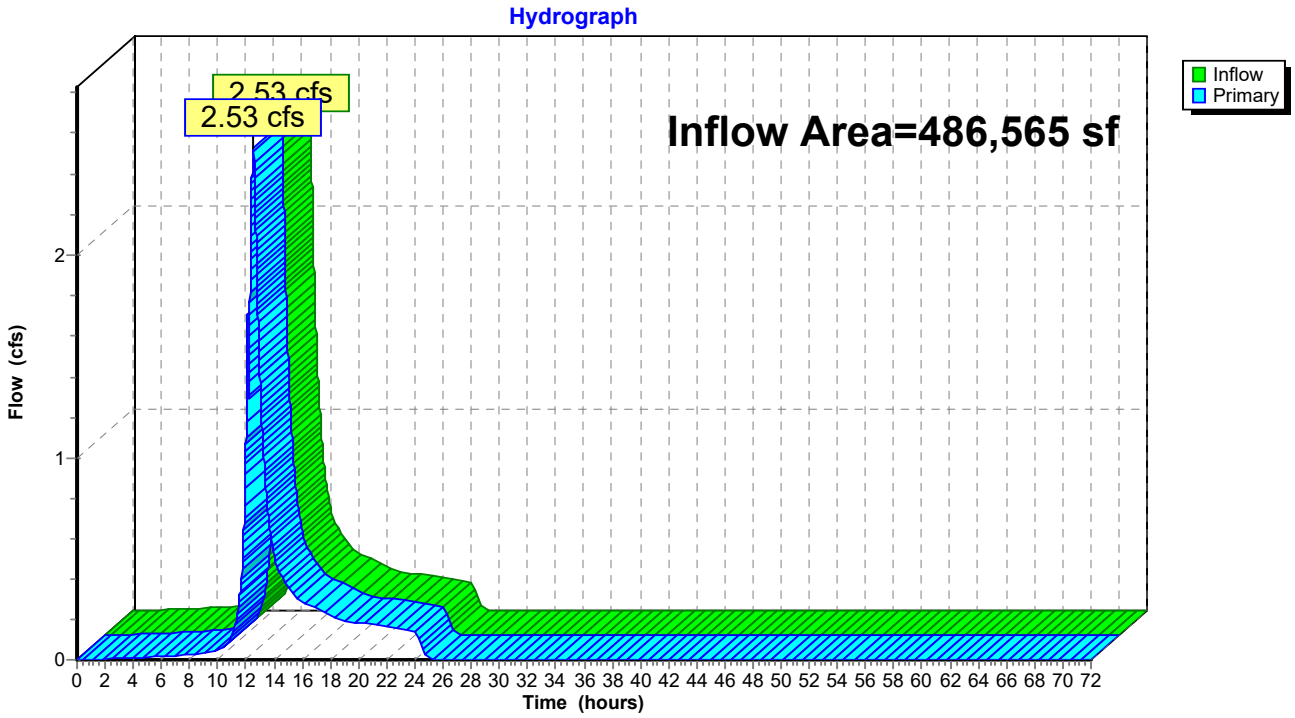
Summary for Pond 71P: DA1

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 486,565 sf, 2.24% Impervious, Inflow Depth = 0.50" for 2-year_projected event
Inflow = 2.53 cfs @ 12.51 hrs, Volume= 20,446 cf
Primary = 2.53 cfs @ 12.51 hrs, Volume= 20,446 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 71P: DA1



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 34S: DA1 PER Runoff Area=10.920 ac 0.00% Impervious Runoff Depth=1.25"
Flow Length=531' Tc=35.9 min CN=WQ Runoff=6.03 cfs 49,362 cf

Subcatchment 63S: DA3 PER Runoff Area=2.310 ac 0.00% Impervious Runoff Depth=1.43"
Flow Length=295' Tc=4.9 min CN=WQ Runoff=3.36 cfs 11,983 cf

Subcatchment 64S: DA3 IMP Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=6.02"
Flow Length=36' Slope=0.0050 '/' Tc=0.8 min CN=98 Runoff=0.26 cfs 874 cf

Subcatchment 66S: DA1 IMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=6.02"
Flow Length=130' Slope=0.0050 '/' Tc=2.2 min CN=98 Runoff=1.64 cfs 5,465 cf

Subcatchment 67S: DA2 PER Runoff Area=20.380 ac 0.00% Impervious Runoff Depth=1.29"
Flow Length=781' Tc=16.3 min CN=WQ Runoff=17.02 cfs 95,370 cf

Subcatchment 68S: DA2 IMP Runoff Area=0.450 ac 100.00% Impervious Runoff Depth=6.02"
Flow Length=122' Slope=0.0050 '/' Tc=2.2 min CN=98 Runoff=2.95 cfs 9,836 cf

Pond 69P: DA2 Inflow=17.78 cfs 105,207 cf
Primary=17.78 cfs 105,207 cf

Pond 70P: DA3 Inflow=3.45 cfs 12,857 cf
Primary=3.45 cfs 12,857 cf

Pond 71P: DA1 Inflow=6.29 cfs 54,827 cf
Primary=6.29 cfs 54,827 cf

Total Runoff Area = 1,496,286 sf Runoff Volume = 172,890 cf Average Runoff Depth = 1.39"
97.85% Pervious = 1,464,052 sf 2.15% Impervious = 32,234 sf

Summary for Subcatchment 34S: DA1 PER

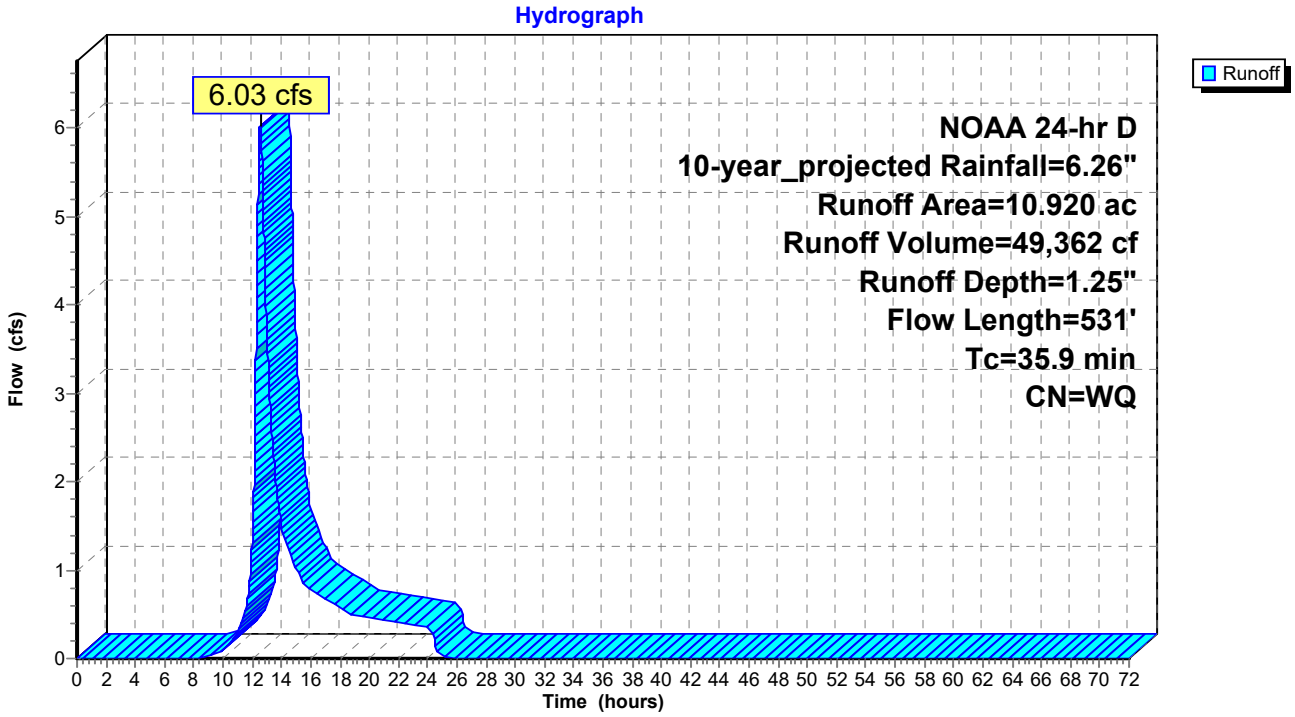
Runoff = 6.03 cfs @ 12.56 hrs, Volume= 49,362 cf, Depth= 1.25"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

Area (ac)	CN	Description
7.980	39	>75% Grass cover, Good, HSG A
2.940	72	Dirt roads, HSG A
10.920		Weighted Average
10.920	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	62	0.0180	0.60		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
10.2	38	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
0.2	5	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.0	146	0.0110	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 4.01"
2.0	89	0.0110	0.73		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	89	0.0040	0.44		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	102	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
35.9	531	Total			

Subcatchment 34S: DA1 PER



Summary for Subcatchment 63S: DA3 PER

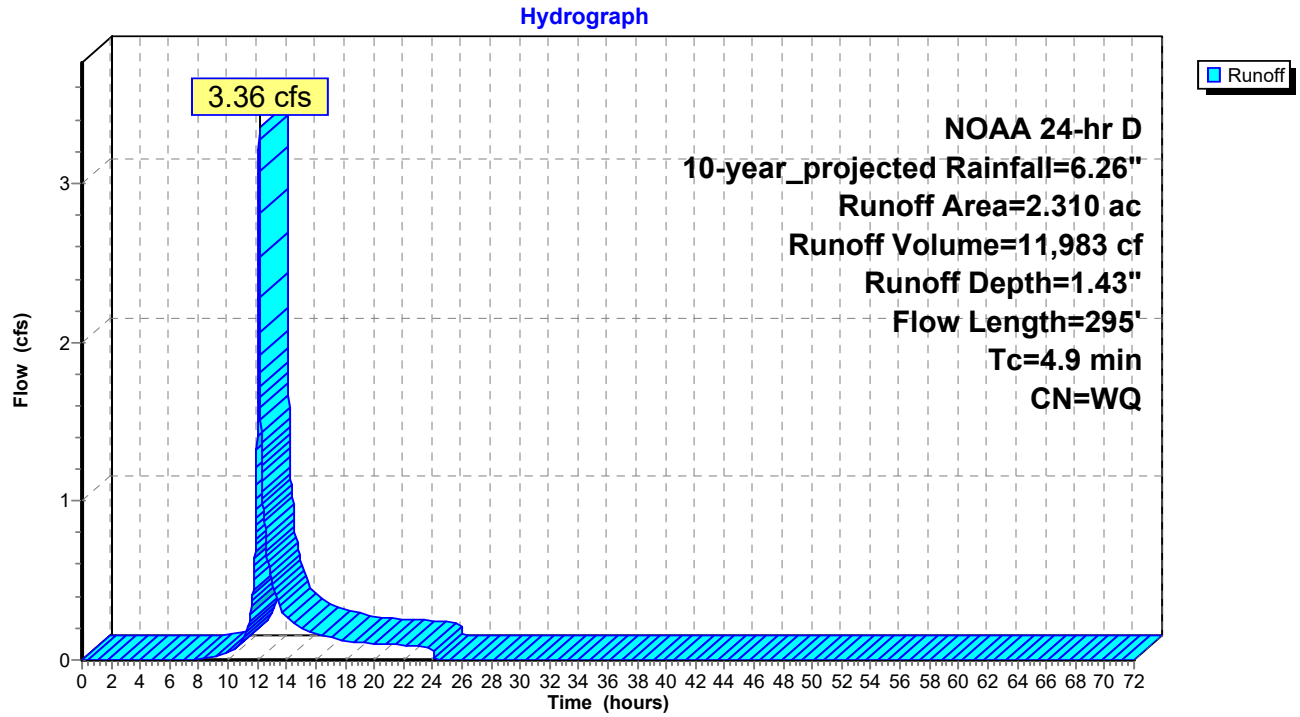
Runoff = 3.36 cfs @ 12.13 hrs, Volume= 11,983 cf, Depth= 1.43"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

Area (ac)	CN	Description
1.530	39	>75% Grass cover, Good, HSG A
0.780	72	Dirt roads, HSG A
2.310		Weighted Average
2.310	50	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	99	0.0270	0.52		**Sheet Flow,** Fallow n= 0.050 P2= 4.01"
1.5	164	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	32	0.0290	2.74		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
4.9	295	Total			

Subcatchment 63S: DA3 PER



Summary for Subcatchment 64S: DA3 IMP

[49] Hint: Tc<2dt may require smaller dt

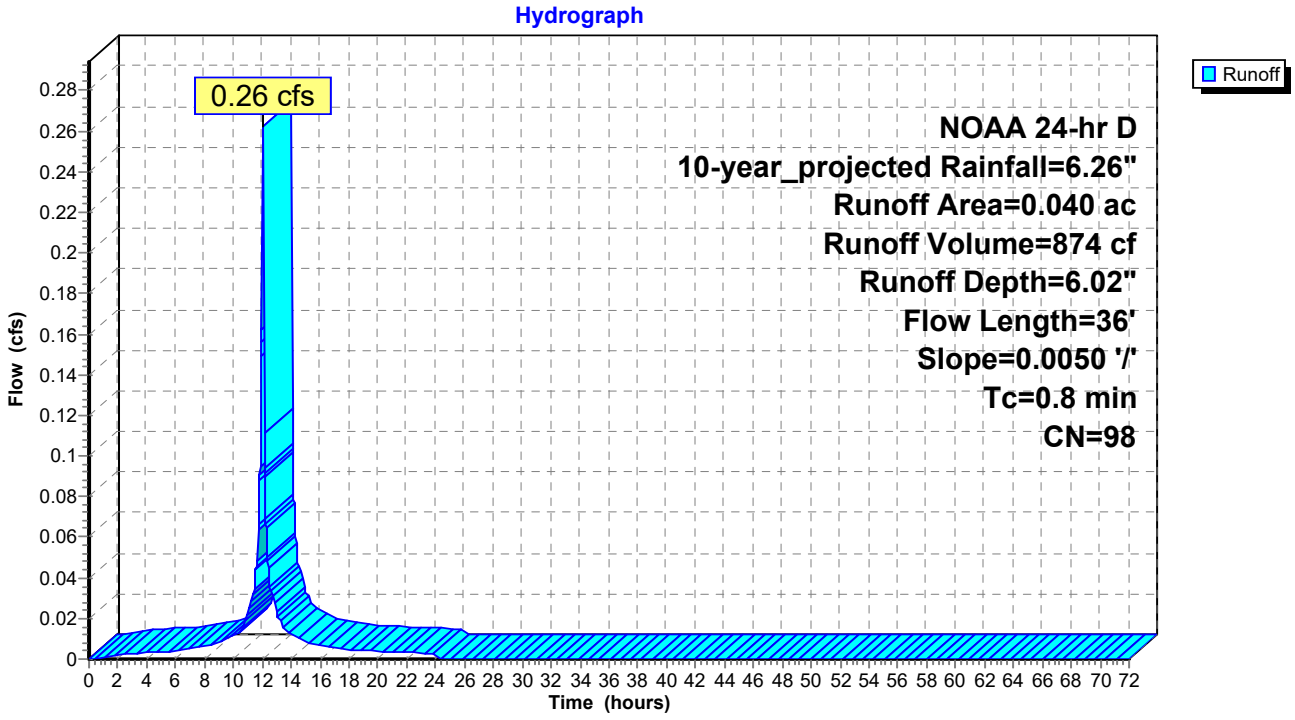
Runoff = 0.26 cfs @ 12.09 hrs, Volume= 874 cf, Depth= 6.02"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.040	98	
	0.040	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	36	0.0050	0.72		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"

Subcatchment 64S: DA3 IMP



Summary for Subcatchment 66S: DA1 IMP

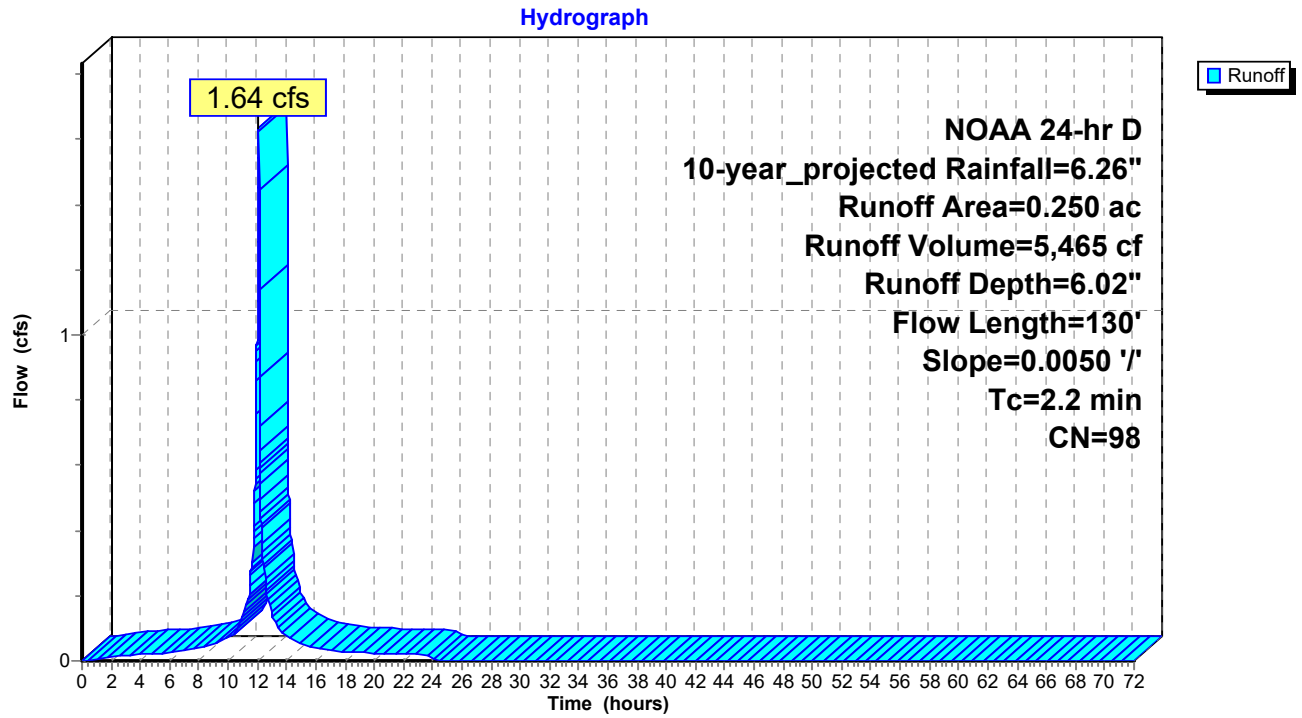
Runoff = 1.64 cfs @ 12.10 hrs, Volume= 5,465 cf, Depth= 6.02"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.250	98	
	0.250	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	100	0.0050	0.88		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.3	30	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	130	Total			

Subcatchment 66S: DA1 IMP



Summary for Subcatchment 67S: DA2 PER

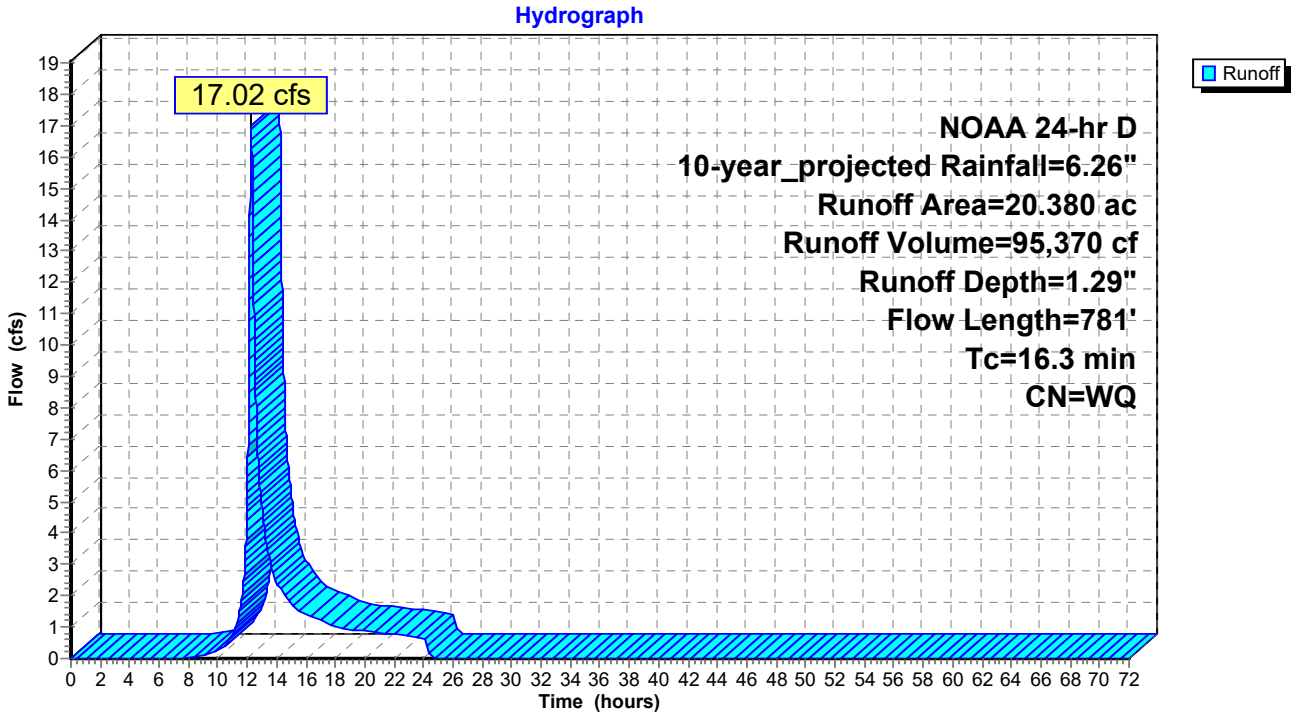
Runoff = 17.02 cfs @ 12.26 hrs, Volume= 95,370 cf, Depth= 1.29"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

Area (ac)	CN	Description
14.560	39	>75% Grass cover, Good, HSG A
5.820	72	Dirt roads, HSG A
20.380		Weighted Average
20.380	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	85	0.0080	0.46		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
0.5	15	0.0250	0.52		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
0.2	28	0.0250	2.55		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	50	0.0050	1.14		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.5	124	0.0410	1.42		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.0	270	0.0260	1.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	60	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.7	94	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	55	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.3	781	Total			

Subcatchment 67S: DA2 PER



Summary for Subcatchment 68S: DA2 IMP

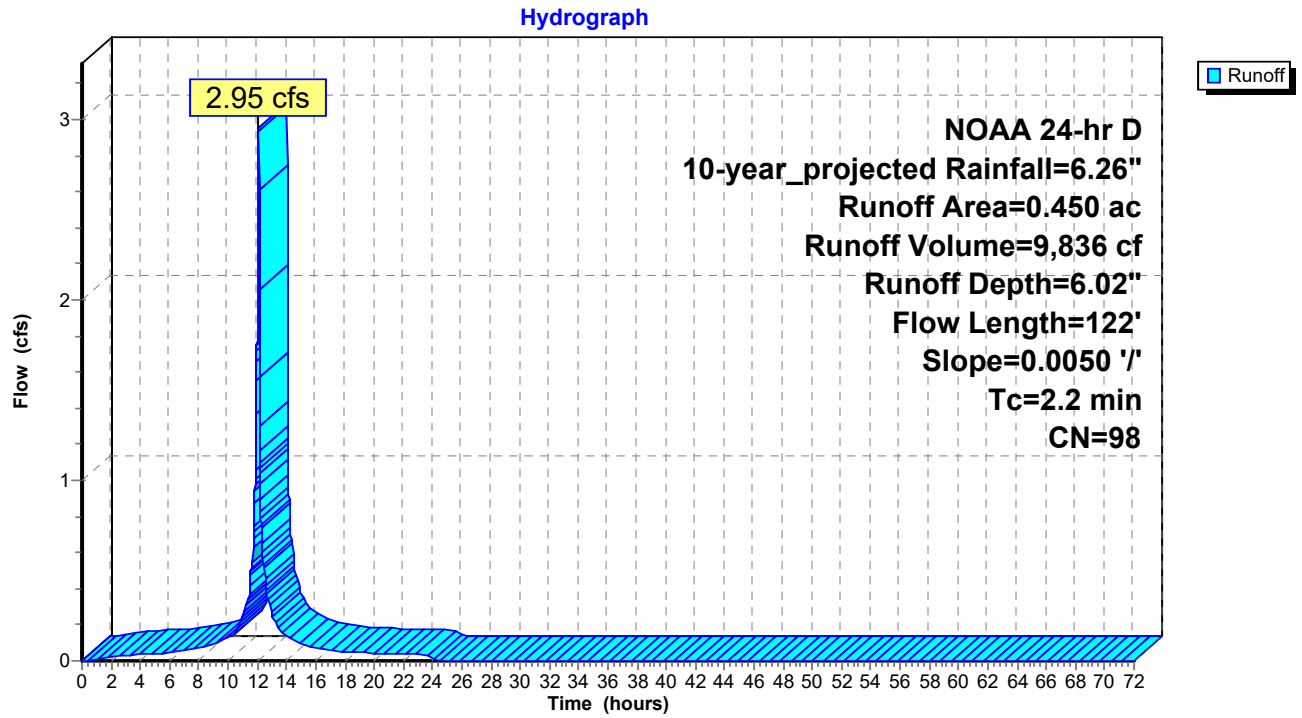
Runoff = 2.95 cfs @ 12.10 hrs, Volume= 9,836 cf, Depth= 6.02"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 10-year_projected Rainfall=6.26"

	Area (ac)	CN	Description
*	0.450	98	
	0.450	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	100	0.0050	0.88		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.3	22	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	122	Total			

Subcatchment 68S: DA2 IMP



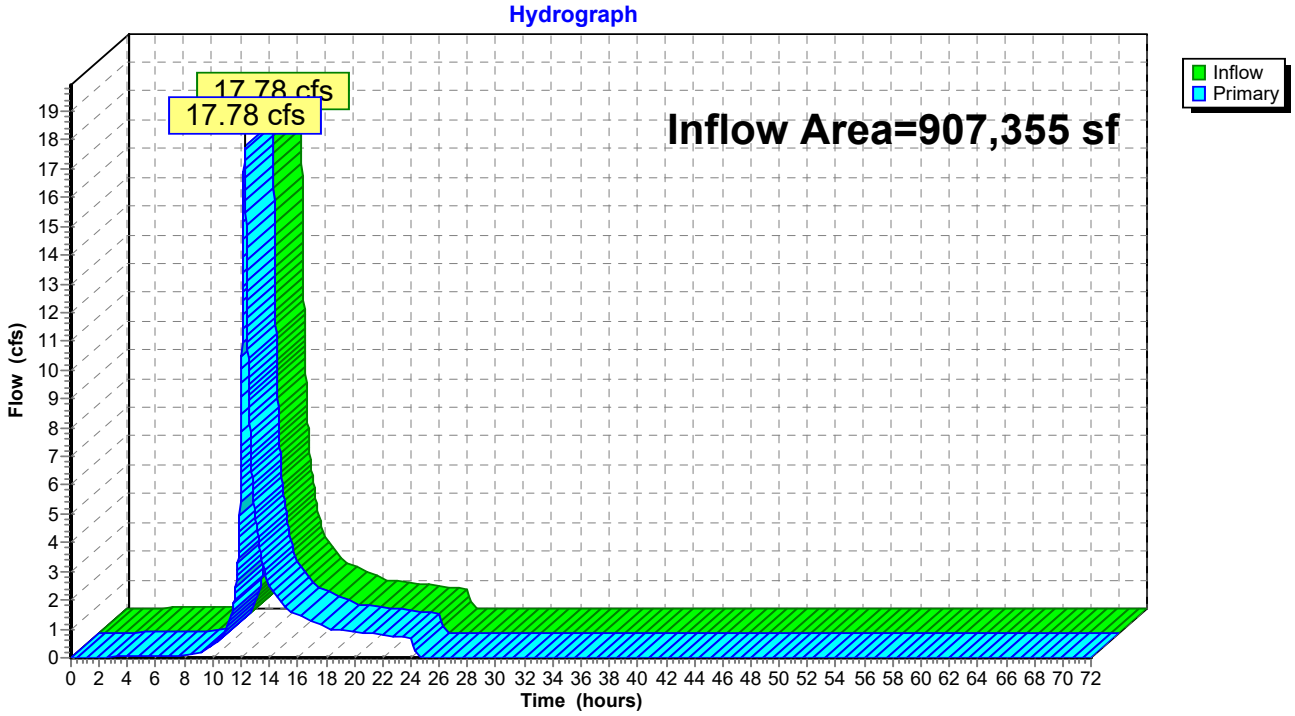
Summary for Pond 69P: DA2

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 907,355 sf, 2.16% Impervious, Inflow Depth = 1.39" for 10-year_projected event
Inflow = 17.78 cfs @ 12.26 hrs, Volume= 105,207 cf
Primary = 17.78 cfs @ 12.26 hrs, Volume= 105,207 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 69P: DA2



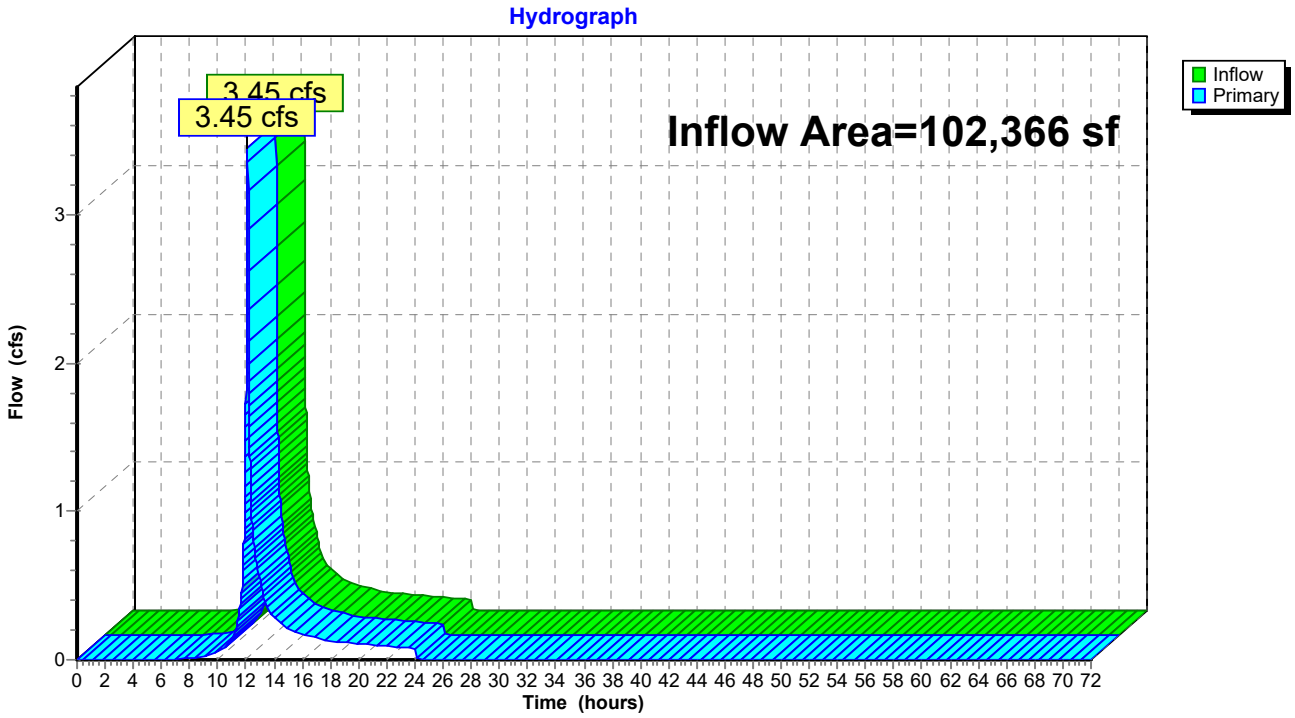
Summary for Pond 70P: DA3

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 102,366 sf, 1.70% Impervious, Inflow Depth = 1.51" for 10-year_projected event
Inflow = 3.45 cfs @ 12.13 hrs, Volume= 12,857 cf
Primary = 3.45 cfs @ 12.13 hrs, Volume= 12,857 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 70P: DA3



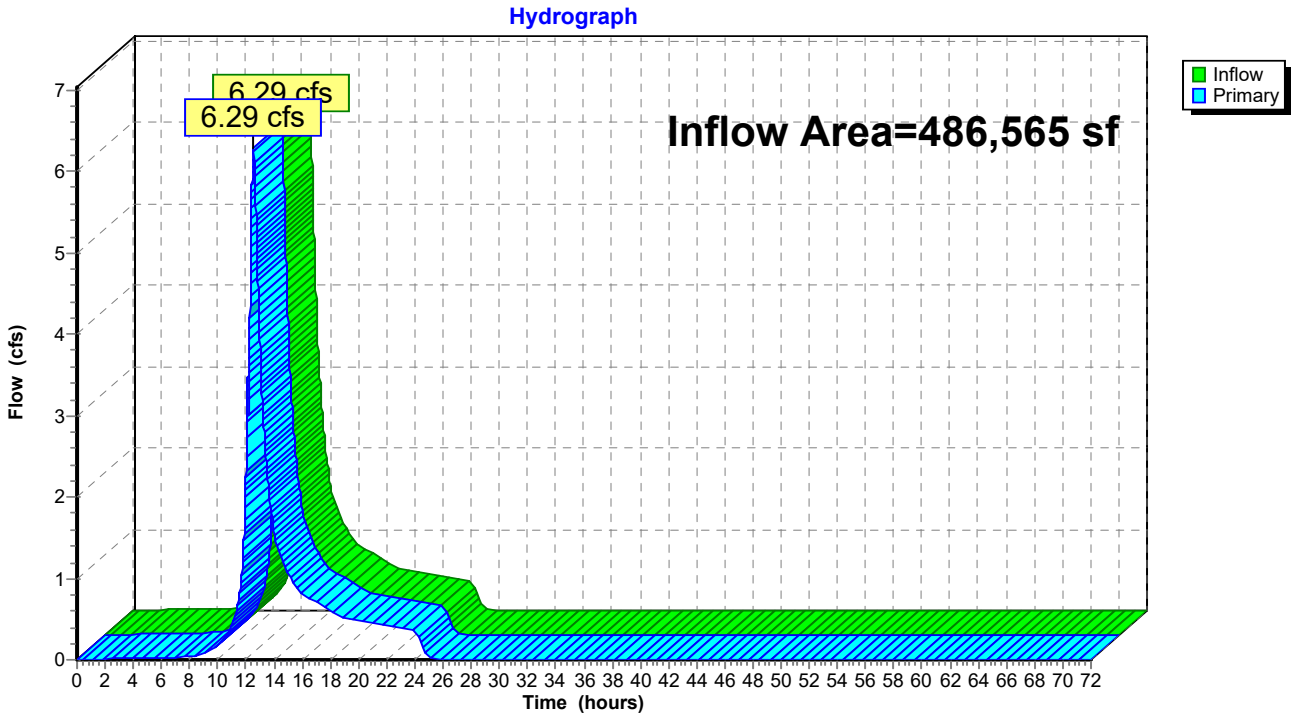
Summary for Pond 71P: DA1

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 486,565 sf, 2.24% Impervious, Inflow Depth = 1.35" for 10-year_projected event
Inflow = 6.29 cfs @ 12.52 hrs, Volume= 54,827 cf
Primary = 6.29 cfs @ 12.52 hrs, Volume= 54,827 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 71P: DA1



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 34S: DA1 PER Runoff Area=10.920 ac 0.00% Impervious Runoff Depth=4.03"
Flow Length=531' Tc=35.9 min CN=WQ Runoff=23.11 cfs 159,808 cf

Subcatchment 63S: DA3 PER Runoff Area=2.310 ac 0.00% Impervious Runoff Depth=4.36"
Flow Length=295' Tc=4.9 min CN=WQ Runoff=11.82 cfs 36,578 cf

Subcatchment 64S: DA3 IMP Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=10.93"
Flow Length=36' Slope=0.0050 '/' Tc=0.8 min CN=98 Runoff=0.47 cfs 1,587 cf

Subcatchment 66S: DA1 IMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=10.93"
Flow Length=130' Slope=0.0050 '/' Tc=2.2 min CN=98 Runoff=2.93 cfs 9,918 cf

Subcatchment 67S: DA2 PER Runoff Area=20.380 ac 0.00% Impervious Runoff Depth=4.11"
Flow Length=781' Tc=16.3 min CN=WQ Runoff=65.26 cfs 304,091 cf

Subcatchment 68S: DA2 IMP Runoff Area=0.450 ac 100.00% Impervious Runoff Depth=10.93"
Flow Length=122' Slope=0.0050 '/' Tc=2.2 min CN=98 Runoff=5.28 cfs 17,852 cf

Pond 69P: DA2 Inflow=66.64 cfs 321,943 cf
Primary=66.64 cfs 321,943 cf

Pond 70P: DA3 Inflow=11.99 cfs 38,165 cf
Primary=11.99 cfs 38,165 cf

Pond 71P: DA1 Inflow=23.60 cfs 169,725 cf
Primary=23.60 cfs 169,725 cf

Total Runoff Area = 1,496,286 sf Runoff Volume = 529,833 cf Average Runoff Depth = 4.25"
97.85% Pervious = 1,464,052 sf 2.15% Impervious = 32,234 sf

Summary for Subcatchment 34S: DA1 PER

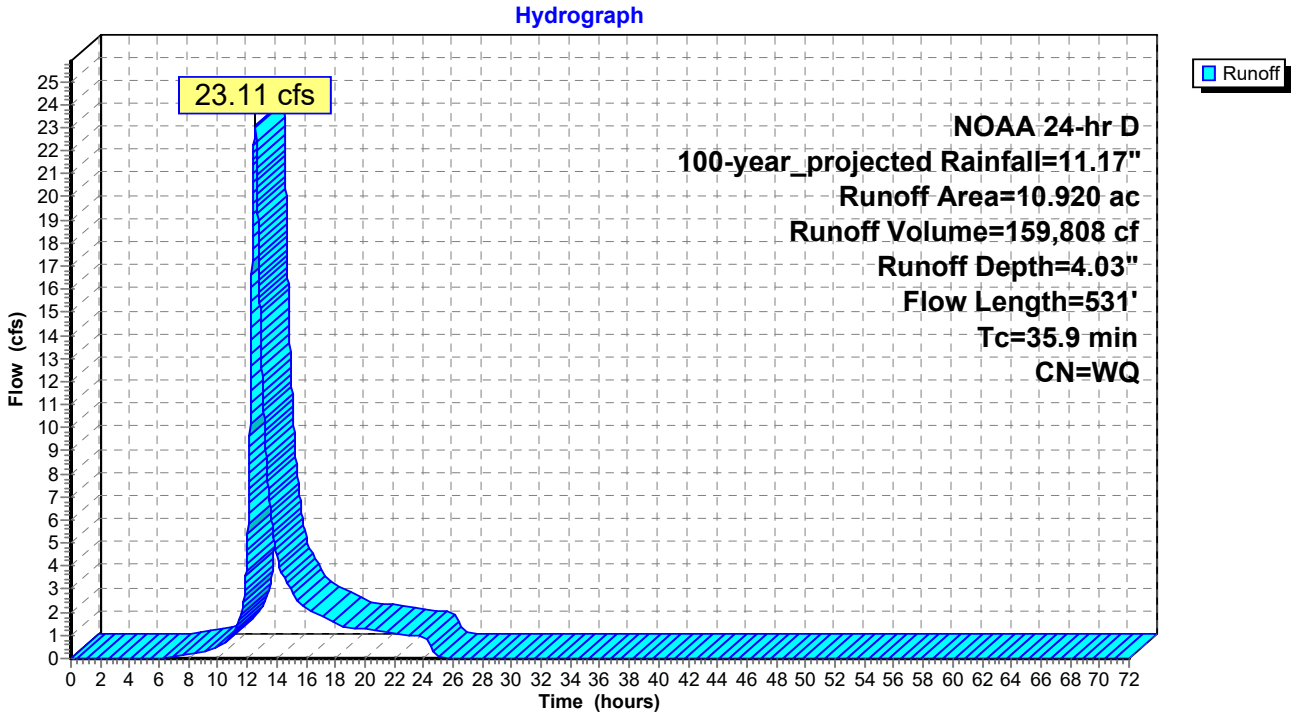
Runoff = 23.11 cfs @ 12.52 hrs, Volume= 159,808 cf, Depth= 4.03"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

Area (ac)	CN	Description
7.980	39	>75% Grass cover, Good, HSG A
2.940	72	Dirt roads, HSG A
10.920		Weighted Average
10.920	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	62	0.0180	0.60		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
10.2	38	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
0.2	5	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.0	146	0.0110	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 4.01"
2.0	89	0.0110	0.73		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	89	0.0040	0.44		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	102	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
35.9	531	Total			

Subcatchment 34S: DA1 PER



Summary for Subcatchment 63S: DA3 PER

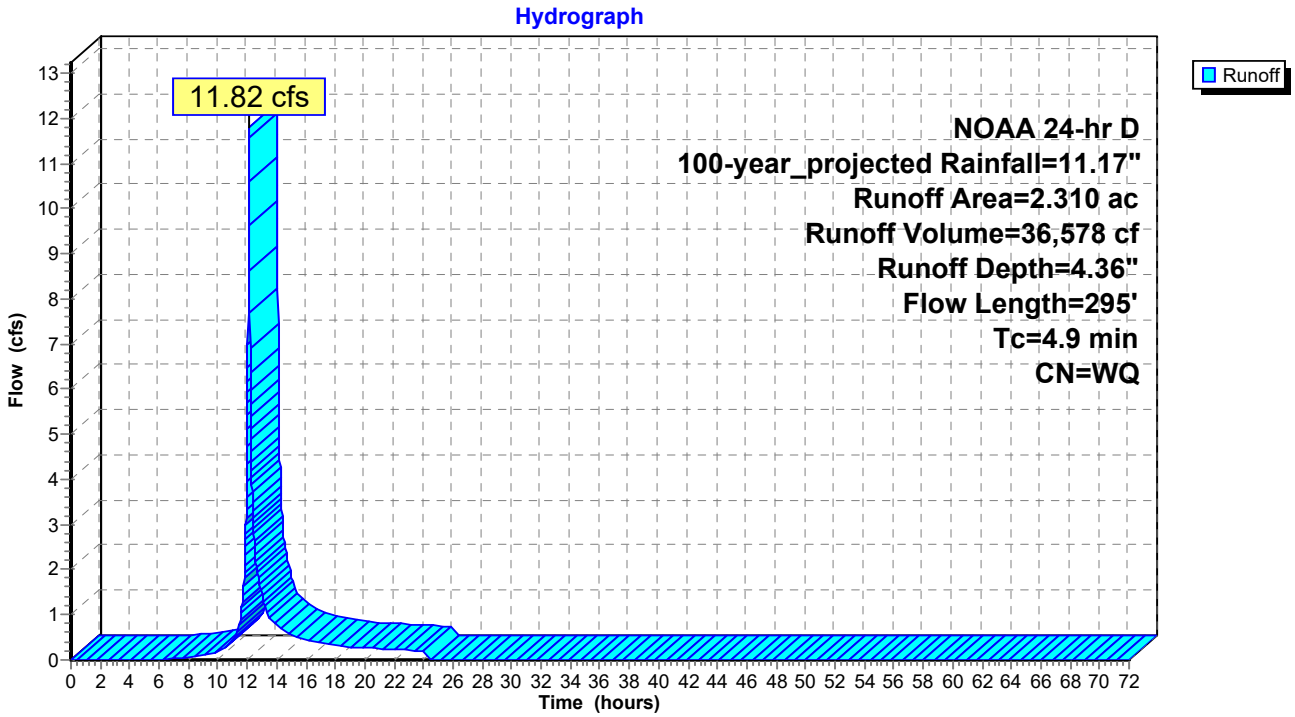
Runoff = 11.82 cfs @ 12.12 hrs, Volume= 36,578 cf, Depth= 4.36"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

Area (ac)	CN	Description
1.530	39	>75% Grass cover, Good, HSG A
0.780	72	Dirt roads, HSG A
2.310		Weighted Average
2.310	50	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	99	0.0270	0.52		**Sheet Flow,** Fallow n= 0.050 P2= 4.01"
1.5	164	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	32	0.0290	2.74		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
4.9	295	Total			

Subcatchment 63S: DA3 PER



Summary for Subcatchment 64S: DA3 IMP

[49] Hint: Tc<2dt may require smaller dt

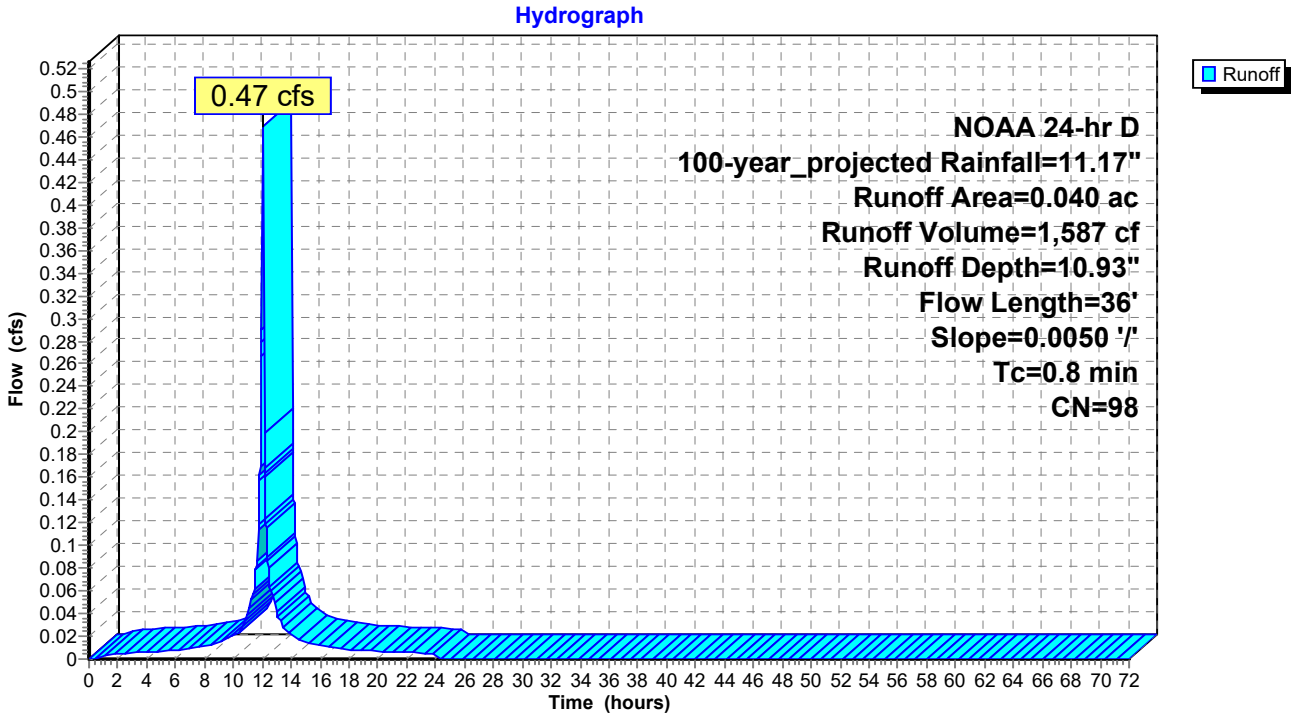
Runoff = 0.47 cfs @ 12.08 hrs, Volume= 1,587 cf, Depth=10.93"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.040	98	
	0.040	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	36	0.0050	0.72		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"

Subcatchment 64S: DA3 IMP



Summary for Subcatchment 66S: DA1 IMP

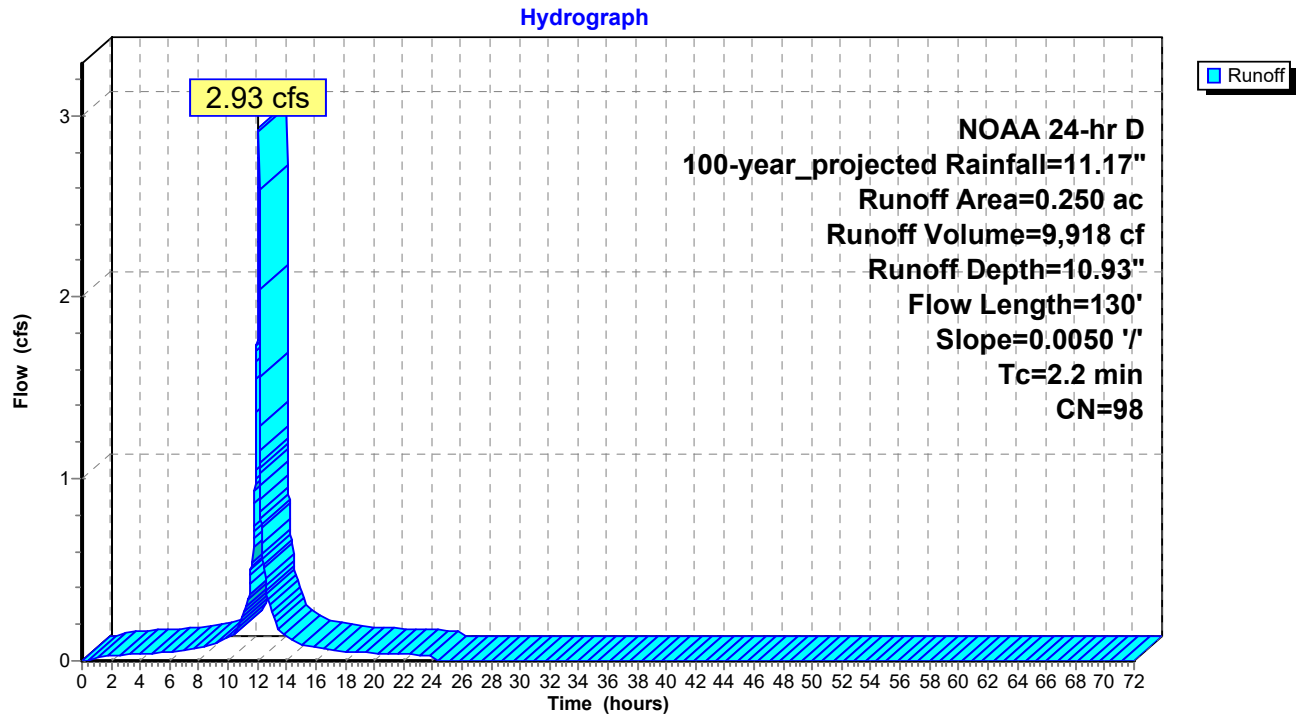
Runoff = 2.93 cfs @ 12.10 hrs, Volume= 9,918 cf, Depth=10.93"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.250	98	
	0.250	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	100	0.0050	0.88		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.3	30	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	130	Total			

Subcatchment 66S: DA1 IMP



Summary for Subcatchment 67S: DA2 PER

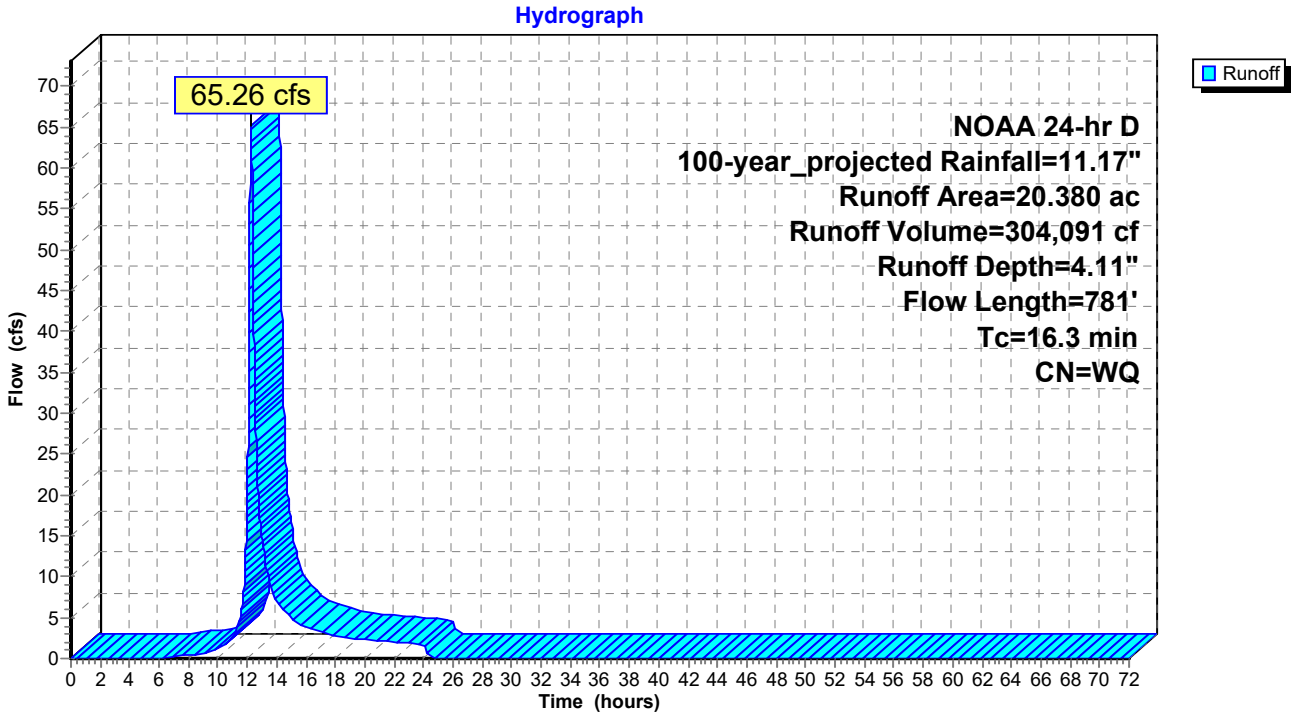
Runoff = 65.26 cfs @ 12.26 hrs, Volume= 304,091 cf, Depth= 4.11"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

Area (ac)	CN	Description
14.560	39	>75% Grass cover, Good, HSG A
5.820	72	Dirt roads, HSG A
20.380		Weighted Average
20.380	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	85	0.0080	0.46		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
0.5	15	0.0250	0.52		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
0.2	28	0.0250	2.55		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	50	0.0050	1.14		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.5	124	0.0410	1.42		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.0	270	0.0260	1.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	60	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.7	94	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	55	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.3	781	Total			

Subcatchment 67S: DA2 PER



Summary for Subcatchment 68S: DA2 IMP

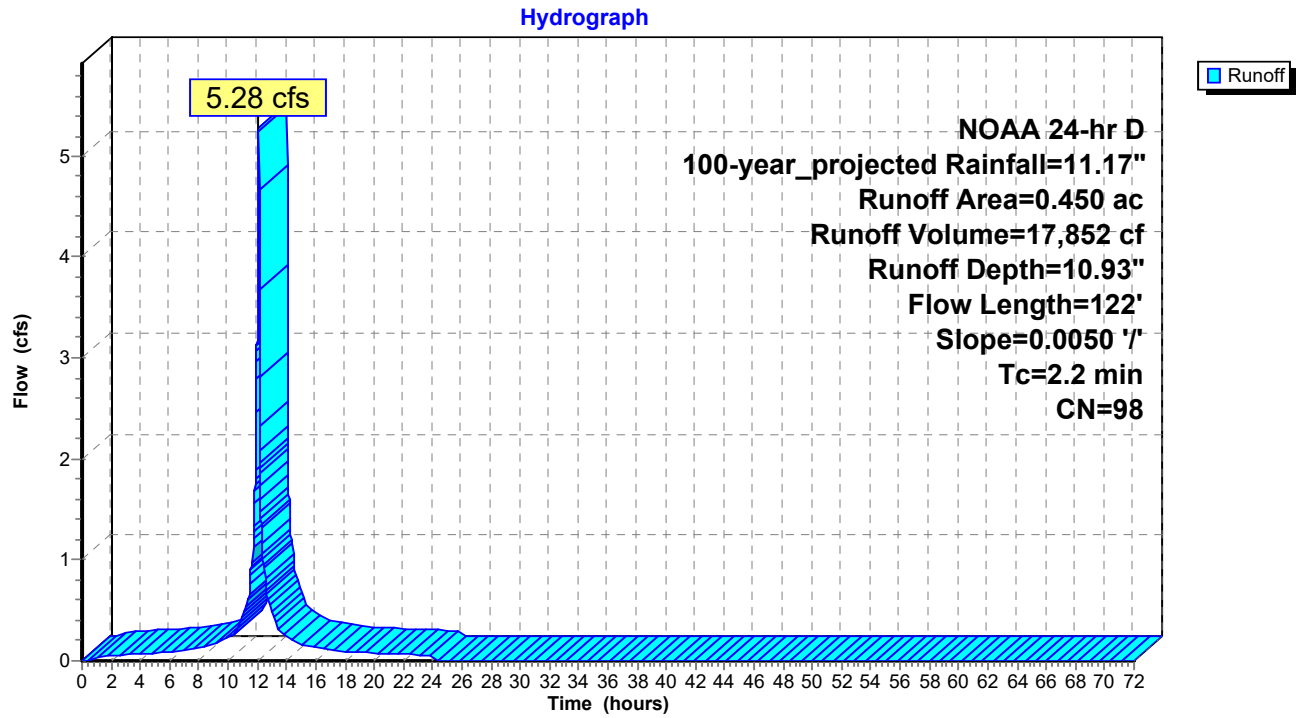
Runoff = 5.28 cfs @ 12.10 hrs, Volume= 17,852 cf, Depth=10.93"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NOAA 24-hr D 100-year_projected Rainfall=11.17"

	Area (ac)	CN	Description
*	0.450	98	
	0.450	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	100	0.0050	0.88		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.3	22	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	122	Total			

Subcatchment 68S: DA2 IMP



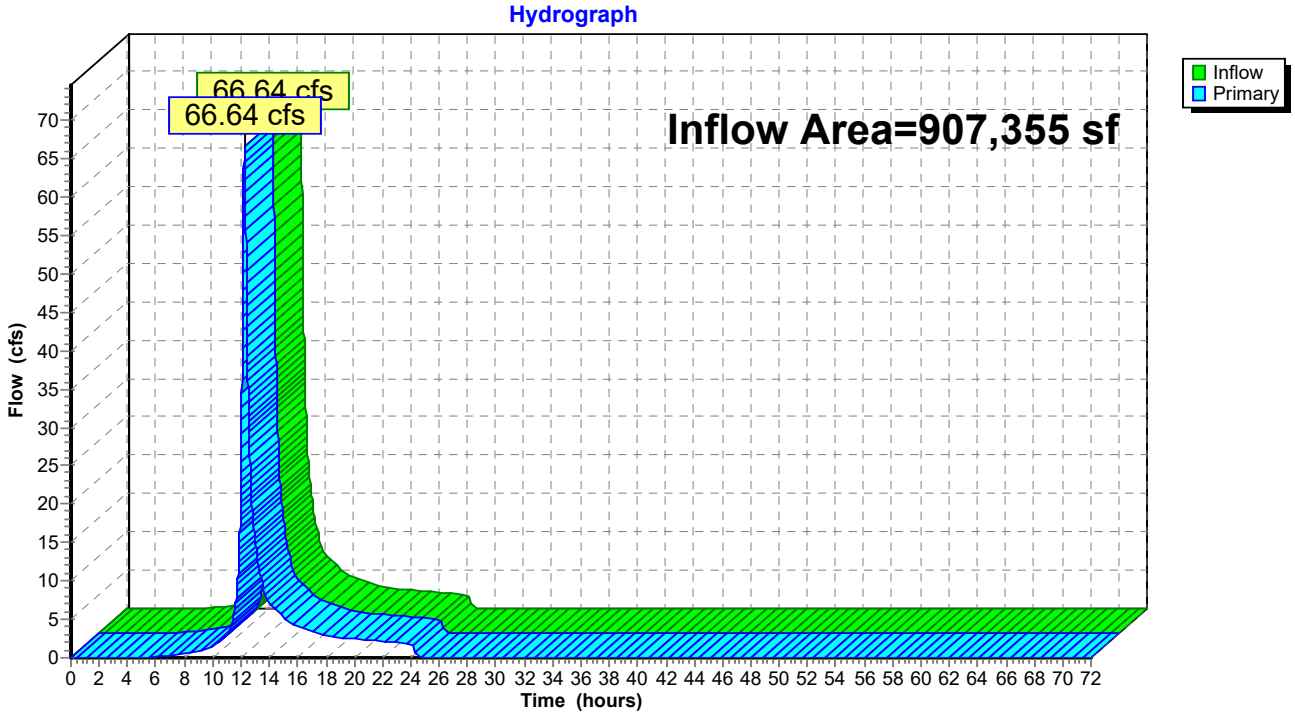
Summary for Pond 69P: DA2

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 907,355 sf, 2.16% Impervious, Inflow Depth = 4.26" for 100-year_projected event
Inflow = 66.64 cfs @ 12.26 hrs, Volume= 321,943 cf
Primary = 66.64 cfs @ 12.26 hrs, Volume= 321,943 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 69P: DA2



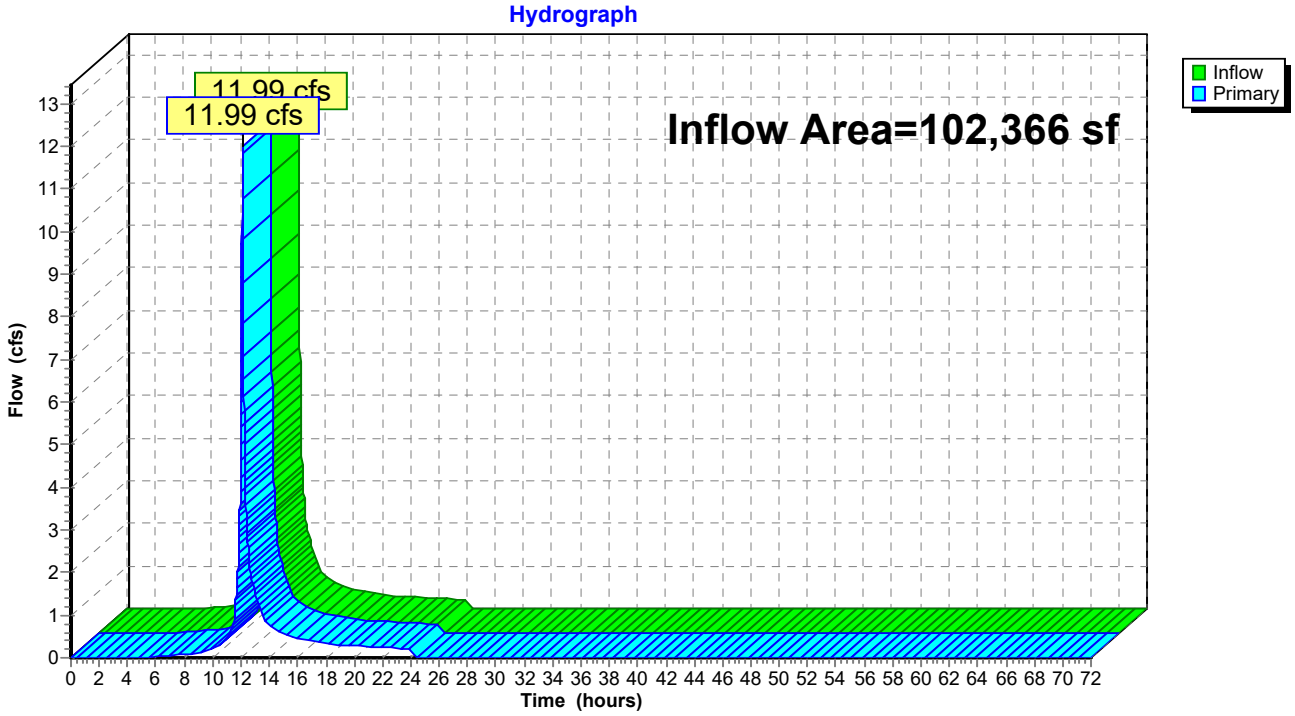
Summary for Pond 70P: DA3

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 102,366 sf, 1.70% Impervious, Inflow Depth = 4.47" for 100-year_projected event
Inflow = 11.99 cfs @ 12.12 hrs, Volume= 38,165 cf
Primary = 11.99 cfs @ 12.12 hrs, Volume= 38,165 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 70P: DA3



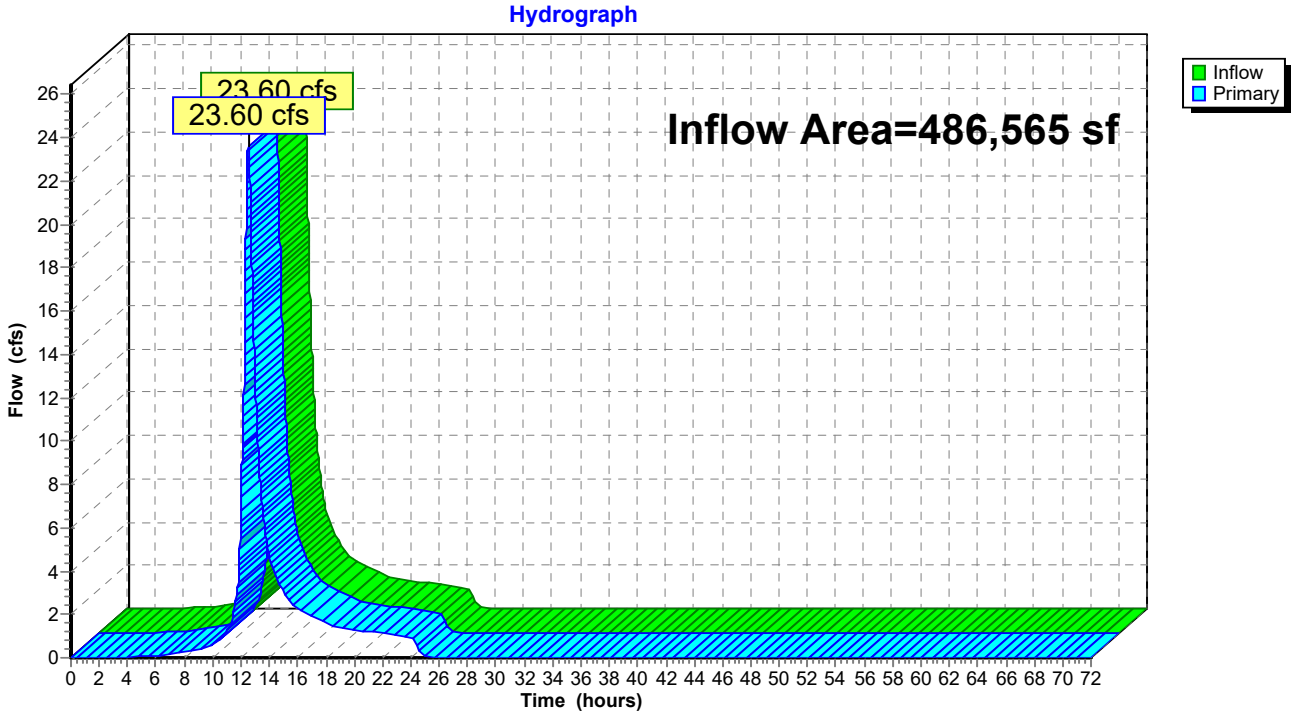
Summary for Pond 71P: DA1

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 486,565 sf, 2.24% Impervious, Inflow Depth = 4.19" for 100-year_projected event
Inflow = 23.60 cfs @ 12.51 hrs, Volume= 169,725 cf
Primary = 23.60 cfs @ 12.51 hrs, Volume= 169,725 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 71P: DA1



Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 34S: DA1 PER Runoff Area=10.920 ac 0.00% Impervious Runoff Depth=0.01"
Flow Length=531' Tc=35.9 min CN=WQ Runoff=0.16 cfs 546 cf

Subcatchment 63S: DA3 PER Runoff Area=2.310 ac 0.00% Impervious Runoff Depth=0.02"
Flow Length=295' Tc=4.9 min CN=WQ Runoff=0.07 cfs 145 cf

Subcatchment 64S: DA3 IMP Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=36' Slope=0.0050 '/' Tc=0.8 min CN=98 Runoff=0.12 cfs 150 cf

Subcatchment 66S: DA1 IMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=130' Slope=0.0050 '/' Tc=2.2 min CN=98 Runoff=0.77 cfs 939 cf

Subcatchment 67S: DA2 PER Runoff Area=20.380 ac 0.00% Impervious Runoff Depth=0.01"
Flow Length=781' Tc=16.3 min CN=WQ Runoff=0.39 cfs 1,080 cf

Subcatchment 68S: DA2 IMP Runoff Area=0.450 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=122' Slope=0.0050 '/' Tc=2.2 min CN=98 Runoff=1.38 cfs 1,690 cf

Pond 69P: DA2 Inflow=1.38 cfs 2,770 cf
Primary=1.38 cfs 2,770 cf

Pond 70P: DA3 Inflow=0.13 cfs 295 cf
Primary=0.13 cfs 295 cf

Pond 71P: DA1 Inflow=0.77 cfs 1,485 cf
Primary=0.77 cfs 1,485 cf

Total Runoff Area = 1,496,286 sf Runoff Volume = 4,550 cf Average Runoff Depth = 0.04"
97.85% Pervious = 1,464,052 sf 2.15% Impervious = 32,234 sf

Summary for Subcatchment 34S: DA1 PER

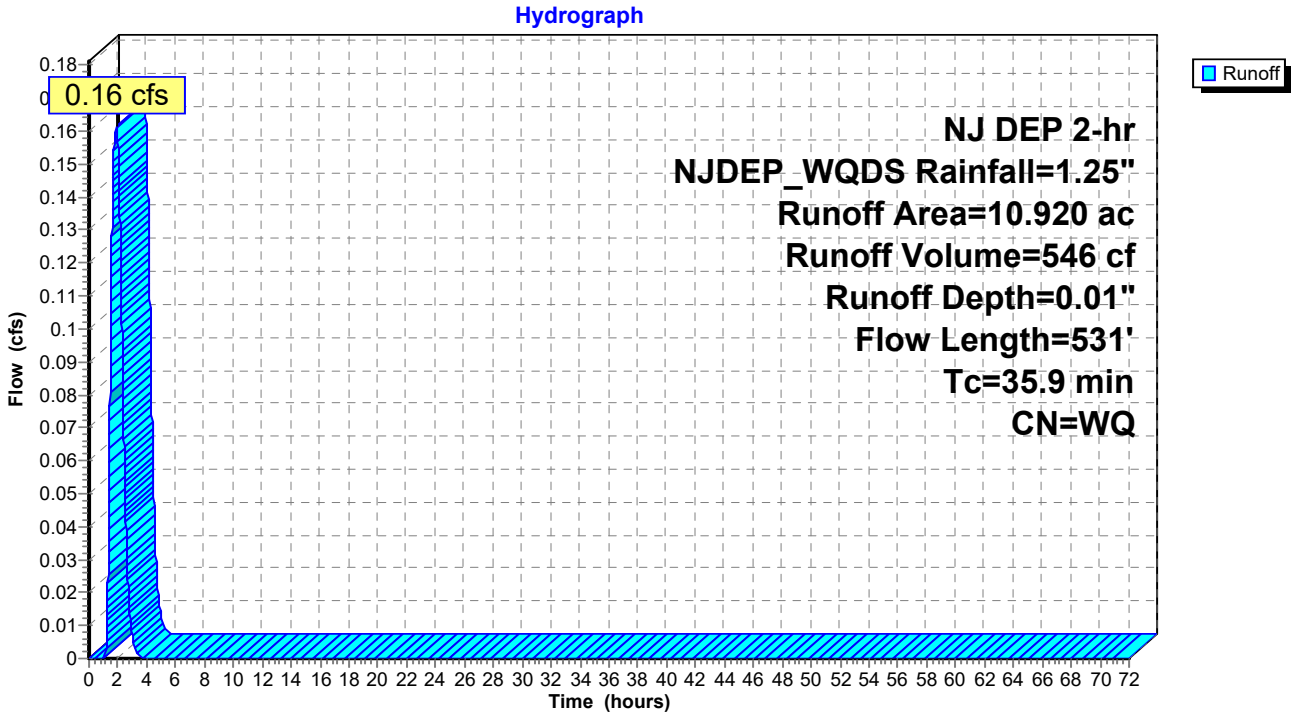
Runoff = 0.16 cfs @ 1.87 hrs, Volume= 546 cf, Depth= 0.01"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
7.980	39	>75% Grass cover, Good, HSG A
2.940	72	Dirt roads, HSG A
10.920		Weighted Average
10.920	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	62	0.0180	0.60		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
10.2	38	0.0050	0.06		**Sheet Flow,** Grass: Dense n= 0.240 P2= 4.01"
0.2	5	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
15.0	146	0.0110	0.16		**Sheet Flow,** Grass: Short n= 0.150 P2= 4.01"
2.0	89	0.0110	0.73		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	89	0.0040	0.44		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.4	102	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
35.9	531	Total			

Subcatchment 34S: DA1 PER



Summary for Subcatchment 63S: DA3 PER

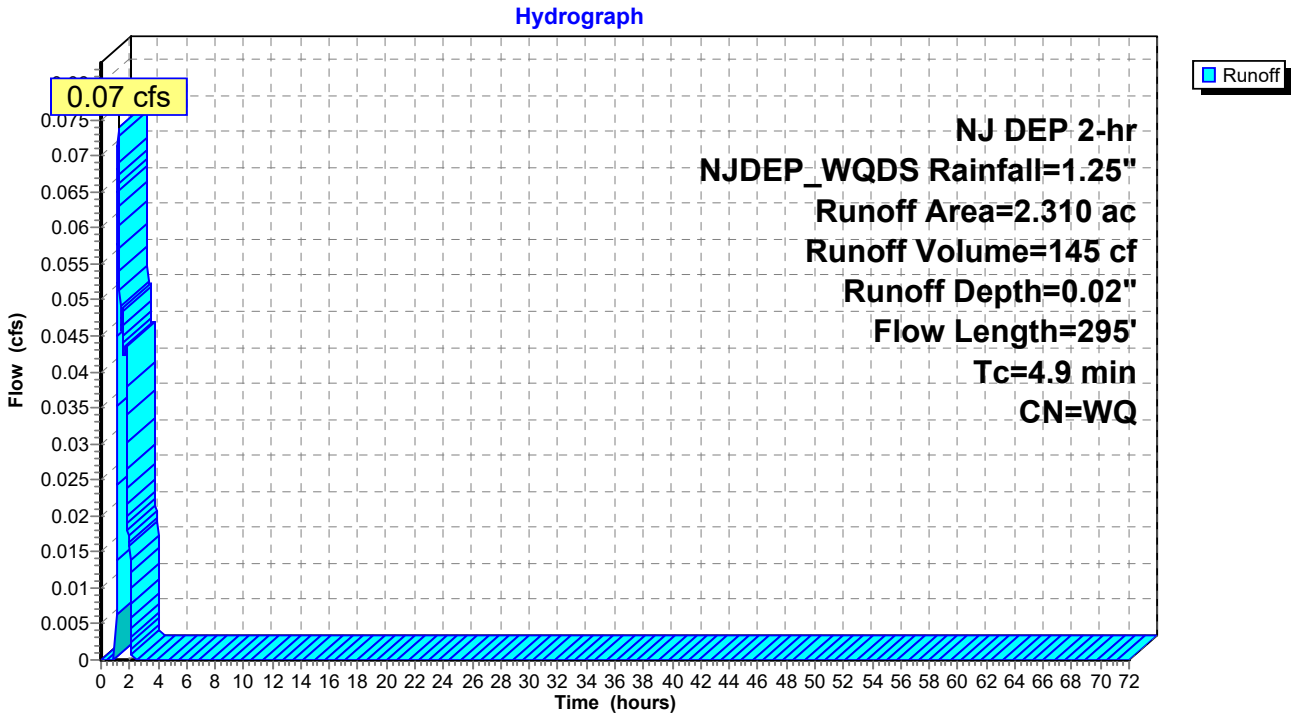
Runoff = 0.07 cfs @ 1.21 hrs, Volume= 145 cf, Depth= 0.02"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
1.530	39	>75% Grass cover, Good, HSG A
0.780	72	Dirt roads, HSG A
2.310		Weighted Average
2.310	50	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	99	0.0270	0.52		**Sheet Flow,** Fallow n= 0.050 P2= 4.01"
1.5	164	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	32	0.0290	2.74		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
4.9	295	Total			

Subcatchment 63S: DA3 PER



Summary for Subcatchment 64S: DA3 IMP

[49] Hint: Tc<2dt may require smaller dt

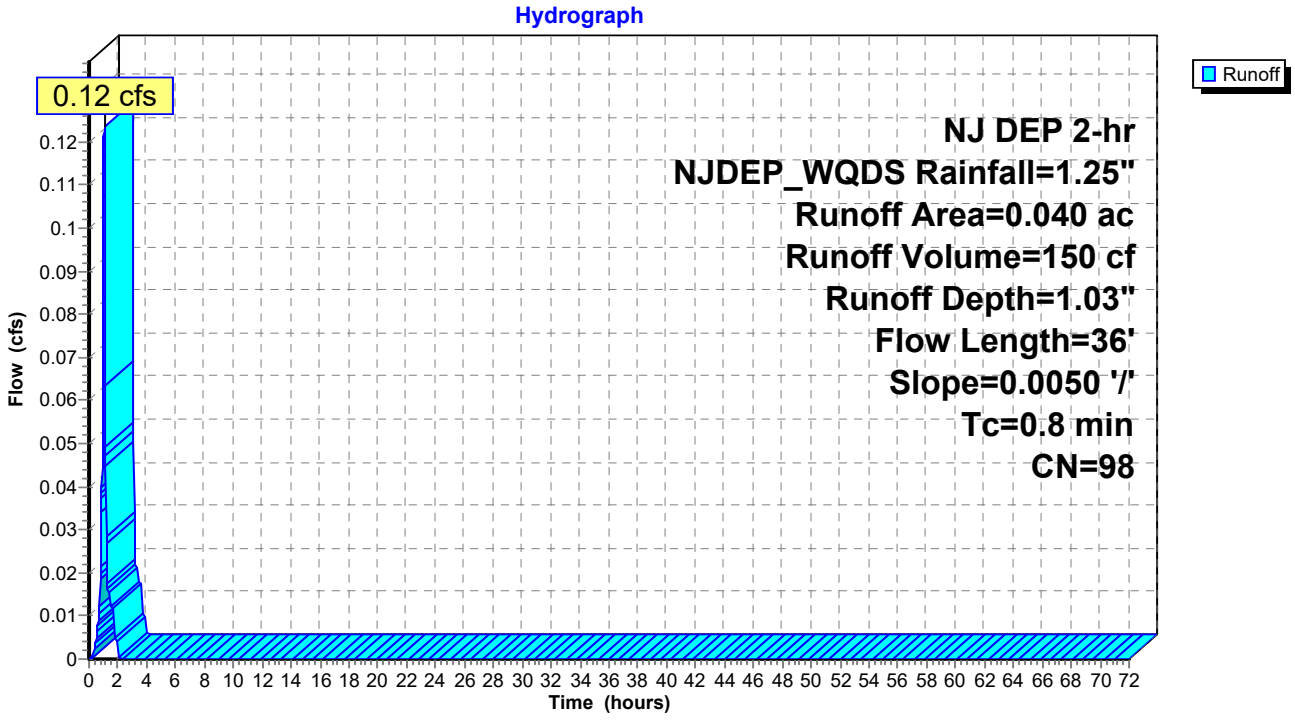
Runoff = 0.12 cfs @ 1.08 hrs, Volume= 150 cf, Depth= 1.03"
Routed to Pond 70P : DA3

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.040	98	
	0.040	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	36	0.0050	0.72		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"

Subcatchment 64S: DA3 IMP



Summary for Subcatchment 66S: DA1 IMP

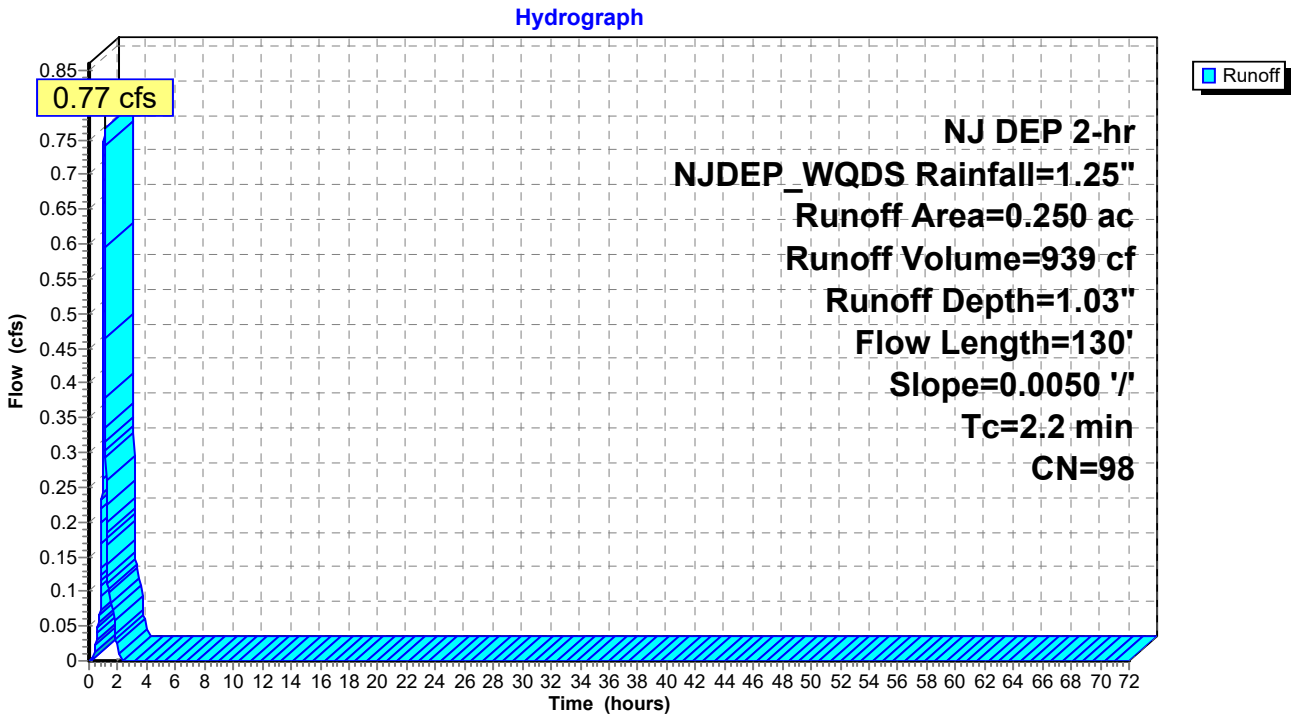
Runoff = 0.77 cfs @ 1.08 hrs, Volume= 939 cf, Depth= 1.03"
Routed to Pond 71P : DA1

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.250	98	
	0.250	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	100	0.0050	0.88		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.3	30	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	130	Total			

Subcatchment 66S: DA1 IMP



Summary for Subcatchment 67S: DA2 PER

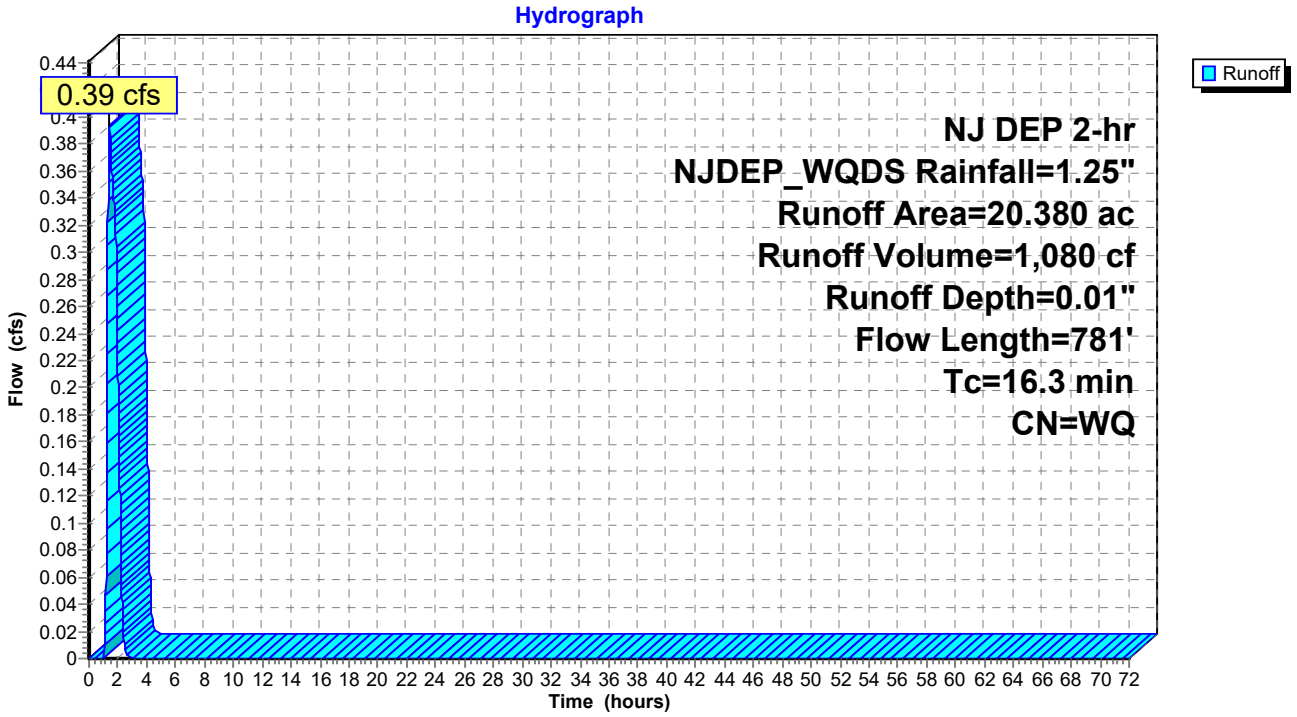
Runoff = 0.39 cfs @ 1.40 hrs, Volume= 1,080 cf, Depth= 0.01"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

Area (ac)	CN	Description
14.560	39	>75% Grass cover, Good, HSG A
5.820	72	Dirt roads, HSG A
20.380		Weighted Average
20.380	48	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	85	0.0080	0.46		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
0.5	15	0.0250	0.52		**Sheet Flow, Dirt road** n= 0.030 P2= 4.01"
0.2	28	0.0250	2.55		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	50	0.0050	1.14		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.5	124	0.0410	1.42		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
4.0	270	0.0260	1.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.7	60	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.7	94	0.0070	0.59		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	55	0.0050	0.49		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
16.3	781	Total			

Subcatchment 67S: DA2 PER



Summary for Subcatchment 68S: DA2 IMP

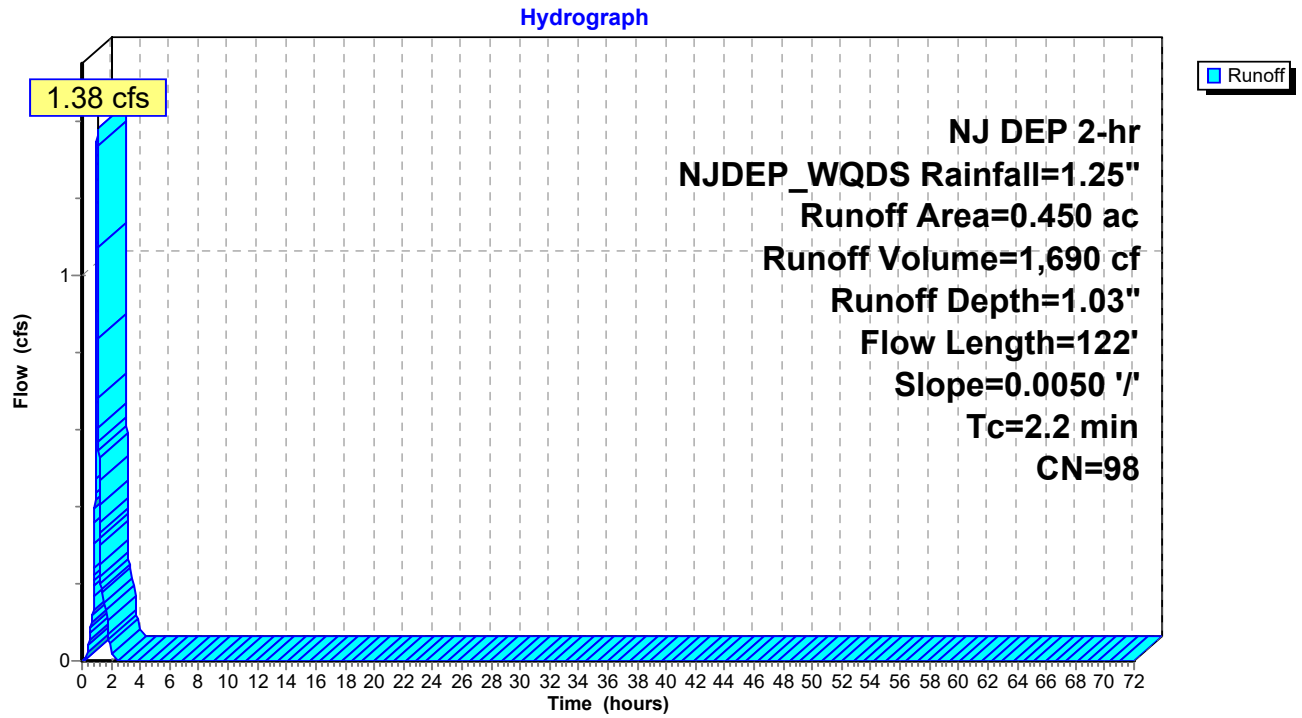
Runoff = 1.38 cfs @ 1.08 hrs, Volume= 1,690 cf, Depth= 1.03"
Routed to Pond 69P : DA2

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr NJDEP_WQDS Rainfall=1.25"

	Area (ac)	CN	Description
*	0.450	98	
	0.450	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	100	0.0050	0.88		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 4.01"
0.3	22	0.0050	1.44		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	122	Total			

Subcatchment 68S: DA2 IMP



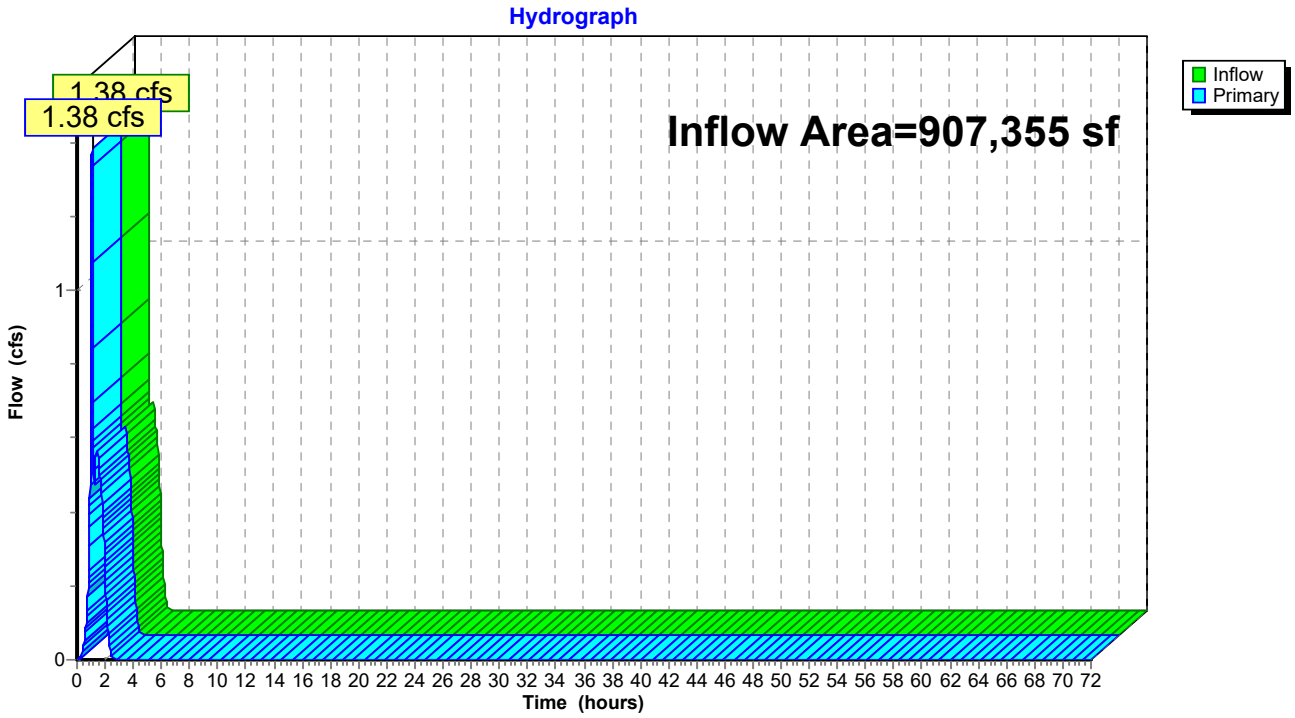
Summary for Pond 69P: DA2

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 907,355 sf, 2.16% Impervious, Inflow Depth = 0.04" for NJDEP_WQDS event
Inflow = 1.38 cfs @ 1.08 hrs, Volume= 2,770 cf
Primary = 1.38 cfs @ 1.08 hrs, Volume= 2,770 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 69P: DA2



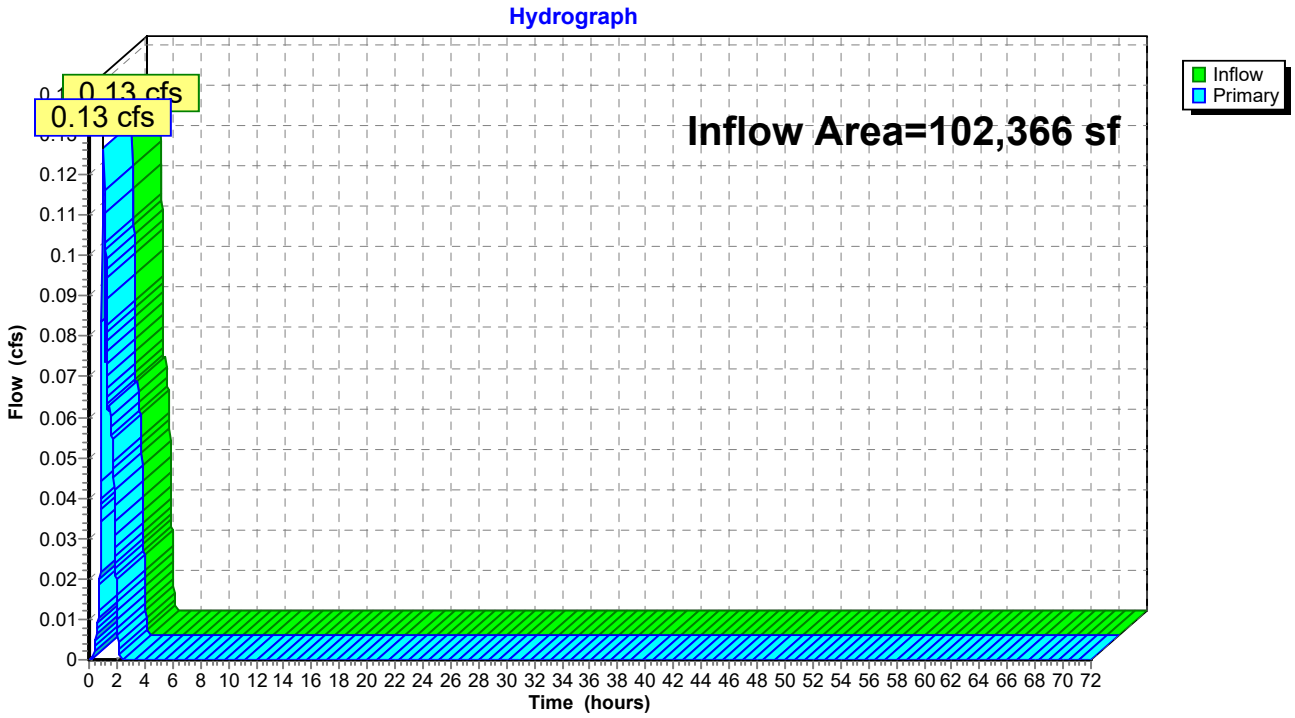
Summary for Pond 70P: DA3

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 102,366 sf, 1.70% Impervious, Inflow Depth = 0.03" for NJDEP_WQDS event
Inflow = 0.13 cfs @ 1.08 hrs, Volume= 295 cf
Primary = 0.13 cfs @ 1.08 hrs, Volume= 295 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 70P: DA3



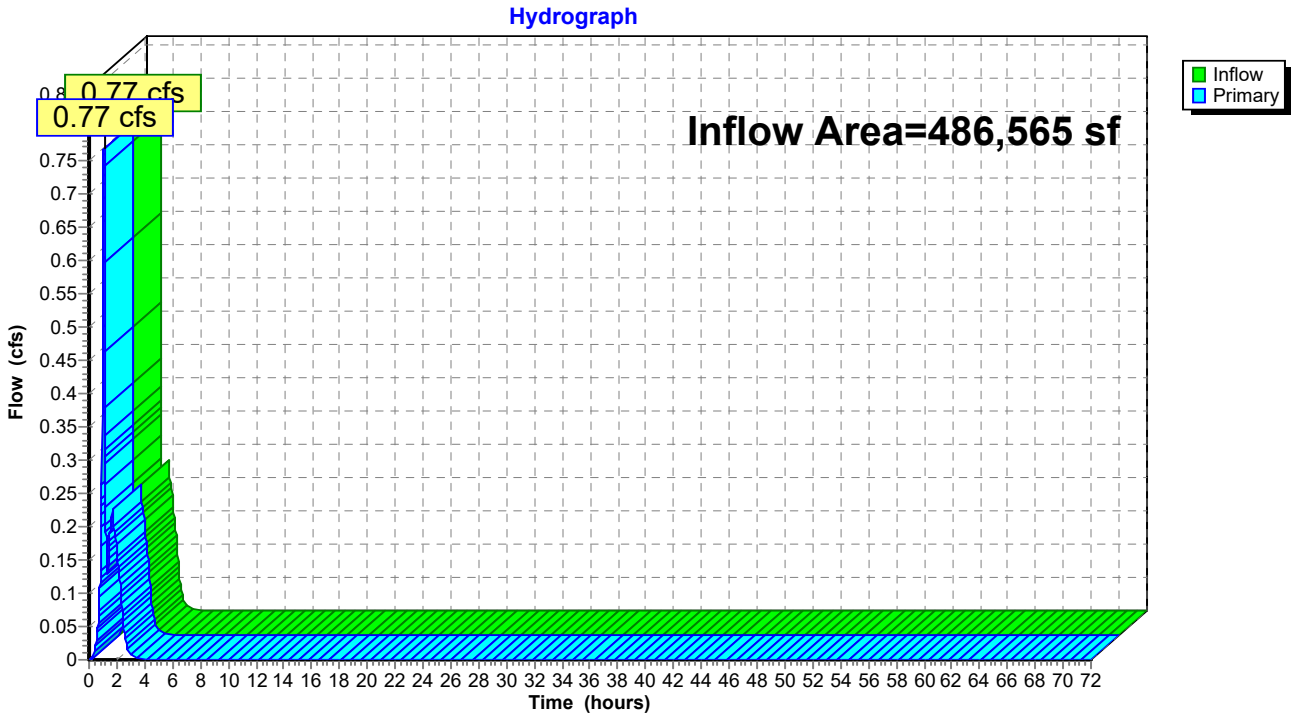
Summary for Pond 71P: DA1

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 486,565 sf, 2.24% Impervious, Inflow Depth = 0.04" for NJDEP_WQDS event
Inflow = 0.77 cfs @ 1.08 hrs, Volume= 1,485 cf
Primary = 0.77 cfs @ 1.08 hrs, Volume= 1,485 cf, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Pond 71P: DA1



Attachment B
Pre-Development Drainage Delineations



N

0 100 200

SCALE IN FEET

LEGEND

- PROPERTY LINE
- INTERPRETED LIMIT OF WASTE
- EXISTING MAJOR CONTOUR (5 FT)
- EXISTING MINOR CONTOUR (1 FT)
- SPOT ELEVATION
- GRAVEL DRIVE / ROAD
- ASPHALT
- CONCRETE PAD
- EQUIPMENT / STOCKPILE
- LIGHT POLE
- BOLLARD
- OVERHEAD POWER
- UTILITY POLE
- TREELINE
- WETLAND
- POND
- MW-04 MONITORING WELL
- GROUNDWATER CONTOUR
- TREE
- RETAINING WALL
- FENCE
- SIGN
- IMPERVIOUS
- REGULATED MOTOR VEHICLE SURFACE (RMVS) IMPERVIOUS
- EXISTING STORMWATER BASIN

NOTES

1. EXISTING TOPOGRAPHY, PLANIMETRIC FEATURES, AND PROPERTY LINES TAKEN FROM ELECTRONIC FILE TITLED 'MANCHESTER_BLOCK 116 LOT 13.DWG' PROVIDED BY COLLIERS ENGINEERING & DESIGN OF RED BANK, NEW JERSEY (COLLIERS) ON 15 OCTOBER 2021.
2. VERTICAL SITE DATUM IS IN FEET NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). HORIZONTAL DATUM IS NORTH AMERICAN DATUM 1983 (NAD 83) NEW JERSEY STATE PLANE.
3. LANDFILL BOUNDARY AND MONITORING WELL LOCATIONS FROM ELECTRONIC FILE PROVIDED BY COLLIERS ON 26 OCTOBER 2021.
4. UTILITY TYPES AND LOCATIONS SHOWN ARE FOR REFERENCE ONLY. CONTACT NEW JERSEY ONE CALL FOR A UTILITY MARKOUT PRIOR TO INITIATING EARTH DISTURBING ACTIVITIES. CONFIRM AND FIELD-LOCATE ALL UTILITIES.
5. REFER TO INDIVIDUAL DRAWINGS FOR DRAWING-SPECIFIC NOTES AND LEGENDS.
6. EXISTING CONDITIONS MAY DIFFER FROM THAT SHOWN DUE TO SITE OPERATION ACTIVITIES PERFORMED AFTER THE DATE OF THE SURVEY.

FOR REVIEW PURPOSES ONLY
DESIGN DRAWINGS - NOT FOR CONSTRUCTION

(3in) (2in) (1in)

(1in) (2in) (3in) (4in)

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDERING OR CONSTRUCTION, UNLESS SIGNED.

THOMAS E. RAMSEY
NJ PE #GE49505600

DATE

DESIGN BY:	MN
DRAWN BY:	MAF
CHECKED BY:	TBR
REVIEWED BY:	MN
APPROVED BY:	TBR

Geosyntec consultants
1750 AMERICAN BLVD SUITE 200,
PENNINGTON, NEW JERSEY 08534 USA

TITLE: PRE-DEVELOPMENT HYDROLOGIC CONDITIONS

PROJECT: LANDFILL CLOSURE DESIGN

SITE: MANCHESTER TOWNSHIP LANDFILL
BAYVILLE, NEW JERSEY

DATE: JUNE 2023
PROJECT NO.: JR0312.04
FILE: JR0312.04-C-FIG2

C:_GEOPW\DS01\DMS19021\JR0312.04-C-FIG2.DWG Last Edited by: MFalzano on 6/13/23

C:_geopw\ds01\dms19021\JR0312.04-C-FIG2.dwg

Attachment C
Post-Development Drainage Delineations

NOTES:

1. EXISTING MATERIAL STOCKPILES ON LANDFILL TO BE REMOVED TO ESTABLISH A RELATIVELY UNIFORM GRADES INTO WHICH THE FINAL COVER SYSTEM MAY BE TIED. EQUIPMENT OWNED BY MANCHESTER TOWNSHIP WILL BE REMOVED BY MANCHESTER TOWNSHIP PRIOR TO THE WORK.
2. MATCH ACCESS ROAD TO EXISTING GRADE OUTSIDE THE LANDFILL BOUNDARY AT A SLOPE NO GREATER THAN 10 PERCENT.
3. PASSIVE AND INDUCED DRAFT LANDFILL GAS VENTS TO BE INSTALLED TO THE BOTTOM OF WASTE OR GROUNDWATER TABLE, WHICHEVER IS HIGHER. ACTUAL INSTALLATION DEPTHS TO BE SELECTED DURING PREPARATION OF CLOSURE CONSTRUCTION DOCUMENTS.
4. FINAL EXTENTS OF THE COMPOSTING AND RECYCLING AREAS WILL BE DETERMINED BY MANCHESTER TOWNSHIP PRIOR TO CONSTRUCTION. FINAL COVER SYSTEM IN THE COMPOSTING AND RECYCLING OPERATIONS AREAS WILL BE A MINIMUM THICKNESS OF THREE FEET OF COMPACTED SOIL (DETAIL 2 ON DRAWING 7).
5. SECURITY BOOTH AND SURROUNDING ASPHALT PAVEMENTS WILL REMAIN DURING CLOSURE CONSTRUCTION AND POST-CLOSURE OPERATION. FINAL COVER SYSTEM WILL BE MATCHED TO THE EXISTING ELEVATIONS AT THE EDGE OF THE ASPHALT PAVEMENT.
6. EXISTING LIDAR TOPOGRAPHY DATA FROM USGS LIDAR POINT CLOUD DATA PUBLISHED 11 SEPTEMBER 2014 WITH METADATA UPDATED 12 APRIL 2023 FROM USGS NATIONAL MAP DATA DELIVERY, GIS DATA DOWNLOAD, RECEIVED 31 OCTOBER 2024.
7. INTERPRETED LIMIT OF WASTE BASED ON RESULTS OF PRE-DESIGN INVESTIGATION. TO THE EXTENT ALLOWABLE DURING CONSTRUCTION, DEVELOPED AREAS BETWEEN INTERPRETED LIMIT OF WASTE AND LANDFILL FINAL COVER SYSTEM WILL REMAIN WITH ANY DISTURBED AREAS BEING RESTORED TO PROVIDE EQUAL OR BETTER WASTE COVER AND STORMWATER DRAINAGE THAN PRE-CONSTRUCTION CONDITIONS.
8. INTERPRETED LIMIT OF WASTE BASED ON RESULTS OF PRE-DESIGN INVESTIGATION. WASTE ENCOUNTERED DURING THE EXCAVATION OF THE BORROW AREA WILL BE RELOCATED UNDER THE FINAL COVER SYSTEM. WASTE WILL BE IDENTIFIED BASED ON VISUAL OBSERVATIONS.
9. RIPRAP LINING SHALL BE INSTALLED A MINIMUM OF 10 FEET UPSTREAM AND DOWNSTREAM OF THE BENDS IN DIVERSION BERMS.

N

0 100 200

SCALE IN FEET

LEGEND

- PROPERTY LINE
- INTERPRETED LIMIT OF WASTE
- 50 EXISTING MAJOR CONTOUR (5 FT)
- EXISTING MINOR CONTOUR (1 FT)
- SPOT ELEVATION
- GRAVEL DRIVE / ROAD
- ASPHALT
- CONCRETE PAD
- LIGHT POLE
- BOLLARD
- OHP OVERHEAD POWER
- UTILITY POLE
- TREELINE
- WETLAND
- POND
- MW-04 MONITORING WELL
- GROUNDWATER CONTOUR
- TREE
- SIGN
- 50 PROPOSED CONTOUR
- APPROXIMATE LANDFILL BOUNDARY
- AGGREGATE FINAL COVER BOUNDARY
- GV-04 INDUCED DRAFT GAS VENT
- GV-26 PASSIVE GAS VENT
- AGGREGATE ROAD AND AGGREGATE FINAL COVER SYSTEM
- CULVERT
- DRAINAGE STRUCTURE
- D VEGETATED DIVERSION BERM (9/8)
- SD RIPRAP DIVERSION BERM (10/8)
- DB BERM (15/9)
- PUBLIC RECYCLING AREA
- BASIN SPILLWAY
- SEDIMENT FOREBAY SPILLWAY

FOR REVIEW PURPOSES ONLY
DESIGN DRAWINGS - NOT FOR CONSTRUCTION

(1in) (2in) (3in) (4in)

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDERING OR CONSTRUCTION, UNLESS SEALED.

THOMAS E. RAMSEY
NJ PE #GE48400600 DATE

DESIGN BY: MNJ/KDH/B	DRAWN BY: MAF	CHECKED BY: TBR	REVIEWED BY: MNJ/DHB	APPROVED BY: TBR

Geosyntec consultants
1750 AMERICAN BLVD SUITE 200
PENNINGTON, NEW JERSEY 08534 USA

TITLE: POST-DEVELOPMENT HYDROLOGIC CONDITIONS

PROJECT: LANDFILL CLOSURE DESIGN

SITE: MANCHESTER TOWNSHIP LANDFILL
MANCHESTER TOWNSHIP, NEW JERSEY

DATE: NOVEMBER 2024
PROJECT NO.: JR0312.04
FILE: JR0312.04 - C04

C:\..\GEO-ACC\ACCDOCS\GEOSYNTEC\NEXTGRID_MANCHESTER TWP-LFP\PROJECT FILES\CAD\D03_LFILL_REDESIGN (JR0312.68)\DWGS\SHEETS\JR0312 04 - C04.DWG
Last Saved by: MFarkas on 11/19/24

Attachment D
Groundwater Mounding Analysis

Infiltration Basin Mounding Analysis - Basin 1A

Parameter	Description	Variable	Equation, if Calculated Value	Value	Unit	Assumption
Input Parameter						
Recharge rate (permeability rate)	Vertical hydraulic conductivity of the most restrictive soil layer in the unsaturated zone below the infiltration BMP.	R	Determined through laboratory testing and decreased as needed during model iteration.	2.5 5	in/hr ft/day	10 in/hr is the maximum permissible input to the equation, including safety factor of 2
Specific yield	Volume of water that will drain from a soil specimen due to gravity, divided by the total volume of the specimen.	Sy	Given model assumption.	0.15	--	0.15 is default value. A value greater than 0.15 can only be used based on soil testing results and may not exceed 0.2.
Horizontal hydraulic conductivity	The rate at which water can move in the horizontal direction.	Kh	Kh=5*R	50	in/hr	Manchester is located within the coastal plain physiographic province of New Jersey.
1/2 length of basin (x direction)	Half the length of basin.	x	x=L/2	123.5663636	ft	Basin is irregular in shape, but was fit with a rectangular shape with the same bottom area.
1/2 width of basin (y direction)	Half the width of basin.	y	y=Wt/2	44	ft	
Duration of infiltration period	The time required for the BMP to drain the volume of stormater runoff at the specified rate.	t	t=Vinf/(Ainf*R)	40.84	hr	Maximum duration is 72-hours.
Saturated Zone Initial Thickness	Thickness of saturated zone beneath the proposed BMP.	hi(0)	Given model assumption.	10	ft	A value of 10 ft used unless another values was determined based on on-site testing. Values may not exceed 75 ft.
Values Used for Calculating Input Parameters						
Infiltrated Runoff Volume	Volume of runoff to be infiltrated.	Vinf	*Design Parameter*	185030	cf	Modeled storage volume for the projected 100-year, 24-hour storm as calculated by the HydroCAD model.
Infiltration Area	Infiltration area of basin.	Ainf	*Design Parameter* *Ainf=L*Wt*	21748	sf	Infiltration area is the footprint of the bottom of the basin
Basin Elevation	Infiltration basin bottom elevation.	Belev	*Design Parameter*	150	ft NAVD88	The base of the infiltration basin does not go lower than this elevation.
Seasonal High Water Table	The water table location upon which mounding will occur.	SHWT	*Site-Specific Assumption*	136	ft NAVD88	Determined from the groundwater elevation lines shown on the pre-development conditions figure.
Outputs						
Height of Groundwater Mound	Maximum height of water mounded on top of the SHWT at the end of the duration of the infiltration period.	Δhmax	*Model Output*	13.379	ft	Output from the Hantush spreadsheet.
Groundwater Mounding Elevation	Elevation of the mounded groundwater beneath the infiltration basin.	GMelev	*Model Output*	**149.379**	ft NAVD88	

Infiltration Basin Mounding Analysis - Basin 1B

Parameter	Description	Variable	Equation, if Calculated Value	Value	Unit	Assumption
Input Parameter						
Recharge rate (permeability rate)	Vertical hydraulic conductivity of the most restrictive soil layer in the unsaturated zone below the infiltration BMP.	R	Determined through laboratory testing and decreased as needed during model iteration.	1.5	in/hr	10 in/hr is the maximum permissible input to the equation, including safety factor of 2
				3	ft/day	
Specific yield	Volume of water that will drain from a soil specimen due to gravity, divided by the total volume of the specimen.	Sy	Given model assumption.	0.15	--	0.15 is default value. A value greater than 0.15 can only be used based on soil testing results and may not exceed 0.2.
Horizontal hydraulic conductivity	The rate at which water can move in the horizontal direction.	Kh	Kh=5*R	50	in/hr	Manchester is located within the coastal plain physiographic province of New Jersey.
1/2 length of basin (x direction)	Half the length of basin.	x	x=L/2	80.54164948	ft	Basin is irregular in shape, but was fit with a rectangular shape with the same bottom area.
1/2 width of basin (y direction)	Half the width of basin.	y	y=Wt/2	48.5	ft	
Duration of infiltration period	The time required for the BMP to drain the volume of stormater runoff at the specified rate.	t	t=Vinf/(Ainf*R)	52.53	hr	Maximum duration is 72-hours.
Saturated Zone Initial Thickness	Thickness of saturated zone beneath the proposed BMP.	hi(0)	Given model assumption.	10	ft	A value of 10 ft used unless another values was determined based on on-site testing. Values may not exceed 75 ft.
Values Used for Calculating Input Parameters						
Infiltrated Runoff Volume	Volume of runoff to be infiltrated.	Vinf	*Design Parameter*	102604	cf	Modeled storage volume for the projected 100-year, 24-hour storm as calculated by the HydroCAD model.
Infiltration Area	Infiltration area of basin.	Ainf	*Design Parameter* *Ainf=L*Wt*	15625	sf	Infiltration area is the footprint of the bottom of the basin
Basin Elevation	Infiltration basin bottom elevation.	Belev	*Design Parameter*	148	ft NAVD88	The base of the infiltration basin does not go lower than this elevation.
Seasonal High Water Table	The water table location upon which mounding will occur.	SHWT	*Site-Specific Assumption*	137	ft NAVD88	Determined from the groundwater elevation lines shown on the pre-development conditions figure.
Outputs						
Height of Groundwater Mound	Maximum height of water mounded on top of the SHWT at the end of the duration of the infiltration period.	Δhmax	*Model Output*	8.354	ft	Output from the Hantush spreadsheet.
Groundwater Mounding Elevation	Elevation of the mounded groundwater beneath the infiltration basin.	GMelev	*Model Output*	**145.354**	ft NAVD88	

Infiltration Basin Mounding Analysis - Basin 2A

Parameter	Description	Variable	Equation, if Calculated Value	Value	Unit	Assumption
Input Parameter						
Recharge rate (permeability rate)	Vertical hydraulic conductivity of the most restrictive soil layer in the unsaturated zone below the infiltration BMP.	R	Determined through laboratory testing and decreased as needed during model iteration.	2.5	in/hr	10 in/hr is the maximum permissible input to the equation, including safety factor of 2
				5	ft/day	
Specific yield	Volume of water that will drain from a soil specimen due to gravity, divided by the total volume of the specimen.	Sy	Given model assumption.	0.15	--	0.15 is default value. A value greater than 0.15 can only be used based on soil testing results and may not exceed 0.2.
Horizontal hydraulic conductivity	The rate at which water can move in the horizontal direction.	Kh	Kh=5*R	50	in/hr	Manchester is located within the coastal plain physiographic province of New Jersey.
1/2 length of basin (x direction)	Half the length of basin.	x	x=L/2	96.15672131	ft	Basin is irregular in shape, but was fit with a rectangular shape with the same bottom area.
1/2 width of basin (y direction)	Half the width of basin.	y	y=Wt/2	61	ft	
Duration of infiltration period	The time required for the BMP to drain the volume of stormater runoff at the specified rate.	t	t=Vinf/(Ainf*R)	22.49	hr	Maximum duration is 72-hours.
Saturated Zone Initial Thickness	Thickness of saturated zone beneath the proposed BMP.	hi(0)	Given model assumption.	10	ft	A value of 10 ft used unless another values was determined based on on-site testing. Values may not exceed 75 ft.
Values Used for Calculating Input Parameters						
Infiltrated Runoff Volume	Volume of runoff to be infiltrated.	Vinf	*Design Parameter*	109906	cf	Modeled storage volume for the projected 100-year, 24-hour storm as calculated by the HydroCAD model.
Infiltration Area	Infiltration area of basin.	Ainf	*Design Parameter* *Ainf=L*Wt*	23462	sf	Infiltration area is the footprint of the bottom of the basin
Basin Elevation	Infiltration basin bottom elevation.	Belev	*Design Parameter*	150.5	ft NAVD88	The base of the infiltration basin does not go lower than this elevation.
Seasonal High Water Table	The water table location upon which mounding will occur.	SHWT	*Site-Specific Assumption*	138	ft NAVD88	Determined from the groundwater elevation lines shown on the pre-development conditions figure.
Outputs						
Height of Groundwater Mound	Maximum height of water mounded on top of the SHWT at the end of the duration of the infiltration period.	Δhmax	*Model Output*	12.321	ft	Output from the Hantush spreadsheet.
Groundwater Mounding Elevation	Elevation of the mounded groundwater beneath the infiltration basin.	GMelev	*Model Output*	**150.321**	ft NAVD88	

Infiltration Basin Mounding Analysis - Basin 2B

Parameter	Description	Variable	Equation, if Calculated Value	Value	Unit	Assumption
Input Parameter						
Recharge rate (permeability rate)	Vertical hydraulic conductivity of the most restrictive soil layer in the	R	Determined through laboratory testing and decreased as	0.74 1.48	in/hr ft/day	10 in/hr is the maximum permissible input to the equation, including safety factor of 2
Specific yield	Volume of water that will drain from a soil specimen due to gravity, divided by the total volume of the specimen.	Sy	Given model assumption.	0.15	--	0.15 is default value. A value greater than 0.15 can only be used based on soil testing results and may not exceed 0.2.
Horizontal hydraulic conductivity	The rate at which water can move in the horizontal direction.	Kh	Kh=5*R	14.48	in/hr	Manchester is located within the coastal plain physiographic province of New Jersey.
1/2 length of basin (x direction)	Half the length of basin.	x	x=L/2	137.1	ft	Basin is irregular in shape, but was fit with a rectangular shape with the same bottom area.
1/2 width of basin (y direction)	Half the width of basin.	y	y=Wt/2	63	ft	
Duration of infiltration period	The time required for the BMP to drain the volume of stormater runoff at the specified rate.	t	t=Vinf/(Ainf*R)	70.29	hr	Maximum duration is 72-hours.
Saturated Zone Initial Thickness	Thickness of saturated zone beneath the proposed BMP.	hi(0)	Given model assumption.	10	ft	A value of 10 ft used unless another values was determined based on on-site testing. Values may not exceed 75 ft.
Values Used for Calculating Input Parameters						
Infiltrated Runoff Volume	Volume of runoff to be infiltrated.	Vinf	*Design Parameter*	149750	cf	Modeled storage volume for the projected 100-year, 24-hour storm as calculated by the HydroCAD model.
Infiltration Area	Infiltration area of basin.	Ainf	*Design Parameter* *Ainf=L*Wt*	34548	sf	Infiltration area is the footprint of the bottom of the basin
Basin Elevation	Infiltration basin bottom elevation.	Belev	*Design Parameter*	151	ft NAVD88	The base of the infiltration basin does not go lower than this elevation.
Seasonal High Water Table	The water table location upon which mounding will occur.	SHWT	*Site-Specific Assumption*	137	ft NAVD88	Determined from the groundwater elevation lines shown on the pre-development conditions figure.
Outputs						
Height of Groundwater Mound	Maximum height of water mounded on top of the SHWT at the end of the duration of the infiltration period.	Δhmax	*Model Output*	13.829	ft	Output from the Hantush spreadsheet.
Groundwater Mounding Elevation	Elevation of the mounded groundwater beneath the infiltration basin.	GMelev	*Model Output*	**150.829**	ft NAVD88	

Infiltration Basin Mounding Analysis - Basin 3

Parameter	Description	Variable	Equation, if Calculated Value	Value	Unit	Assumption
Input Parameter						
Recharge rate (permeability rate)	Vertical hydraulic conductivity of the most restrictive soil layer in the unsaturated zone below the infiltration BMP.	R	Determined through laboratory testing and decreased as needed during model iteration.	1.27 2.54	in/hr ft/day	10 in/hr is the maximum permissible input to the equation, including safety factor of 2
Specific yield	Volume of water that will drain from a soil specimen due to gravity, divided by the total volume of the specimen.	Sy	Given model assumption.	0.15	--	0.15 is default value. A value greater than 0.15 can only be used based on soil testing results and may not exceed 0.2.
Horizontal hydraulic conductivity	The rate at which water can move in the horizontal direction.	Kh	Kh=5*R	50	in/hr	Manchester is located within the coastal plain physiographic province of New Jersey.
1/2 length of basin (x direction)	Half the length of basin.	x	x=L/2	74.04611111	ft	Basin is irregular in shape, but was fit with a rectangular shape with the same bottom area.
1/2 width of basin (y direction)	Half the width of basin.	y	y=Wt/2	27	ft	
Duration of infiltration period	The time required for the BMP to drain the volume of stormater runoff at the specified rate.	t	t=Vinf/(Ainf*R)	59.96	hr	Maximum duration is 72-hours.
Saturated Zone Initial Thickness	Thickness of saturated zone beneath the proposed BMP.	hi(0)	Given model assumption.	10	ft	A value of 10 ft used unless another values was determined based on on-site testing. Values may not exceed 75 ft.
Values Used for Calculating Input Parameters						
Infiltrated Runoff Volume	Volume of runoff to be infiltrated.	Vinf	*Design Parameter*	50746	cf	Modeled storage volume for the projected 100-year, 24-hour storm as calculated by the HydroCAD model.
Infiltration Area	Infiltration area of basin.	Ainf	*Design Parameter* *Ainf=L*Wt*	7997	sf	Infiltration area is the footprint of the bottom of the basin
Basin Elevation	Infiltration basin bottom elevation.	Belev	*Design Parameter*	142	ft NAVD88	The base of the infiltration basin does not go lower than this elevation.
Seasonal High Water Table	The water table location upon which mounding will occur.	SHWT	*Site-Specific Assumption*	137	ft NAVD88	Determined from the groundwater elevation lines shown on the pre-development conditions figure.
Outputs						
Height of Groundwater Mound	Maximum height of water mounded on top of the SHWT at the end of the duration of the infiltration period.	Δhmax	*Model Output*	4.74	ft	Output from the Hantush spreadsheet.
Groundwater Mounding Elevation	Elevation of the mounded groundwater beneath the infiltration basin.	GMelev	*Model Output*	**141.74**	ft NAVD88	

Infiltration Basin Mounding Analysis - Basin 4

Parameter	Description	Variable	Equation, if Calculated Value	Value	Unit	Assumption
Input Parameter						
Recharge rate (permeability rate)	Vertical hydraulic conductivity of the most restrictive soil layer in the unsaturated zone below the infiltration BMP.	R	Determined through laboratory testing and decreased as needed during model iteration.	5 10	in/hr ft/day	Using the average of the four closest infiltration test pits. Recommend testing to confirm. The groundwater mounding elevation will be below the bottom of the infiltration basin for a hydraulic conductivity as low as 3.2 in/hr.
Specific yield	Volume of water that will drain from a soil specimen due to gravity, divided by the total volume of the specimen.	Sy	Given model assumption.	0.15	--	0.15 is default value. A value greater than 0.15 can only be used based on soil testing results and may not exceed 0.2.
Horizontal hydraulic conductivity	The rate at which water can move in the horizontal direction.	Kh	Kh=5*R	50	in/hr	Manchester is located within the coastal plain physiographic province of New Jersey.
1/2 length of basin (x direction)	Half the length of basin.	x	x=L/2	75.1754386	ft	Basin is irregular in shape, but was fit with a rectangular shape with the same bottom area.
1/2 width of basin (y direction)	Half the width of basin.	y	y=Wt/2	28.5	ft	
Duration of infiltration period	The time required for the BMP to drain the volume of stormater runoff at the specified rate.	t	t=Vinf/(Ainf*R)	26.49	hr	Maximum duration is 72-hours.
Saturated Zone Initial Thickness	Thickness of saturated zone beneath the proposed BMP.	hi(0)	Given model assumption.	10	ft	A value of 10 ft used unless another values was determined based on on-site testing. Values may not exceed 75 ft.
Values Used for Calculating Input Parameters						
Infiltrated Runoff Volume	Volume of runoff to be infiltrated.	Vinf	*Design Parameter*	94602	cf	Modeled storage volume for the projected 100-year, 24-hour storm as calculated by the HydroCAD model.
Infiltration Area	Infiltration area of basin.	Ainf	*Design Parameter* *Ainf=L*Wt*	8570	sf	Infiltration area is the footprint of the bottom of the basin
Basin Elevation	Infiltration basin bottom elevation.	Belev	*Design Parameter*	152	ft NAVD88	The base of the infiltration basin does not go lower than this elevation.
Seasonal High Water Table	The water table location upon which mounding will occur.	SHWT	*Site-Specific Assumption*	137	ft NAVD88	Determined from the groundwater elevation lines shown on the pre-development conditions figure.
Outputs						
Height of Groundwater Mound	Maximum height of water mounded on top of the SHWT at the end of the duration of the infiltration period.	Δhmax	*Model Output*	12.751	ft	Output from the Hantush spreadsheet.
Groundwater Mounding Elevation	Elevation of the mounded groundwater beneath the infiltration basin.	GMelev	*Model Output*	**149.751**	ft NAVD88	

Attachment E
Supporting Hydraulic Calculations

PROJECT NAME: Manchester Landfill Closure

LOCATION: Manchester Township, New Jersey

PREPARED BY: ARC **DATE:** 22-Oct-24

CHECKED BY: JMK **DATE:** 11-Nov-24

*NUMBERS WITH THIS STYLE REQUIRE INPUT OR SELECTION FROM USER.

	CHANNEL OR CHANNEL SECTION:	DA1A East Swale	DA1A West Swale	DA1A Central Swale A	DA1A Central Swale B	DA1B Swale	DA2A East Swale	DA2A West Swale	DA2B East Swale	DA2B Road Swale[1]	DA2B West Swale	DA3 Swale	DA4 East Swale	DA4 Roadside Swale	DA4 West Swale
	CONDITION	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected
	BED SLOPE CONDITION	0.7%	0.4%	0.5%	3.2%	0.5%	1.7%	0.6%	0.8%	2.9%	0.4%	2.5%	1.3%	2.4%	0.4%
	EVALUATED FOR:	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability	Freeboard, and Stability
	Q_c (REQURED CAPACITY CFS)	6.57	9.75	2.90	2.88	20.27	10.31	7.83	7.55	0.00	7.91	12.40	6.71	10.49	10.56
CHANNEL GEOMETRY	CHANNEL TYPE	V-Notch	V-Notch	V-Notch	V-Notch	V-Notch	V-Notch	V-Notch	V-Notch	V-Notch	V-Notch	V-Notch	V-Notch	Trapezoidal	V-Notch
	PROTECTIVE LINING	Vegetation, Class B	Vegetation, Class B	Vegetation, Class B	Vegetation, Class B	Vegetation, Class B	Vegetation, Class B	Vegetation, Class B	Vegetation, Class B	Vegetation, Class B	Vegetation, Class B	R-4	Vegetation, Class B	R-4	Vegetation, Class B
	CHANNEL TOP WIDTH (FT)@D	72.00	72.00	72.00	12.00	72.00	72.00	72.00	72.00	12.00	72.00	12.00	72.00	13.80	72.00
	LEFT CHANNEL SIDE SLOPES (H:V)	33.00	3.00	3.00	3.00	3.00	3.00	33.00	3.00	3.00	33.00	3.00	33.00	3.00	3.00
	RIGHT CHANNEL SIDE SLOPES (H:V)	3.00	33.00	33.00	3.00	33.00	33.00	3.00	33.00	3.00	3.00	3.00	3.00	3.00	33.00
	CHANNEL BOTTOM WIDTH (FT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00
	MINIMUM CHANNEL DEPTH D (FT)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.80	2.00
	S (BED SLOPE, FT/FT)	0.0073	0.0040	0.0050	0.0320	0.0050	0.0171	0.0056	0.0083	0.0287	0.0039	0.0251	0.0132	0.0243	0.0042
DEPTH AND FLOW CALCULATION	d (FLOW DEPTH IN FT)	0.69	0.90	0.54	0.76	1.12	0.69	0.77	0.71	0.00	0.83	1.14	0.62	0.70	0.91
	CHANNEL TOP WIDTH (FT)@d	24.84	32.40	19.44	4.56	40.32	24.84	27.72	25.56	0.00	29.88	6.84	22.32	7.20	32.76
	BOTTOM WIDTH:DEPTH RATIO (12:1 MAX)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
	A (AREA IN SQ. FT.) (Channel)	72.00	72.00	72.00	12.00	72.00	72.00	72.00	72.00	12.00	72.00	12.00	72.00	15.12	72.00
	A (AREA IN SQ. FT.) (Flow)	8.570	14.58	5.25	1.73	22.58	8.57	10.67	9.07	0.00	12.40	3.90	6.92	3.57	14.91
	P (WETTED PERIMETER)	24.96	32.56	19.54	4.81	40.52	24.96	27.86	25.69	0.00	30.03	7.21	22.43	7.43	32.92
	R (HYDRAULIC RADIUS)	0.34	0.45	0.27	0.36	0.56	0.34	0.38	0.35	0.00	0.41	0.54	0.31	0.48	0.45
	n (MANNING'S COEFFICIENT)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.049	0.08	0.049	0.08
	V (AT FLOW DEPTH d, FPS)	0.78	0.69	0.55	1.69	0.89	1.19	0.73	0.85	0.00	0.64	3.20	0.98	2.91	0.71
	Q (AT FLOW DEPTH d, CFS)	6.7	10.0	2.9	2.9	20.1	10.2	7.8	7.7	0.0	8.0	12.5	6.8	10.4	10.6
FREEBOARD CALCULATION	Froude Number	0.2	0.2	0.2	0.5	0.2	0.4	0.2	0.3	0.1	0.2	0.7	0.3	0.7	0.2
	Flow Regime	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical
	yc (Critical depth)	0.00	0.00	0.00	0.02	0.01	0.01	0.00	0.01	0.00	0.00	0.08	0.01	0.07	0.00
	STABLE FLOW? (Y/N)	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*	*YES*
	FREEBOARD BASED ON UNSTABLE FLOW FT	0.04	0.05	0.02	0.10	0.07	0.06	0.04	0.05	0.00	0.04	0.27	0.05	0.15	0.05
	FREEBOARD BASED ON STABLE FLOW FT	0.17	0.23	0.14	0.19	0.28	0.17	0.19	0.18	0.00	0.21	0.29	0.16	0.18	0.23
	MINIMUM REQUIRED FREEBOARD FT	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	REQUIRED DEPTH (FT)	1.19	1.40	1.04	1.26	1.62	1.19	1.27	1.21	0.50	1.33	1.64	1.12	1.20	1.41
	D (TOTAL DEPTH) FT	1.20	1.40	1.10	1.30	1.70	1.20	1.30	1.30	0.60	1.40	1.70	1.20	1.20	1.50
DESIGN CRITERIA	DESIGN METHOD FOR PROTECTIVE LINING PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)	S	S	S	S	S	S	S	S	S	S	S	S	S	S
	v_e (MAX ALLOWABLE SHEAR STRESS) LB/FT^2	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.00	2.10	2.00	2.10
	v_e (SHEAR STRESS AT FLOW DEPTH d) LB/FT^2	0.31	0.22	0.17	1.52	0.35	0.74	0.27	0.37	0.00	0.20	1.79	0.51	1.06	0.24
	SHEAR STRESS CRITERIA MET	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	FREEBOARD CRITERIA MET	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

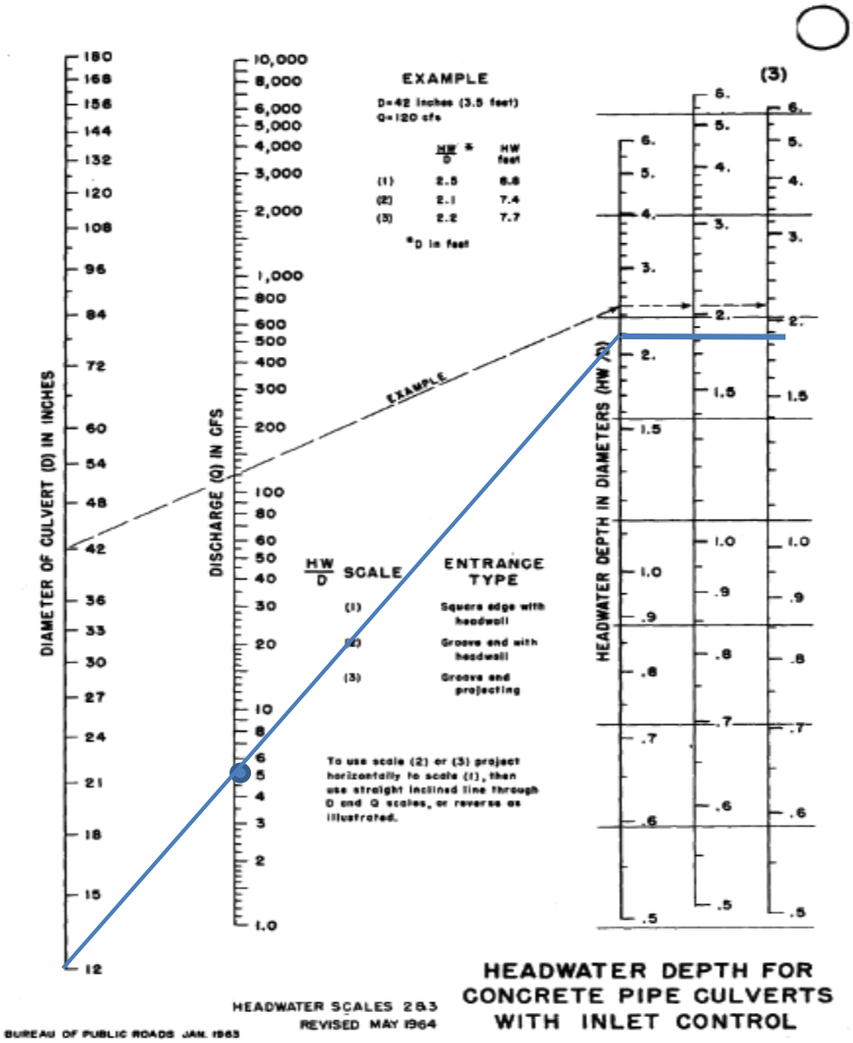
Notes:

1. The required capacity for DA2B Road Swale is 0.00 cfs because there is no contributing drainage area to the swale.

PROJECT NAME:	**Manchester Landfill Closure**			
LOCATION:	**Manchester Township, New Jersey**			
PREPARED BY:	**ARC**	**DATE:**	**12-Nov-24**	
CHECKED BY:	**JMK**	**DATE:**	**13-Nov-24**	

CHANNEL OR CHANNEL SECTION:	DA4 Culvert
CONDITION	100-yr, 24-hr storm Projected
EVALUATED FOR:	Inlet Controlled
Q_r (REQURED CAPACITY CFS)	10.49
NO. CULVERTS	2
INDIVIDUAL CULVERT CAPACITY (CFS)	5.25
HW/D	1.80
MINIMUM DIAMETER (D, FT)	1
HEADWATER (HW, FT)	1.80
MAX ALLOWABLE HEADWATER (MAX HW, FT) = Depth upstream diversion	1.80

CHART 1B



HEADWATER DEPTH FOR CONCRETE PIPE CULVERTS WITH INLET CONTROL

HEADWATER SCALES 2&3
REVISED MAY 1964

BUREAU OF PUBLIC ROADS JAN. 1963

PROJECT NAME: Manchester Landfill Closure

LOCATION: Manchester Township, New Jersey

PREPARED BY: ARC **DATE:** 12-Nov-24

CHECKED BY: JMK **DATE:** 15-Nov-24

*NUMBERS WITH THIS STYLE REQUIRE INPUT OR SELECTION FROM USER.

	CHANNEL OR CHANNEL SECTION:	Basin DA 1A Forebay	Basin DA 1B Forebay	Basin DA 2A Forebay	Basin DA 2B Forebay	Basin DA 3 Forebay	Basin DA 4 Forebay
	CONDITION	Water Quality Design Storm	Water Quality Design Storm	Water Quality Design Storm	Water Quality Design Storm	Water Quality Design Storm	Water Quality Design Storm
	EVALUATED FOR:	Volume	Volume	Volume	Volume	Volume	Volume
	v_r (REQURED VOLUME, CF)	2999	8765	7158	2420	403	6279
SEDIMENT FOREBAY DIMENSIONS	A (FOREBAY BOTTOM AREA, SF)	662.00	3096.00	3639.00	928.00	3115.00	2116.00
	P (FOREBAY PERIMETER, FT)	102.92	222.57	241.30	121.85	223.25	184.00
	D (FOREBAY DEPTH, FT)	2.8	2.5	1.7	2.5	1.5	3.0
	S (FOREBAY SIDE SLOPE)	3.00	3.00	3.00	3.00	3.00	3.00
	VOLUME OF SLOPED SECTIONS (CF) **HIDE**	1210.31	2086.56	1046.02	1142.37	753.46	2484.00
	V (FOREBAY VOLUME, CF)	3064	9827	7232	3462	5426	8832
	FOREBAY VOLUME PROVIDED > MINIMUM REQUIRED?	YES	YES	YES	YES	YES	YES

PROJECT NAME: Manchester Landfill Closure

LOCATION: Manchester Township, New Jersey

PREPARED BY: ARC **DATE:** 25-Oct-24

CHECKED BY: JMK **DATE:** 15-Nov-24

*NUMBERS WITH THIS STYLE REQUIRE INPUT OR SELECTION FROM USER.

	CHANNEL OR CHANNEL SECTION:	Basin DA 1B Bioretention	Basin DA 2A Bioretention	Basin DA 3 Bioretention	Basin DA 4 Bioretention
	CONDITION	Water Quality Design Storm	Water Quality Design Storm	Water Quality Design Storm	Water Quality Design Storm
	EVALUATED FOR:	Volume	Volume	Volume	Volume
	v_r (REQURED VOLUME, CF)	9483	8326	738	6677
BIORETENTION BASIN DIMENSIONS	A (BIORETENTION BOTTOM AREA, SF)	4198.0	4692.0	3477.0	2922.0
	P (BIORETENTION PERIMETER, FT)	259.2	274.0	235.9	216.2
	D (BIORETENTION PONDING DEPTH, FT)	1.0	1.0	1.0	1.0
	S (BIORETENTION SIDE SLOPE)	3.00	3.00	3.00	3.00
	VOLUME OF SLOPED SECTIONS (CF) **HIDE**	388.75	410.99	353.80	324.33
	V (BIORETENTION PONDING VOLUME, CF)	4587	5103	3831	3246
	SOIL DEPTH (FT)	4.0	2.5	1.5	4.0
	SOIL VOLUME, CF)	16792	11730	5216	11688
	SOIL VOID VOLUME (CF)	5038	3519	1565	3506
	TOTAL VOLUME	9624	8622	5395	6753
	FOREBAY VOLUME PROVIDED > MINIMUM REQUIRED?	YES	YES	YES	YES

PROJECT NAME: Manchester Landfill Closure

LOCATION: Manchester Township, New Jersey

PREPARED BY: ARC **DATE:** 12-Nov-24

CHECKED BY: JMK **DATE:** 15-Nov-24

*NUMBERS WITH THIS STYLE REQUIRE INPUT OR SELECTION FROM USER.

INFILTRATION BASIN DIMENSIONS

CHANNEL OR CHANNEL SECTION:	Infiltration Basin 1A	Infiltration Basin 1B	Infiltration Basin 2A	Infiltration Basin 2B	Infiltration Basin 3	Infiltration Basin 4
CONDITION	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected
EVALUATED FOR:	Volume	Volume	Volume	Volume	Volume	Volume
V_{rr} (REQURED VOLUME, CF)	184,535	102,605	109,908	149,751	50,747	94,603
V (BASIN VOLUME @ SPILLWAY DEPTH, CF)	239,871	118,777	207,789	177,014	58,425	95,875
BASIN VOLUME PROVIDED > MINIMUM REQUIRED?	YES	YES	YES	YES	YES	YES

PROJECT NAME: Manchester Landfill Closure

LOCATION: Manchester Township, New Jersey

PREPARED BY: ARC **DATE:** 12-Nov-24

CHECKED BY: JMK **DATE:** 15-Nov-24

*NUMBERS WITH THIS STYLE REQUIRE INPUT OR SELECTION FROM USER.

	DRAINAGE AREA	BASIN 1A	BASIN 1B		BASIN 2A		BASIN 2B	BASIN 3		BASIN 4		
	CHANNEL OR CHANNEL SECTION:	Forebay Outlet	Forebay Outlet	Bioretention Outlet	Forebay Outlet	Bioretention Outlet	Forebay Outlet	Forebay Outlet	Bioretention Outlet	Forebay Outlet	DA4 Culvert	Bioretention Outlet
	CONDITION	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected
	EVALUATED FOR:	Riprap	Riprap	Riprap	Riprap	Riprap	Riprap	Riprap	Riprap	Riprap	Riprap	Riprap
	Q_t (REQURED CAPACITY CFS)	8.98	11.64	12.04	8.83	9.64	15.07	8.63	5.18	11.54	10.49	13.29
PIPE ENERGY DISSIPATION PAD DIMENSIONS	q (UNIT DISCHARGE)	4.49	7.76	6.02	5.89	6.43	7.54	5.75	3.45	7.69	5.25	6.65
	D_O (MAX HEIGHT, FT)	2.00	1.50	2.00	1.50	1.50	2.00	1.50	1.50	1.50	1.00	2.00
	W_O (MAX WIDTH, FT)	2.00	1.50	2.00	1.50	1.50	2.00	1.50	1.50	1.50	1.00	2.00
	La (APRON LENGTH, FT)	20	22	22	19	20	24	19	16	22	16	22
	W (TERMINAL APRON WIDTH, FT)	26	26	28	24	24	30	23	20	26	19	28
	TW 2-YEAR, 24-HOUR STORM	0.00	2.04	0.00	2.52	0.00	0.00	0.83	0.46	1.82	1.02	0.76
	TW (USE 0.2*Do IF UNK, FT)	0.40	2.04	0.40	2.52	0.30	0.40	0.83	0.46	1.82	1.02	0.76
	D_{50} (MEDIAN STONE DIAMETER, FT)	0.37	0.15	0.54	0.08	0.79	0.73	0.25	0.23	0.17	0.18	0.33
	D_{50} (MEDIAN STONE DIAMETER, IN)	4	2	7	1	9	9	3	3	2	2	4
	RIPRAP LINING THICKNESS (WITHOUT FILTER LAYER, FT)	1.11	0.45	1.63	0.25	2.37	2.20	0.74	0.68	0.50	0.53	0.98
	RIPRAP LINING THICKNESS (WITH FILTER LAYER, FT)	0.74	0.30	1.09	0.17	1.58	1.47	0.49	0.45	0.33	0.36	0.65

PROJECT NAME: Manchester Landfill Closure

LOCATION: Manchester Township, New Jersey

PREPARED BY: ARC **DATE:** 11-Nov-24

CHECKED BY: JMK **DATE:** 15-Nov-24

*NUMBERS WITH THIS STYLE REQUIRE INPUT OR SELECTION FROM USER.

	CHANNEL OR CHANNEL SECTION:	Basin 1A Infiltration Basin Spillway	Basin 1B Infiltration Basin Spillway	Basin 2A Infiltration Basin Spillway	Basin 2B Infiltration Basin Spillway	Basin 3 Infiltration Basin Spillway	Basin 4 Infiltration Basin Spillway
	CONDITION	10-yr, 24-hr storm Projected (with full Infiltration Basin)	10-yr, 24-hr storm Projected (with full Infiltration Basin)	10-yr, 24-hr storm Projected (with full Infiltration Basin)	10-yr, 24-hr storm Projected(with full Infiltration Basin)	10-yr, 24-hr storm Projected (with full Infiltration Basin)	10-yr, 24-hr storm Projected(with full Infiltration Basin)
	EVALUATED FOR:	Riprap	Riprap	Riprap	Riprap		Riprap
	Q_r (REQURED CAPACITY CFS)	8.76	4.70	7.41	7.91	2.44	3.67
Infiltration Basin Spillway Dimensions	q (UNIT DISCHARGE)	0.73	0.39	0.62	0.66	0.20	0.31
	D_O (MAX HEIGHT, FT)	0.10	0.10	0.10	0.10	0.10	0.10
	W_O (MAX WIDTH, FT)	12.00	12.00	12.00	12.00	12.00	12.00
	La (APRON LENGTH, FT)	5	3	4	4	2	2
	W (TERMINAL APRON WIDTH, FT)	41	39	40	40	38	38
	TW (USE 0.2*Do IF UNK, FT)	0.0	0.02	0.02	0.02	0.02	0.02
	D_{50} (MEDIAN STONE DIAMETER, FT)	0.7	0.29	0.53	0.57	0.12	0.21
	D_{50} (MEDIAN STONE DIAMETER, IN)	**8**	**3**	**6**	**7**	**1**	**2**
	RIPRAP LINING THICKNESS (WITHOUT FILTER LAYER, FT)	2.0	0.86	1.58	1.72	0.36	0.62
	RIPRAP LINING THICKNESS (WITH FILTER LAYER, FT)	1.3	0.57	1.05	1.15	0.24	0.41

PROJECT NAME: Manchester Landfill Closure

LOCATION: Manchester Township, New Jersey

PREPARED BY: ARC **DATE:** 11-Nov-24

CHECKED BY: JMK **DATE:** 15-Nov-24

*NUMBERS WITH THIS STYLE REQUIRE INPUT OR SELECTION FROM USER.

	CHANNEL OR CHANNEL SECTION:	Basin 1A Forebay Spillway	Basin 1B Forebay Spillway	Basin 2A Forebay Spillway	Basin 2B Forebay Spillway[1]	Basin 3 Forebay Spillway	Basin 4 Forebay Spillway[1]
	CONDITION	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected
	EVALUATED FOR:	Riprap	Riprap	Riprap	Riprap		Riprap
	Q_r (REQURED CAPACITY CFS)	7.66	3.42	3.96	0.00	0.84	0.00
Forebay Spillway Dimensions	q (UNIT DISCHARGE)	0.31	0.34	0.20	0.00	0.08	0.00
	D_O (MAX HEIGHT, FT)	0.24	0.25	0.18	0.10	0.10	0.10
	W_O (MAX WIDTH, FT)	25.00	10.00	20.00	12.00	10.00	10.00
	La (APRON LENGTH, FT)	3	3	2	1	1	1
	W (TERMINAL APRON WIDTH, FT)	78	33	62	37	31	31
	TW (USE 0.2*Do IF UNK, FT)	0.0	0.05	0.04	0.02	0.02	0.02
	D_{50} (MEDIAN STONE DIAMETER, FT)	0.1	0.10	0.06	0.00	0.04	0.00
	D_{50} (MEDIAN STONE DIAMETER, IN)[2]	**1**	**1**	**1**	**0**	**1.0**	**0**
	RIPRAP LINING THICKNESS (WITHOUT FILTER LAYER, FT)	0.3	0.29	0.19	0.00	0.11	0.00
	RIPRAP LINING THICKNESS (WITH FILTER LAYER, FT)	0.2	0.19	0.13	0.00	0.07	0.00

Notes

1. Basin 2B Forebay Spillway and Basin 4 Forebay Spillway do not receive flow during the modeled projected 100-year, 24-hour design storm event. A flow depth of 0.1 feet was assumed.

2. For added factor of safety, the median diameter used in the design for all of the forebay spillways was 9 inches.

PROJECT NAME: Manchester Landfill Closure

LOCATION: Manchester Township, New Jersey

PREPARED BY: ARC **DATE:** 11-Nov-24

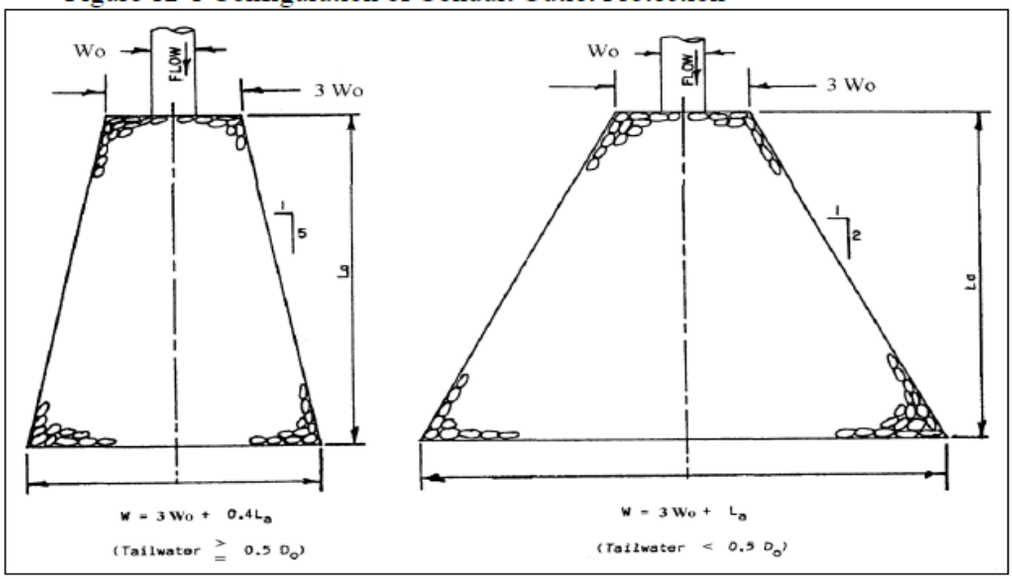
CHECKED BY: JMK **DATE:** 15-Nov-24

*NUMBERS WITH THIS STYLE REQUIRE INPUT OR SELECTION FROM USER.

	CHANNEL OR CHANNEL SECTION:	Basin 1A Forebay Inlet	Basin 1B Forebay Inlet	Basin 2A Forebay Inlet	Basin 2B Forebay Inlet	Basin 3 Forebay Inlet	Basin 4 Forebay Inlet
	CONDITION	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected	100-yr, 24-hr storm Projected
	EVALUATED FOR:	Riprap	Riprap	Riprap	Riprap		Riprap
	Q_r (REQURED CAPACITY CFS)	16.3	20.3	14.1	15.0	12.4	13.2
	q (UNIT DISCHARGE)	1.63	2.03	1.41	1.50	1.24	1.32
Forebay Inlet Spillway Dimensions	D_O (MAX HEIGHT, FT)	0.90	1.12	0.77	0.83	1.14	0.62
	W_O (MAX WIDTH, FT)	10.00	10.00	10.00	10.00	10.00	10.00
	La (APRON LENGTH, FT)	9	11	8	9	10	7
	W (TERMINAL APRON WIDTH, FT)	39	41	38	39	40	37
	TW (USE 0.2*Do IF UNK, FT)	0.2	0.22	0.15	0.17	0.23	0.12
	D_{50} (MEDIAN STONE DIAMETER, FT)	0.2	0.23	0.20	0.21	0.12	0.23
	D_{50} (MEDIAN STONE DIAMETER, IN)	3	3	2	2	1	3
	RIPRAP LINING THICKNESS (WITHOUT FILTER LAYER, FT)	0.6	0.69	0.61	0.62	0.35	0.70
	RIPRAP LINING THICKNESS (WITH FILTER LAYER, FT)	0.4	0.46	0.41	0.41	0.23	0.47

PROJECT NAME:	**Manchester Landfill Closure**		
LOCATION:	**Manchester Township, New Jersey**		
PREPARED BY:	**ARC**	**DATE:**	**11-Nov-24**
CHECKED BY:	**JMK**	**DATE:**	**15-Nov-24**

Figure 12-1 Configuration of Conduit Outlet Protection



APPENDIX C
OPERATION AND MAINTENANCE PLAN

Geosyntec consultants

engineers | scientists | innovators

OPERATIONS AND MAINTENANCE PLAN
MANCHESTER TOWNSHIP LANDFILL STORMWATER MANAGEMENT SYSTEM

Manchester Township, Ocean County, New Jersey

Prepared for:

NextGrid Manchester Landfill, LLC, Inc.
177 Huntington Ave, Suite 1703
Unit 73069
Boston, Massachusetts 02115

Prepared by

Geosyntec Consultants, Inc.
1750 American Blvd, Suite 200
Pennington, New Jersey 08534

Project JR0312

November 2024

Geosyntec consultants

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Appendix D – Owner and Lessee Lease and Development Agreement

1. PURPOSE

This Stormwater Operation and Maintenance Plan (the "Maintenance Plan") has been prepared as a supplement to the Landfill Closure and Post-Closure Care Plan (the "Closure Plan") prepared by Geosyntec Consultants, Inc. on behalf of NextGrid Manchester Landfill, LLC. The Maintenance Plan is intended to establish a detailed stormwater operation and management plan for the Manchester Township landfill stormwater management system.

2. FACILITY DESCRIPTION

The Manchester Township Landfill (landfill) occupies approximately 30 acres within Block 116, Lot 13 in Manchester, Ocean County, New Jersey. The property and the landfill are owned by Manchester Township.

The landfill closure includes a capped vegetated (grassed) landfill with pervious clean soil cover, a composting facility with impervious coarse aggregate cover, an impervious salt storage area, access roads, and access paths. The police shooting range is located to the northwest of the landfill closure. The stormwater management features were designed for runoff from these land uses as well as the solar array installed over the final cover system. The post-development stormwater management system designed for the landfill closure consists of a series of diversion berms that collect and convey stormwater runoff from the closure into six spatially distributed stormwater basins (Basin 1A, 1B, 2A, 2B, 3 and 4). The basins each consist of a sediment forebay and infiltration basin. Basins (Basin 1B, 2A, 3 and 4) whose contributing drainage area includes regulated motor vehicle surfaces were designed with an additional bioretention basin.

Maintenance easements will not be necessary for this facility. The coordinates of each stormwater basin are included in Table 1 below.

Table 1. Coordinates of Stormwater BMPs

Basin ID	Sediment Forebay	Bioretention Cell	Infiltration Basin
1A	39°57'46"N 74°24'16"W	N/A	39°57'47"N 74°24'13"W
1B	39°57'37"N 74°24'33"W	39°57'37"N 74°24'34"W	39°57'38"N 74°24'32"W
2A	39°57'30"N 74°24'28"W	39°57'30"N 74°24'29"W	39°57'30"N 74°24'30"W
2B	39°57'31"N 74°24'21"W	N/A	39°57'31"N 74°24'21"W
3	39°57'42"N 74°24'34"W	39°57'42"N 74°24'35"W	39°57'43"N 74°24'35"W
4	39°57'41"N 74°24'28"W	39°57'42"N 74°24'27"W	39°57'43"N 74°24'28"W

3. CONTACT INFORMATION

Owner Information

Name: Manchester Township, NJ

Contact: Carl Block
Address: 1 Colonial Drive
City, State, Zip Code: Manchester Township, New Jersey 08759
Telephone Number: 732-657-8121

Lessee Information

Name: NextGrid Manchester Landfill, LLC, Inc.

Contact: Daniel Serber
Address: 117 Huntington Ave, Suite 1703, Unit 73069
City, State, Zip Code: Boston, MA 02115
Telephone Number:

Should operation control of the stormwater management features identified in this OMP be changed, a formal written and signed transfer of operational control shall be made between the parties clearly identifying the responsibilities and associated budgets being transferred. The agreement shall be incorporated into this OMP.

Manchester Township and the Lessee will be jointly responsible for maintenance of the cover system and the stormwater management structures on the Site and for documentation of inspection and maintenance, including the development of a maintenance log sheet. Corrective or preventative maintenance and inspections should be documented, including copies of maintenance-related work orders.

4. STORMWATER MANAGEMENT MEASURES

Stormwater management measures on the landfill closure consist of the following:

- Stormwater Diversion Berms: Diversion berms are included in the closure plan to capture and convey runoff to one of the infiltration basins. Diversion berms are lined with vegetation and riprap.
- Culverts: culverts convey flow under access roads.
- Infiltration basins including sediment forebays and bioretention cells: Six spatially distributed stormwater infiltration basins are included in the closure, which each consist of a sediment forebay and infiltration basin. Basins whose contributing drainage area includes regulated motor vehicle surfaces include an additional bioretention basin and have a maximum drainage area of 2.5 acres. The sediment forebay includes a riser with a pipe outlet to the adjacent bioretention basin (or to the adjacent infiltration basin for the stormwater BMPs that do not have a bioretention basin) and a spillway to the infiltration basin. The bioretention basin includes a riser with a pipe outlet to the infiltration basin. The infiltration basins were designed to store the runoff volume associated with the projected 100-year, 24-hour storm without overtopping the infiltration basin spillway.

- Energy Dissipation pads: Energy dissipation pads and overflow spillways dissipate energy at stormwater outlets.

5. REFERENCE PLANS

The following plans identify the stormwater management facilities described in this OMP:

1. Drawings entitled "Landfill Closure Design, Manchester Township Landfill, Manchester Township, New Jersey," dated November 2024;
2. Report entitled "Landfill Closure and Post-Closure Care Plan, Manchester Township Landfill, Manchester Township, Ocean County, New Jersey," revised November 2024 [Closure Plan]; and
3. Report entitled "Stormwater Report, Manchester Township Landfill, Manchester Township, Ocean County, New Jersey," enclosed within the Landfill Closure and Post-Closure Care Plan, dated November 2024 [Stormwater Report].

6. MAINTENANCE

Routine maintenance shall be conducted by qualified personnel identified by the Lessee. Section 2 of the Closure Plan and section 3.6 of the Stormwater Report identify specific post-closure maintenance requirements for stormwater management which have been incorporated into this OMP. Specific maintenance tasks and frequencies are provided in **Appendix A Routine Maintenance Tables** to this OMP. The Lessee may be required to adjust the maintenance frequency based on routine visual observations of the site and stormwater BMPs described in this OMP. General guidelines for maintenance for all stormwater facilities are as follows:

1. Follow local, state, and federal safety requirements as well as public safety guidelines and requirements described in this OMP.
2. Maintenance activities shall be performed in accordance with this OMP and the Closure Plan. In the case of a conflict between the plans, the Closure Plan takes precedent.
3. Perform maintenance during daylight hours.
4. Maintenance shall be performed in a manner that minimizes impacts to resource areas.
5. Construction activities including maintenance repairs shall be performed in a manner that minimizes impacts to existing trees and vegetation adjacent to the stormwater management feature and landfill closure.
6. Sediment removal should take place when all runoff has drained and the stormwater features are dry.
7. Should maintenance of the final cover system or the access road require equipment that may affect the integrity of the final cover system, additional measures (e.g., crane mats, additional aggregate, etc.) shall be provided to protect the final cover system. The final cover system may be disrupted only with prior approval of the NJDEP and will be restored to pre-disturbance conditions in accordance with the closure design and provisions of the disruption approval.
8. Follow recommended maintenance for each facility described in Appendix A.
9. Be familiar with the landfill closure maintenance requirements outlined in the Closure Plan.
10. Disposal of debris, trash, sediment and other waste material must be done at suitable

disposal/recycling sites and in compliance with all applicable local, state and federal waste regulations.

11. Maintain an operation and maintenance log, including visual inspections, repairs, replacement and disposal (for disposal, the log shall indicate the type of material and the disposal location). A log template is included in **Appendix B**.

7. SAFETY INFORMATION

Public safety guidelines and local, state, and federal safety requirements shall be followed during maintenance activities described in this OMP. Public safety shall take priority over maintenance activities. Public safety shall include, but not be limited to, the following:

1. Operators shall have required personal protective equipment (PPE) during maintenance activities;
2. Maintenance activities that are conducted entirely or partially in a right of way, shall have proper police detail according to local and state requirements;
3. Although not anticipated, confined space entry regulations may be applied during inspection of outlet structure. Confined space entry is regulated under 29 CFR 1910, Occupational Safety and Health Administration Standards (OSHA);
4. Staff to maintain facilities should be informed of potential safety risks prior to maintenance being performed; and
5. The Lessee has a site-specific health and safety plan provided as an attachment to the Closure Plan. The Lessee will utilize their own qualified personnel or subcontract a qualified contractor to perform the maintenance obligations of the Lessee. The contractor will be required to submit a site-specific health and safety plan that addresses the major components of the work and associated hazards.

8. ACCESS

The Site will be enclosed with a fence as described in Section 2.7 of the Closure Plan. The landfill is accessed via Sam Pitts Road from a single entrance along at John Davison Rockefeller Memorial Highway (State Route 70), which is secured when the landfill is closed by a double-swing pasture gate. Temporary access roads will be constructed as necessary during closure to facilitate installation of the final cover system and other closure components.

9. TRAINING

The Contractor retained by the Lessee to perform inspections and maintenance on the stormwater management system shall become familiar with this OMP, the Closure Plan and associated Closure Drawings. The Contractor shall provide a written statement that the superintendent of the team implementing this OMP has read and is familiar with the requirements of these documents. In addition, health and safety training associated with the site include an initial site orientation training. Should maintenance repairs require intrusive work into the final cover system, additional OSHA 10- and 30- Hour Construction Safety Training, and HAZWOPER Site Controls certifications shall be provided for the team members performing the intrusive work.

10. WARRANTIES

There are no specific equipment warranties associated with the Closure Plan.

11. REPORTING

Quarterly inspection reports shall be maintained on-site and include inspection results and any associated repair logs.

12. ESTIMATED COST AND FINANCING

The annual maintenance budget for known routine maintenance activities associated with the Landfill Closure are detailed in the Closure Plan as summarized below. Unscheduled operation and maintenance may be required on special occasion either during or after large infrequent flood storm event. The annualized effort budget estimated for routine maintenance of the stormwater system described in this OMP is summarized as follows:

Table 2. Estimated Maintenance Cost

Stormwater Management System	**Total Projected Annual Maintenance Budget**
Vegetated Swales	$20,000
Energy Dissipation Pads	$5,000
Spillways	$5,000
Sediment Forebays	$5,000
Bioretention Basins	$8,000
Infiltration Basins	$20,000

13. OMP APPENDICES

The following documentation is attached to this OMP:

Appendix A –Maintenance Tables

Appendix B –Maintenance Log

Appendix C – OMP Cross Reference to Pinelands Conservation Management Plan Requirements

Appendix D – Lease Agreement

APPENDIX A

MAINTENANCE TABLES

Manchester Landfill Closure
Stormwater Management System
Maintenance Tables

Best Management Practice	Maintenance Activity	Approximate Frequency
Diversion Berms	Inspect diversion berms for accumulated sediment and debris, evidence of erosion or overtopping, rodent holes and woody vegetation. Inspect for cracking; spalling; deterioration from freezing, channel obstructions; and scour at inlet and outlet.	Quarterly
	Remove accumulated sediment and debris from localized areas of accumulation. Stabilize the denuded area where sediment was removed with seed and temporary erosion control blanket per the Closure Plan and Closure Drawings.	
	Remove established woody vegetation from the diversion berm flow path.	
	Repair disrupted and eroded sections of diversion berms per the Closure Plan and Closure Drawings. Correct any overtopping that has occurred by re-establishing the diversion berm to the design dimensions on the Closure Drawings. Stabilize any earth work with temporary seed and erosion control blanket.	
	Inspect outlets of diversion berms where diversions discharge into a downstream stormwater management facility or feature. Identify areas of erosion and if bypass is occurring at the connection. Repair eroded areas and correct drainage bypass if occurring.	
Downchutes	Inspect riprap-lined downchutes for accumulated sediment and debris, evidence of erosion or overtopping, erosion of bedding material by observing slumping of riprap, and woody vegetation.	Twice per year
	Remove accumulated sediment and debris from localized areas of accumulation.	
	Remove any established woody vegetation from the diversion berm.	
	Repair eroded sections of diversion berms to the original dimension and lining per the Closure Plan and Closure Drawings	
	Inspect outlets of downchutes where discharge into a sediment forebay (see Sediment Forebay for maintenance requirements)	
Conveyance Pipes	Inspect inlets and outlets of conveyance pipes for debris and/or clogging. Remove accumulated sediment and debris from localized areas of accumulation	Quarterly
	Inspect outlets of conveyance pipes at discharge locations into riprap energy dissipation pads. Repair and replace riprap as needed (see also Riprap Energy Dissipation Pads for maintenance requirements)	
Access Road	Inspect access road for evidence of erosion. Repair erosion of the road surface. Minor regrading may be required to reduce potential for concentrated flow along road.	Quarterly

Best Management Practice	Maintenance Activity	Approximate Frequency
Infiltration Trench and Basin	Inspect all structural components of the basin for cracking, subsidence, spalling, erosion and deterioration. Inspect side slopes for erosion, repair rills and replace denuded vegetation according to the landscape plan	Quarterly
	Remove debris from basin	
	Inspect forebay structure, remove debris, clear clogged orifice (if any)	
	Visually inspect maintenance access ramp for vegetation with woody stems that exceed 1 inch in diameter that has established and would limit access into the basin. Remove vegetation as required to maintain access into the basin via the maintenance ramp	
	Inspect riprap energy dissipation for evidence of flow bypass and erosion, restore riprap so that flow is channelized through center of riprap. See also Riprap Energy Dissipation Pads.	
	The basin must be inspected to determine if the permeability of the basin has decreased. If the actual drain time is longer than the design drain time, the components must be evaluated and appropriate restoration measures taken to return the infiltration basin to the design condition. Measures to restore infiltration capacity may include sediment removal from the surface of the trench or basin bottom with subsequent annual tilling of the sand layer, using lightweight equipment.	Twice per year
Riprap Energy Dissipation Pads	Inspect riprap lining for accumulated sediment and debris and evidence of scour or erosion of bedding material by observing slumping of riprap. Inspect sides and downstream edge of riprap apron for evidence of erosion.	Quarterly
	Remove accumulated sediment and debris from localized areas of accumulation.	
	Restore riprap lining in areas of dislodged riprap or erosion. Additional riprap may be required along edges of riprap pad to reduce potential for on-going erosion in these areas.	
Sediment Forebay	Remove accumulated sediment and debris from forebay at the specified frequency and when sediment accumulates to 50 percent of the overall forebay depth. Restore riprap or sand surface after sediment removal is complete.	Twice per year
	Inspect outlet of discharge pipe at sediment forebay and remove any accumulated sediment from pipe outlet.	
Bioretention Basin	Inspection of structural components for cracking, subsidence, spalling, erosion and deterioration.	Annually
	Components expected to receive and/or trap debris and sediment must be inspected for clogging at least four times annually	Quarterly
	Inspect vegetated areas bi-weekly when establishing/restoring vegetation, and a minimum of one inspection during the growing season and one inspection during the non-growing season is required ensure the health, density and diversity of the vegetation.	
	Vegetative cover must be maintained at 85%; damage must be addressed through replanting in accordance with the original specifications. Vegetated areas must be inspected at least once annually for erosion, scour and	Inspect once annually, replant as needed

	unwanted growth.	
	Inspect planting bed to determine if the permeability of the bed has decreased.	Twice per year
	If the bioretention system fails to drain the Water Quality Design Storm within 72 hours, corrective action must be taken and the maintenance manual revised accordingly to prevent similar failures in the future.	

The Operation and Maintenance Log is intended for stormwater improvements described in the Operations and Maintenance Plan for the stormwater management features associated with the Manchester Landfill Closure.

APPENDIX B

ROUTINE MAINTENANCE LOG

Manchester Landfill Closure
Stormwater Management System
Maintenance Tables

Date	Description of Maintenance	Operator	Estimated Volume of Material Removed (CYD)	Disposal Facility

The Operation and Maintenance Log is intended for stormwater improvements described in the Operations and Maintenance Plan for the stormwater management features associated with the Manchester Landfill Closure

APPENDIX C

OMP Cross Reference to Pinelands Conservation Management Plan Requirements

Pinelands Commission Stormwater Checklist Supplement

The sections below specifically address the Pinelands Commission Stormwater Checklist item 16 for the stormwater Maintenance Plan.

16. *The General Inspection, Maintenance and Repair Plan shall contain the following [NJAC 7:50-6.84(a)6vii]:*
    - I. *Accurate and comprehensive drawings of the site's stormwater management measures;*
        - *i.* The drawings attached to the Landfill Closure and Post-Closure Care Plan show the site's stormwater management measures in detail.
    - II. *Specific locations of each stormwater management measure identified by means of longitude and latitude as well as block and lot number;*
        - *i.* **Section 2** includes the Lat / Long as well as block and lot number.
    - III. *Specific preventative and corrective maintenance tasks and schedules for such tasks for each stormwater BMP;*
        - *i.* **Appendix A – Maintenance Tables** includes relevant preventative maintenance and schedules for the stormwater management measures.
    - IV. *Cost estimates, including estimated cost of sediment, debris or trash removal;*
        - *i.* **Table 2** includes estimated cost of maintenance activities.
    - V. *The name, address and telephone number of the person or persons responsible for regular inspections and preventative and corrective maintenance including repair and replacement;*
        - *i.* Manchester Township and NextGrid are jointly responsible for regular inspections, preventative maintenance, and corrective maintenance
            - *a.* Manchester Township
                a. Carl Block
                b. cblock@manchestertwp.com
                    i. 732-657-8121
                    ii. 1 Colonial Drive, Manchester Township, New Jersey 08759
            - *b.* NextGrid Manchester Landfill, LLC
                a. Daniel Serber
                b. 177 Huntington Ave, Suite 1703, Unit 73069, Boston, Massachusetts 02115

VI. *Reporting records for maintenance;*

i. Manchester Township will maintain records for maintenance performed on the site.

VII. *A description of the financing that will ensure the inspection, maintenance and repair of all stormwater management BMPs;*

i. Appendix D includes a development agreement containing the responsibilities of the owner and lessee on the inspection, maintenance and repair of stormwater management BMPS.

VIII. *The plan must address existing tree and vegetation protection during construction;*

i. Although the spatial footprint of the stormwater BMPs was minimized during the design process, some existing vegetation will need to be removed during the construction process. Surrounding off-site vegetation will be protected by implementation of the soil erosion and sediment control plan.

IX. *A statement that an inspection, maintenance and repair report will be updated and submitted annually to the municipality;*

i. Not applicable. The Township, as the property owner, will be responsible for inspections and reporting as part of the Closure Plan.

X. *A description of all preservation measures and maintenance procedures for all non-structural stormwater management measures; and*

i. The non-structural components of the stormwater management plan include stabilized vegetation that will cover the landfill. The Closure Plan requires that the site is stabilized and regularly maintained. Vegetative maintenance is covered in Section 2.2 of the Closure Plan.

XI. *A description of all stormwater management measure easements designed to facilitate inspections and maintenance as necessary.*

i. No easements are necessary for this site.

APPENDIX D

LEASE AGREEMENT

#22-093

RESOLUTION OF THE TOWNSHIP COUNCIL OF THE TOWNSHIP OF MANCHESTER, COUNTY OF OCEAN, STATE OF NEW JERSEY, APPROVING ACCEPTANCE AND EXECUTION OF THE FIRST AMENDMENT FOR LEASE AGREEMENTS WITH NEXTGRID MANCHESTER LANDFILL LLC

WHEREAS, the Township Council of the Township of Manchester, County of Ocean, State of New Jersey (hereinafter referred to as the "Township") has previously entered into a Land Lease Agreement ("Agreement") with NextGrid Manchester Landfill, LLC (hereinafter referred to as "NextGrid"); and

WHEREAS, the Lease Agreement is dated January 20, 2020, and pertains to the proper closure of the Township landfill and the instillation of solar panels on the landfill, all at the cost of NextGrid; and

WHEREAS, the original terms of the Agreement provided that the development period would commence on the effective date and terminate 12 months thereafter; and

WHEREAS, the Agreement provided that the effective date would be the date that the Agreement was fully executed by all parties; and

WHEREAS, pursuant to the plain language of the Agreement, the development period should have commenced, but because of environmental and regulatory issues, although diligently pursuing the approvals, NextGrid has not yet received all necessary approvals from NJDEP and the Pinelands Commission; and

WHEREAS, the Township acknowledges that although the development period expired on or about January 27, 2021, by its own terms and conditions, and was inadvertently not extended by agreement between NextGrid and the Township, furthermore the parties recognize that the project is ongoing and must be completed in order to provide for the best result for the taxpayers and citizens of the Township; and

NOW, THEREFORE, BE IT RESOLVED, this 14th day of February 2022, by the Township Council of the Township of Manchester, County of Ocean, State New Jersey as follows:

1. The Township agrees to amend the aforementioned Agreement to provide that Section 5(b) of the Agreement shall read:

   "The Development Period shall commence on the effective date and Terminate on the Lease Commencement date."

2. Other than as modified herein the Township reaffirms the Agreement dated January 20, 2020.

3. The Township authorizes and directs the Mayor and Municipal Clerk to execute any and all necessary documents in order to implement the intent of this Resolution.

BE IT FURTHER RESOLVED that a certified copy of this Resolution shall be forwarded by the Municipal Clerk to the following:

(a) The Honorable Robert Hudak, Mayor;
(b) Joan Brush, Council President;
(c) Brandon Umba, Township Administrator;
(d) Robert Mullin of Colliers Engineering;
(e) Jerry J. Dasti, Esquire;

CERTIFICATION

I, Sabina T. Martin, Clerk of the Township of Manchester, County of Ocean, State of New Jersey, do hereby certify the foregoing to be a true and correct copy of a Resolution adopted by the Township Council at a meeting held on the **24th day of January 2022**.

Sabina T. Martin, RMC
Municipal Clerk

FIRST AMENDMENT TO LAND LEASE AGREEMENT

This First Amendment to the Land Lease Agreement ("Amendment") is entered into as of December 14, 2021 ("Effective Date") by and among Town of Manchester NJ (the "Lessor") and NextGrid Manchester Landfill LLC (the "Lessee") (each a "Party" and together, the "Parties").

Recitals

WHEREAS, the Parties entered into that certain Land Lease Agreement on January 20, 2020 (the "Agreement"); and

WHEREAS, the Parties wish to amend provisions of the Agreement set forth below pursuant to Section 30 of the Agreement.

NOW, THEREFORE, in consideration of the premises and the mutual covenants contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. Capitalized Terms. Capitalized terms used herein without meaning shall have the meaning given to such terms in the Agreement.

2. Amendments.

   a. **Section 5(b)**: Substitute the section such that Section 5(b) shall state, "The Development Period shall commence on the Effective Date and terminate on the Lease Commencement Date."

3. Reaffirmation. Except as expressly amended by this Amendment, all other terms, covenants and conditions contained in the Agreement shall remain in full force and effect and are hereby ratified and confirmed in all respects.

4. Headings. The headings contained herein are solely for convenience of reference and shall not be deemed to have substantive meaning.

5. Counterparts. This Amendment may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which shall be deemed to be an original, but all of which taken together shall constitute one and the same agreement. Delivery of an executed counterpart of this Amendment by telefacsimile or electronic mail shall be equally as effective as delivery of an original executed counterpart of this Amendment.

6. Entire Agreement. The Agreement, as amended by this Amendment, constitutes the entire understanding and agreement between the parties hereto with respect to the subject matter hereof and supersedes any and all prior or contemporaneous agreements or understandings with respect to the subject matter hereof, whether express or implied, oral or written.

[Signature Page to Follow]

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the date first above written.

Lessor:	**Lessee:**
Town of Manchester NJ By: _____ Name: Title:	**NextGrid Manchester Landfill LLC** By: _____ Name: Doug Williams Title: Managing Member

EXHIBIT E
MEMORANDUM OF LEASE

RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:

(SPACE ABOVE THIS LINE FOR RECORDER'S USE)

MEMORANDUM OF LEASE

THIS MEMORANDUM OF LEASE (this "**Memorandum**") is made as of January 27, 2020 (the "**Effective Date**") by and between the Manchester Township ("**Lessor**") and NextGrid Manchester Landfill LLC ("**Lessee**"). Such parties are collectively referred to herein as the "**Parties**" and individually as a "**Party**."

RECITALS

A. Lessor and Lessee are entering into a Lease Agreement dated as of the same date of this Memorandum and referred to in this Memorandum as the "**Lease**". The Lease pertains to certain premises depicted on Exhibit B attached hereto (the "**Leased Premises**"). The Leased Premises are a portion of the land legally described on Exhibit A attached hereto.

B. Lessor and Lessee desire to put third parties on notice of some of the terms and provisions of the Lease.

NOW THEREFORE, in consideration of the foregoing Recitals and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

1. **INCORPORATION OF TERMS.** All of the terms and provisions of the Lease are incorporated in this Memorandum by this reference with the same force and effect as of set forth in full in this Memorandum. Capitalized terms used in this Memorandum without definition will have the same meanings as set forth in the Lease. In the event of any inconsistency between the terms of this Memorandum and the Lease, the terms of the Lease will prevail as between Lessor and Lessee.

2. **LEASE OF PREMISES.** By this Memorandum and by the Lease, as of the Effective Date, Lessor hereby leases the Leased Premises to Lessee and Lessee leases the Leased Premises from Lessor.

3. **LEASE TERMS.** Among other things, the Lease provides the following:

   3.1. Term. The Lease provides that the original term of the Lease will be approximately twenty five (25) years, with three (3) options for Lessee to extend the term of the Lease, each for a five (5) year period, which Lessee may exercise in its sole discretion.

   3.2. Use. Lessee is granted the right to use and occupy the Leased Premises for installing and operating one or more solar photovoltaic electric generating systems, designed to produce electricity and deliver such electricity to the electric interconnection point, and all related appurtenances.

   3.3. Other Terms. The Lease contains other terms, as more fully set forth therein. In the event of a conflict between the terms of the Lease and the terms of this Memorandum of Lease, the terms of the Lease shall control

4. **GENERAL.** This Memorandum and the Lease shall be binding upon and inure to the benefit of the Parties and their respective transferees, successors and assigns. This Memorandum may be executed in counterparts, each of which, when taken together, will constitute one and the same instrument. All Exhibits attached to this Memorandum are incorporated herein by this reference.

IN WITNESS WHEREOF, Lessor and Lessee have executed this Memorandum as of the day and year first above written.

LESSEE: NextGrid Manchester Landfill LLC

By: _____
Name: Aaron Culig
Title: Managing Partner

LESSOR: Township of Manchester

By: _____
Name: KENNETH PALMER
Title: MAYOR

ALL SIGNATURES TO BE NOTARIZED

EXHIBITS

Exhibit A - Legal Description
Exhibit B - Site Plan

ACKNOWLEDGMENT OF LESSOR

STATE OF NEW JERSEY)
) ss.
COUNTY OF OCEAN)

On Jan 27, 2020, before me, JERRY J. DASTI, An Attorney at Law of New Jersey, personally appeared KENNETH PALMER, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of New Jersey that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Jerry J. Dasti
Attorney at Law
State of New Jersey

(Seal)

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Francisco)

On January 7, 2020 before me, F. Gomez, notary public
(insert name and title of the officer)

personally appeared Aaron Karlton Culig,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

F. GOMEZ
Comm. #2228586
Notary Public · California
San Francisco County
Comm. Expires Jan 12, 2022

Signature _____ (Seal)

Exhibit A
Description of Property

DESCRIPTION OF A PARCEL
KNOW AS BLOCK 116, LOT 13
LOCATED IN THE TOWNSHIP OF MANCHESTER,
COUNTY OF OCEAN, STATE OF NEW JERSEY

COMMENCING at a point in the northerly right-of-way line of New Jersey State Highway Route 70 (NJSHR 70), located approximately 3,266.8 feet west of the intersection of the northerly right-of-way line of NJSHR70 and the westerly right-of-way line of Ocean County Route 539, and located at the common property line of Lot 7, Block 116, to a point and place of BEGINNING, and from said point running:

Approximately South 86°46'58" West a distance of approximately 1,532.76 feet along the northerly right-of-way line of NJSHR 70 to a point, thence;

Approximately North 15°5'34" West a distance of approximately 2,162.6 feet along the common property line of Lot 1, Block 117 to a point, thence;

Approximately North 75°13'08" East a distance of approximately 1,732.3 feet along the common property line of Lot 7, Block 116 to a point, thence;

Approximately South 40°30'21" East a distance of approximately 591.75 feet along the common property line of Lot 7, Block 116 to a point, thence;

Approximately South 0°59'0.1"East a distance of approximately 1,994.3 feet along the common property line of Lot 7, Block 116n to the point and place of BEGINNING.

The above referenced parcel being known as Block 116, Lot 13, which contains approximately 98.64 acres.

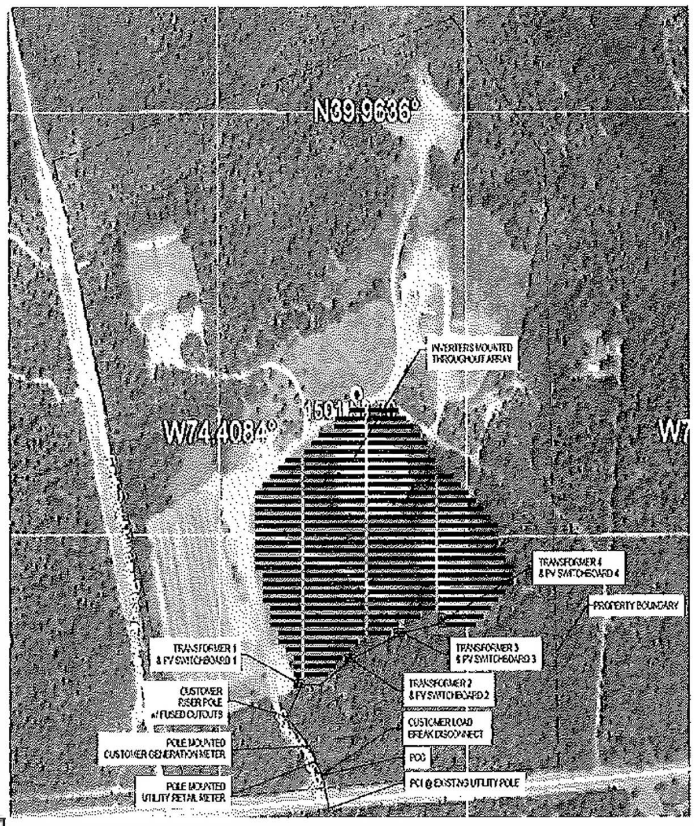
EXHIBIT B
DEPICTION OF PROPERTYAND PREMISES



LOCATION MAP:

SITE PLAN NOTES:

1. CUSTOMER/UTILITY EQUIPMENT POLES SHALL BE 35 APART MINIMUM.
2. UTILITY POLE CONFIGURATION PER UTILITY REQUIREMENTS. UNLABELED POLES SHOWN FOR REFERENCE ONLY.
3. 20' WIDE ACCESS ROAD PROVIDED FOR UTILITY ACCESS AND SHALL BE ACCESSIBLE 24/7.
4. POC (POINT OF CONNECTION) LOCATED ON THE UTILITY (LINE) SIDE OF THE MAIN SYSTEM DISCONNECT SWITCH.





PROJECT DATA	
SITE:	MANCHESTER TOWNSHIP 1501 NJ-70 WHITING, NJ 08759
SOLAR ARRAY:	
PANEL:	12,672 PANELS @ 365 WATT EACH INSTALLED IN STRINGS OF 18 MODULES
RACKING:	MOUNTED AT 25 DEG TILT
INVERTERS:	(64) SOLECTRIA XGI 1000-50 60

MANCHESTER TOWNSHIP
1501 NJ-70
4.62 MW DC / 3.2 MW AC
PV Power System

0 150 300 600
GRAPHIC SCALE IN FEET
1" = 150'-0"

ARC DESIGN
SALEM COUNTY OFFICE
109 NORTH MAIN STREET
ELMER, NJ 08318
(856) 712-7166 FAX: (856) 358-1511

PROPOSED PHOTOVOLTAIC ARRAY
MANCHESTER TOWNSHIP
1501 NJ-70
WHITING, NJ 08759

JAMES A. CLANCY
N.J. PROFESSIONAL ENGINEER

REVISIONS	
DATE	COMMENT

C-1

Attachment G

Geosyntec consultants

Material Acceptance Protocol

Manchester Township Landfill Closure
Manchester Township, Ocean County, New Jersey

Prepared for

NextGrid Manchester Landfill, LLC, Inc.
177 Huntington Ave, Suite 1703
Unit 73069
Boston, Massachusetts 02115

Prepared by

Geosyntec Consultants, Inc.
1750 American Blvd, Suite 200
Pennington, New Jersey 08534

Project JR0312

July 2025

Geosyntec consultants

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Attachment A Soil Analytical Evaluation for Reuse of On-Site Soils for Landfill Capping

1. INTRODUCTION AND BACKGROUND

1.1 Terms of Reference

This Material Acceptance Protocol (MAP) is being provided with the Landfill Closure and Post-Closure Care Plan (Closure Plan) for the proposed closure of the Manchester Township Landfill. Geosyntec Consultants, Inc. (Geosyntec) has prepared this MAP on behalf of NextGrid Manchester Landfill, LLC, Inc. of Boston, Massachusetts (Developer) in accordance with the New Jersey Department of Environmental Protection (NJDEP) regulations for sanitary landfills promulgated by New Jersey Administrative Code (N.J.A.C.) 7:26-2A.9 (solid waste regulations).

1.2 Objectives of Material Acceptance Protocol and Fill Use Plan

The objective of the MAP is to describe the procedures and standards for importing and using off-site soil and aggregate materials (fill material) in the Manchester Township Landfill closure. Specifically, the MAP describes the identification, evaluation, acceptance, and tracking of off-site soils and aggregate in accordance with N.J.A.C. 7:26-2A9(e)(4)(xx).

1.3 Contact Information

The Landfill is currently owned by Manchester Township. The contact information of the primary parties involved in the closure is presented below.

Owner
Carl Block, Administrator
Manchester Township
1 Colonial Drive
Manchester, N.J. 08759
732-657-8121

Developer
Daniel Serber
NextGrid Manchester Landfill, LLC, Inc.
177 Huntington Ave, Suite 1703
Unit 73069
Boston, Massachusetts 02115

Engineer of Record
Thomas Ramsey, P.E.
10211 Wincopin Circle, 4th Floor
Columbia, Maryland 21044
410-707-6607

2. PROPOSED FILL MATERIALS AND SOURCES

The proposed uses and approximate quantities of fill material required for the closure of the Manchester Township Landfill are described below. The landfill closure will include the use of up to approximately 152,000 cubic yards (CY) of fill material. Descriptions of the materials, anticipated uses, quantities, and sources are provided below. The features described below are shown on Drawing 4 and in detail on Drawings 5 and 6 of the Permit Drawings (Attachment B to the Closure Plan).

- Cover Soil (100,000 CY) will be fine to coarse sand placed above the subgrade surface as the first layer of the permeable soil final cover system. Cover Soil will be sourced from (i) spoils from the excavation of the stormwater infiltration basins; (ii) an onsite borrow area to be excavated during closure construction; and (iii) imported from a commercial quarry or sand pit.
- Topsoil (25,000 CY) will be vegetative support soil placed above the Cover Soil to support vegetation and minimize erosion of the final cover system. Topsoil will be sourced from an off-site source or manufactured on-site from sand excavated from the on-site borrow area and compost or other amendment from an off-site source.
- Riprap (5,000 CY) will be used to construct various components of the stormwater management system. Riprap will be virgin broken stone meeting the size requirements shown on the Drawings sourced from a commercial quarry.
- Crushed Stone and Coarse Aggregate (12,000 CY) will be used to construct the access roads and aggregate surfaced compost and recycling areas, passive landfill gas vents, as bedding for stormwater culverts, levelling pads for the solar panel ballast blocks, and for drainage swale check dams. Crushed Stone will be clean stone conforming to the New Jersey Department of Transportation (NJDOT) requirements for No. 3 and No. 57 Aggregates and will be sourced from a commercial quarry.
- Dense Graded Aggregate (DGA) (10,000 CY) will be used to backfill the public recycling area. DGA will meet the NJDOT requirements for Dense-Graded Aggregate and will be sourced from a commercial quarry.

The specific required physical, geotechnical, and chemical properties of the fill materials are described in the Construction Specifications, which are included as Attachment F to the Closure Plan. The specific source(s) and materials will be selected during the construction phase in accordance with the evaluation procedures described in Section 2 of this MAP. Actual sources and material properties for each of the fill materials will be provided in the construction certification report.

3. IMPLMENTATION OF THE MAP

Imported materials will be subject to pre-qualification and conformance measures to track and document the source history, testing, transport, and placement of imported fill material as described in the following sections.

3.1 Prequalification of Fill Sources

Cover Soil from On-Site Sources

Cover Soil sourced from the excavation of stormwater management basin or the onsite borrow area are characterized based on various field investigations, which indicate that the subsurface generally consists of a fine to coarse sand. Because the source is on-site and the subsurface conditions and materials are well understood, no additional pre-qualification is required.

Topsoil

Topsoil imported from a topsoil manufacturing facility or other off-site source will be prequalified based on testing one sample for the physical and geotechnical properties required by the Construction Specifications and an evaluation of historical chemical testing data. Results of that evaluation will be submitted to the NJDEP Bureau of Sustainable Waste Management (BSWM) for approval prior to being approved by the Developer as a qualified source.

Topsoil sourced from the excavation of stormwater management basins or the onsite borrow area will not require prequalification.

Riprap, Crushed Stone, Dense-Graded Aggregate, and Imported Cover Soil

For each off-site source of Riprap, Crushed Stone, DGA, and Cover Soil proposed by the Contractor, the Contractor will submit source information, geotechnical laboratory test data meeting the requirements of the specifications, and any other requested information to the satisfaction of the CQA Consultant. Source information will include, at a minimum, documentation that the quarry is authorized to operate as a commercial quarry by relevant state authorities and that the material is consistent with the following:

- Excavated from undisturbed geologic formations;
- Obtained from a licensed quarry/mine;
- Not located on or impacted by other contaminant sources;
- Not comingled with any other material;
- Not known or suspected of being contaminated;
- Not adversely impacted by discharges of hazardous materials or chemical application;

- Not affected by conditions or processes that would result in the introduction of contaminants into the licensed quarry/mine material in concentrations above regulatory concern; and
- Not affected by conditions or processes that would increase the concentrations of contaminants already present in the licensed quarry/mine material to concentrations above regulatory concern.

If, at the discretion of the CQA Consultant, the proposed source is acceptable based on the information provided, the source will be considered prequalified as a material source. Following pre-qualification, conformance testing, as described in Section 3.2, will be performed prior to material being approved for use on-site.

Prequalification information will be submitted through a formal submittal process to be described in the Construction Specifications. For each submittal, the CQA Consultant will provide a formal response documenting whether the provided information is adequate to prequalify the proposed source. The submittals and responses will be included in the construction certification report.

3.2 Conformance Testing and Acceptance

During construction, conformance testing will be performed on an ongoing basis at a frequency described herein and in the Construction Documents to ensure the imported material is consistent with that evaluated during the prequalification and conformance phases. Requirements for conformance testing of each material are described below.

Cover Soil from On-Site Sources

Cover Soil will be subject to physical and geotechnical properties testing to verify conformance with the Construction Specifications at a frequency of one test per 5,000 cubic yards and any portion thereof placed.

Cover Soil will also be subject to conformance chemical testing. Chemical tests will be performed to evaluate concentrations of constituents on the target compound list (TCL)/target analyte list (TAL) and extractable petroleum hydrocarbons (EPH) in accordance with the Reduced Sampling Scheme in Table 2 of the NJDEP Site Remediation Program's (SRP) *Fill Material Guidance for SRP Sites, Version 3.0, 4/2015* (FMG). Results will be compared to the most stringent of the NJDEP Residential and Non-Residential Ingestion-Dermal and Inhalation Soil Remediation Standards.

Cover Soil to be sourced from excavation of the stormwater management basins has previously been evaluated according to the analytical requirements above and is acceptable for use onsite (Attachment A). Field observations of the geotechnical properties of the material during previous site investigations indicate that native sand material is acceptable for use as cover soil.

Topsoil

Topsoil imported from a topsoil manufacturing facility or other off-site source will be subject to physical and geotechnical properties testing to verify conformance with the Construction Specifications at a frequency of one test per 5,000 cubic yards and any portion thereof placed.

Topsoil imported from a topsoil manufacturing facility or other off-site source will also be subject to conformance chemical testing. Chemical tests will be performed to evaluate concentration of constituents on the TAL/TCL and EPH in accordance with the Reduced Sampling Scheme in Table 2 of the FMG. Results will be compared to the most stringent of the NJDEP Residential and Non-Residential Ingestion-Dermal and Inhalation Soil Remediation Standards.

Topsoil to be sourced from excavation of the stormwater management basins has previously been evaluated according to the analytical requirements above and is acceptable for use onsite (Attachment A). Prior to placement on the landfill, the topsoil will be subject to geotechnical/agricultural properties and, if necessary, be amended following placement to meet the requirements of the Specifications. Amendments (e.g., lime to raise pH and/or compost to increase organic content) will be sourced from commercial and/or permitted sources.

Riprap, Crushed Stone, Dense-Graded Aggregate, and Cover Soil from Off-Site Sources

Riprap will not be subject to specific conformance testing but will be visually inspected upon delivery to the site to verify that it meets the size requirements of the Construction Specifications. A bill of lading will be collected with each load of Riprap delivered to verify that the material was delivered from a prequalified source.

Crushed Stone, DGA, and Cover Soil from Off-Site Sources will be subject to visual inspection and particle-size analysis to verify conformance with the Construction Specifications at a frequency of one test per 10,000 cubic yards and any portion thereof placed. Bills of lading for each Crushed Stone and DGA load will be collected to verify that the material was delivered from a prequalified source.

Riprap, Crushed Stone, DGA, and Cover Soil from Off-Site Sources will not be subject to conformance chemical testing if the materials are virgin material from licensed commercial sources (e.g., a licensed quarry). Riprap, Crushed Stone, DGA, and Cover Soil from non-commercial sources will be tested as described for Topsoil and Cover Soil from On-Site Sources.

3.3 Handling, Placement, and Tracking of Fill Materials

Fill material will be loaded, transported, stockpiled, and placed using traditional earthmoving equipment. Imported fill material will generally be placed immediately upon delivery to the Site to minimize handling. However, in the case where materials are stockpiled onsite, stockpiles will be located within portions of the proposed Borrow Area that have not yet been excavated such that the material is not impacted by waste, chemicals used during construction, or other potential contaminants. The area will be prepared by removing surface debris and fill prior to stockpiling.

To ensure all shipments of material received are approved materials from approved sources, the contractor will collect bills of lading for material imported to the Site and provide copies to the Developer and CQA Consultant. The CQA Consultant will review the bills of lading to confirm that the source and material are consistent with those tested and ordered for delivery. If a bill of lading indicates that a material is not an approved material, the material will not be unloaded unless the Contractor can demonstrate that the material has been approved. If the material is confirmed to be a non-approved material, it will not be unloaded at the Site and will be returned to the source listed on the bill of lading.

The Contractor will be responsible for tracking quantities of material received on-site. Tracking may comprise maintaining truck counts of all materials imported, stockpiled, and placed onsite to allow for an estimate of the volume placed at receiving locations. The Contractor's surveyor will be responsible for surveying the as-built conditions at various milestones during construction to document the volumes of material placed.

3.4 Documentation

To demonstrate compliance with the MAP, prequalification, conformance evaluation, and onsite material tracking will be formally documented in submittals, submittal responses, laboratory reports, and daily field reports, all of which will be appended to the construction certification report.

4. REFERENCES

New Jersey Department of Environmental Protection (NJDEP) *Solid and Hazardous Waste Management Program Regulations NJAC7:26-2A.9*.

New Jersey Department of Environmental Protection (NJDEP) (2015) *Fill Material Guidance for SRP Sites*, Version 3.0, April 2015.

Attachment A

Geosyntec consultants

1750 American Boulevard, Suite 200
Pennington, New Jersey 08534
PH 609.493.9011
www.geosyntec.com

Memorandum

Date: May 8, 2025

To: Daniel Serber, NextGrid Manchester Landfill, LLC

From: Mike Nolden and Ed Horai, Geosyntec Consultants

Subject: Soil Analytical Evaluation for Reuse of On-Site Soils for Landfill Capping
Manchester Township Landfill Closure
Manchester Township, Ocean County, New Jersey

BACKGROUND AND SITE INFORMATION

This memorandum is being provided to support the forthcoming Landfill Closure and Post-Closure Care Plan (Closure Plan) for the proposed closure of the Manchester Township Landfill (landfill). The landfill is located at 110 Sam Pitts Road in Manchester Township, Ocean County, New Jersey (Site). The New Jersey Department of Environmental Protection (NJDEP) identifies the Site as a solid waste facility with Program Interest (PI) #132555. The property and landfill are owned by Manchester Township and will be undergoing landfill closure and solar development under the direction of NextGrid Manchester Landfill, LLC. The landfill is situated on an approximately 30-acre parcel, and the proposed closure covers an area of approximately equal size. As discussed with the NJDEP on a 20 February 2025 conference call, the Closure Plan will describe the proposed closure and solar development activities at the Site. The Material Acceptance Protocol (MAP), which will be appended to the Closure Plan, will describe the requirements for evaluating soils to be used to perform the closure.

The purpose of this memorandum is to present the results of the sampling and analysis conducted to characterize native soil at the Site for use as cover soil. At the time of sampling, we estimated 58,000 cubic yards (cy) of cover soil and 11,000 cy of topsoil will be sourced from the proposed stormwater management basins (Basins) (**Figure 1)**. During the sampling event described in this memorandum sufficient samples were collected to characterize 11,000 cy of topsoil and the uppermost approximately 46,000 cy of cover soil. Sampling of the deeper cover soil (i.e., those samples deeper than 8 feet below ground surface [ft bgs]) will be deferred to a second mobilization after construction begins but before soil excavation commences. The reasoning behind this deferment is that the deeper samples required a larger excavator to reach, and, therefore, require trees and brush to be cleared for sampling. Further, modifications to the proposed stormwater basins since sampling, specifically increasing the size of Basin 1A, will also require additional sampling. We have not yet prepared a plan to sample the soil from the additional area within the modified Basin 1A. Upon sampling the remaining soil, we will prepare a similar memorandum to summarize the sampling and results.

The Basins encompass an area of approximately 6.59 acres (287,000 square feet) and subsurface soil consists of fine to coarse sand. As described in the MAP, soils from the Basins are to be characterized in accordance with the NJDEP Site Remediation Program's (SRP) Fill Material Guidance for SRP Sites, Version 4.0, October 2021 (FMG) to demonstrate suitability for use as cover soil.

SOIL CHARACTERIZATION SAMPLING

The Basins include six individual areas (Basins 1A, 1B, 2A, 2B, 3 and 4), as shown on **Figure 1**, and samples were collected from each area with a total of 83 samples (59 cover soil and 24 topsoil) taken from 36 test pit locations. The topsoil depth encountered, and therefore topsoil samples collected, in each Basin ranged from 0 to 2 ft bgs. The approximate volume of each Basin and the number of samples collected from each Basin are shown on **Table 1**. The depths from which samples were collected are summarized in **Table 2**. As described above, the remaining volume of cover soil to be sampled during a future mobilization consists of, at a minimum, an additional 12,000 cy which will be characterized via 12 additional samples, per the MAP and SRP FMG. Furthermore, because it is anticipated that Basin 1A will increase in size to maximize use of onsite soils for landfill closure, additional samples will be collected such that all Basin 1A soils are characterized in accordance with the MAP and SRP FMG.

On January 21st through 27th, 2025, test pits were excavated in Basins 1A through 4 (**Figure 1**) via a mini excavator operated by a Geosyntec subcontractor. Geosyntec oversaw the test pit excavation onsite and visually inspected the soils to identify the materials in the Basins such that soil samples were collected only from the target material (i.e., topsoil or cover soil), from the prescribed depths, and that no visible waste was present in the test pits.

During this mobilization, Geosyntec collected 59 cover soil samples and 24 topsoil samples (**Table 1**), which represents a frequency of one sample for each approximately 780 cy of cover soil and 458 cy of topsoil based on the current volume estimates. As previously stated, at a minimum an additional 12 soil samples at deeper depths from the areas shown on Figure 1 will be collected during a future mobilization to characterize the remaining approximately12,000 cy of cover soil.

Pursuant to the NJDEP FMG, soil samples were analyzed for Target Analyte List/Target Compound List plus 30 (TAL/TCL+30) and Extractable Petroleum Hydrocarbons (EPH). Analysis was performed by Eurofins Environment Testing Northeast, LLC (Eurofins). Results of soil samples collected from the Basins were compared to the applicable NJDEP Remediation Standards pursuant to N.J.A.C. 7:26D. Pursuant to the NJDEP Evaluation of Extractable Petroleum Hydrocarbons in Soil Technical Guidance (Version 1.0, June 2019) (EPH guidance), results for soil samples analyzed for EPH were compared to the default Ecological Screening Criteria (ESC), the default EPH product limit, and the residential and non-residential EPH Soil Remediation Criterion (SRC) values, respectively. Pursuant to Tables 1 through 5 of the NJDEP Remediation Standards (N.J.A.C. 7:26D), soil samples analyzed for TAL/TCL+30 were

compared to the NJDEP Soil Remediation Standards (SRS) for the Ingestion-Dermal Exposure Pathway – Residential (IDEP-R), Ingestion-Dermal Exposure Pathway – Non-Residential (IDEP-NR), Inhalation Exposure Pathway – Residential (IEP-R), Inhalation Exposure Pathway – Non-Residential (IEP-NR), and Migration to Ground Water Exposure Pathway (MGWEP) for all parameters.

Geosyntec collected samples for quality assurance/quality control (QA/QC) purposes, which included one field blank per day of sampling, one duplicate sample and one matrix spike/matrix spike duplicate (MS/MSD) per 20 parent soil samples, and one Trip Blank per sample shipment. Consistent with the samples collected from the Basins, the QA/QC samples were analyzed for the TAL/TCL+30 and EPH.

Following sample collection, all test pits were backfilled with soils excavated from that location such that the area was restored to match pre-investigation conditions to the extent feasible. No investigation derived waste (IDW) was generated during this event.

During this mobilization, no visible waste was observed in the test pits excavated. However, during construction onsite Construction Quality Assurance (CQA) personnel will determine the suitability of the excavated soils based on visual observation. Only soils visually consistent with the native soil (i.e., yellow-brown fine to medium well-sorted sand) will be used as cover soil. All other material will be removed from the Basins and stockpiled outside of the project area.

ANALYTICAL RESULTS

Of the 83 samples collected during this event, there was only one analyte concentration that exceeded the most stringent applicable NJDEP SRS (Pursuant to NJAC 7:26D). Results from sample 2A-01-TS, which is a topsoil sample from Basin 2A, indicated a mercury concentration of 0.14 mg/kg which exceeds the NJ SRS Migration to Groundwater (MGW) standard of 0.10 mg/kg. The Synthetic Precipitation Leaching Procedure (SPLP) was conducted for mercury on this sample for comparison to the NJ SRS Leachate MGW standard of 40 ug/L. The SPLP resulted in a leachate mercury concentration below the Minimum Detection Limit (MDL) of 0.091 ug/L. Additionally, the mercury detection of 0.14 mg/kg is equal to the 90th percentile of background concentrations for the Coastal Plain Province, as stated in Table 1 of the Ambient Level of Metals in New Jersey Soils – NJDEP Research Project Summary (May, 2003). Therefore, these results are not cause for further testing or rejection of the soil represented by this sampling event. The full laboratory reports from Eurofins are included in **Attachment 1**.

Note that due to the sequencing of the laboratory analyses, approximately half of the cover soil samples from each basin were put on hold pending the results of the first half of the samples. This resulted in several samples from each basin being analyzed outside the formal hold time. However, in this case, we consider the results to be acceptable because hold times are most critical for VOC analytes and (1) there are no field observations to indicate the presence of VOCs, (2) the PID used during sampling did not indicate the presence of VOCs, and (3) there

are no results from testing performed within hold times to indicate the presence of VOCs near or above the relevant standards.

CLOSING

A soil sampling plan, designed in accordance with the MAP and based on Geosyntec's experience with similar sampling, was executed to obtain analytical data on proposed stormwater management basin soils in Basins 1A, 1B, 2A, 2B, 3 and 4 to demonstrate its suitability for use as cover soil in accordance with the Closure Plan. The samples were collected and analyzed, according to applicable NJDEP SRP requirements for clean fill material, for TAL/TCL + 30 and EPH. As put forth in the MAP, the results of these samples were compared against the most stringent NJDEP Residential and Non-Residential-Dermal and Inhalation SRS. In accordance with the MAP and SRP Fill Guidance, the results indicate that the soils in Basins 1A, 1B, 2A, 2B, 3 and 4 are suitable for unrestricted reuse in the proposed landfill closure without further testing.

Deeper soils (i.e., those more than 8 ft bgs) within the Basins and soils from the additional areas of Basin 1A will be characterized using a similar sampling scheme prior to their use as cover soil.

* * * * *

Table 1: Proposed Stormwater Management Basin Volumes and Soil Sampling Summary

Basin ID	Volume Cut (cy)	Total Depth Sampled (ft bgs) (1)	Total # of Test Pits	Total # of Samples (1)	
				Topsoil	Cover Soil
Basin 1A	17,565	8	7	6	12
Basin 1B	7,805	8	6	4	9
Basin 2A	24,110	8	9	4	16
Basin 2B	11,311	8	7	5	12
Basin 3	2,822	8	3	2	4
Basin 4	4,673	8	4	3	6
Total	68,286	-	36	24	59
Total Samples				**83**	
Notes:	1. Total depth Sampled and number of samples are for samples collected during the event described in this memorandum. Deeper soils (i.e., those more than 8 ft bgs) within the Basins and soils from the additional areas of Basin 1A will be characterized using a similar sampling scheme prior to their use as cover soil.				

Table 2: Sample Summary by Location and Depth

Basin ID	Test Pit ID	Topsoil (ft bgs)	Cover Soil Sample Depth (ft bgs)	
		0 - 2	4	8
Basin 1A	1A-01	X	X	
	1A-02	X	X	
	1A-03		X	X
	1A-04	X	X	X
	1A-05	X	X	X
	1A-06	X	X	X
	1A-07	X	X	X
Basin 1B	1B-01	X	X	
	1B-02	X	X	
	1B-03	X	X	
	1B-04		X	X
	1B-05		X	X
	1B-06	X	X	X
Basin 2A	2A-01	X	X	
	2A-02	X	X	
	2A-03		X	X
	2A-04		X	X
	2A-05	X	X	X
	2A-06		X	X
	2A-07	X	X	X
	2A-08		X	X
	2A-09		X	X
Basin 2B	2B-01	X	X	
	2B-02	X	X	
	2B-03	X	X	X
	2B-04	X	X	X
	2B-05		X	X
	2B-06	X	X	X
	2B-07		X	X
Basin 3	3-01	X	X	
	3-02	X	X	
	3-03		X	X
Basin 4	4-01	X	X	
	4-02	X	X	
	4-03	X	X	X
	4-04		X	X

Notes: 1. "X" indicates where a sample was collected. Samples were not collected from all locations and depths where not required to meet minimum sampling frequency.

FIGURES



LEGEND

- PROPERTY LINE
- INTERPRETED LIMIT OF WASTE
- EXISTING MAJOR CONTOUR (5 FT)
- EXISTING MINOR CONTOUR (1 FT)
- SPOT ELEVATION
- GRAVEL DRIVE / ROAD
- ASPHALT
- CONCRETE PAD
- EQUIPMENT / STOCKPILE
- LIGHT POLE
- BOLLARD
- OVERHEAD POWER
- UTILITY POLE
- TREELINE
- WETLAND
- POND
- MONITORING WELL
- GROUNDWATER CONTOUR
- TREE
- RETAINING WALL
- FENCE
- SIGN
- PUBLIC RECYCLING AREA
- PROPOSED SPOT GRADE ELEVATION

Mobilization 1: Mini-Excavator - Jan 2025

4' Hole:
1 Topsoil Sample
1 Cover Soil Sample

8' Hole:
1 Topsoil Sample
2 Cover Soil Samples

Indicates Topsoil sample location

NOTES:

1. SECURITY BOOTH AND SURROUNDING ASPHALT PAVEMENTS WILL REMAIN DURING CLOSURE CONSTRUCTION AND POST-CLOSURE OPERATION. FINAL COVER SYSTEM WILL BE MATCHED TO THE EXISTING ELEVATIONS AT THE EDGE OF THE ASPHALT PAVEMENT.

FOR REVIEW PURPOSES ONLY
DESIGN DRAWINGS - NOT FOR CONSTRUCTION

(1in) (2in) (3in) (4in)
SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

C:\ GEO-ACC-ACCDOCS\GEOSYNTEC\NEXTGRID_MANCHESTER TWP LF\PROJECT FILES\CAD\03_LFILL_REDESIGN (JR0312.08)\DWGS\SHEETS\JR0312 04 - C05.DWG
Last Edited by: MM Monday, at 11:52A

DRN	APP	DESCRIPTION	DATE	REV

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

THOMAS E. RAMSEY
NJ PE #GE49000600

DATE

DESIGN BY:	MN
DRAWN BY:	MAF
CHECKED BY:	TBR
REVIEWED BY:	MN
APPROVED BY:	TBR

Geosyntec consultants
1750 AMERICAN BLVD SUITE 200
PENNINGTON, NEW JERSEY 08534 USA

TITLE: PROPOSED SUBGRADE GRADING PLAN

PROJECT: LANDFILL CLOSURE DESIGN

SITE: MANCHESTER TOWNSHIP LANDFILL
BAYVILLE, NEW JERSEY

DATE: NOVEMBER 2024
PROJECT NO.: JR0312.04
FILE: JR0312.04 - C05
DRAWING NO.: 5 OF 13

ATTACHMENTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Nolden
Geosyntec Consultants Inc
289 Great Road (Rte 2A)
Suite 202
Acton, Massachusetts 01720

Generated 4/1/2025 11:15:51 AM

JOB DESCRIPTION

Manchester Landfill

JOB NUMBER

460-319135-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Qualifiers (Continued)

General Chemistry (Continued)

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
460-319135-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/21/2025 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.2°C.

Receipt Exceptions
The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 2 TB vials. Per laboratory policy the Trip Blank sample date/time was added to reflect the latest sample date/time of the sampling event.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Received 14 containers for sample #8 (FB) not 16 as recorded on the COC.

The following samples were activated for remaining total analysis for Metals, PCBs and out of analytical holding time for Volatiles, Semivolatiles, Pesticides, Cyanide, NJEPH and Mercury by the client on 2/28/25: IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10) and IA-07-CS-8 (460-319135-11).

March 21st, 2025 - Remaining samples on hold cancelled by the client.

Method 8260D - Volatile Organic Compounds by GC/MS
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), FB_20250121 (460-319135-8), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS), IA-06-CS-8 (460-319135-15MSD) and Trip Blank (460-319135-16) were analyzed for Volatile Organic Compounds by GC/MS. The samples were prepared on 1/22/2025 and analyzed on 1/23/2025, 1/27/2025 and 3/5/2025.

The continuing calibration verification (CCV) associated with batch 460-1017719 recovered above the upper control limit for Acrolein, Acrylonitrile, Chloromethane and Methyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1017719 recovered outside control limits for the following analytes: Acrolein and Methyl acetate. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1018176 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-1018066 was outside the method criteria for the following analytes: 1,1,1-Trichloroethane, Carbon tetrachloride and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1018066 recovered outside control limits for the following analytes: 2-Hexanone and 4-Methyl-2-pentanone (MIBK). These analytes were

biased low in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1018176 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and trans-1,3-Dichloropropene. These analytes were biased low in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1024023 was outside the method criteria for the following analyte(s): Bromomethane (biased high); Bromoform and Dichlorodifluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1024023 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane (biased low) and Bromomethane (biased high). These analytes were not detected in the associated samples; therefore, the data have been reported.

Method 8270E - Semivolatile Organic Compounds (GC/MS)
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), FB_20250121 (460-319135-8), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS) and IA-06-CS-8 (460-319135-15MSD) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared on 1/23/2025 and 3/4/2025 and analyzed on 1/23/2025, 1/24/2025 and 3/4/2025.

The laboratory control sample (LCS) for preparation batch 460-1017771 and analytical batch 460-1017857 recovered outside control limits for the following analytes: Atrazine, Benzaldehyde and Hexachlorocyclopentadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-1017771 and analytical batch 460-1017857 recovered outside control limits for the following analytes: Atrazine, Benzaldehyde and Benzidine.

The continuing calibration verification (CCV) analyzed in batch 460-1017857 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-1017845 was outside the method criteria for the following analyte(s): 4,6-Dinitro-2-methylphenol and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample duplicate (LCSD) for batch preparation batch 460-1017758 and analytical batch 460-1017845 recovered outside control limits for the following analytes: 2-Methylnaphthalene. The laboratory control sample (LCS) recovery was within control limits. The associated sample data has been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1023993 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-1023975 and analytical batch 460-1023993 recovered outside control limits for the following analytes: Atrazine and Hexachlorocyclopentadiene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14) and IA-06-CS-8 (460-319135-15) were analyzed for New Jersey - Extractable Petroleum Hydrocarbons. The samples were analyzed on 1/24/2025

Job ID: 460-319135-1 (Continued)

and 3/6/2025.

Method NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), FB_20250121 (460-319135-8), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS) and IA-06-CS-8 (460-319135-15MSD) were analyzed for New Jersey Extractable Petroleum Hydrocarbons. The samples were prepared on 1/23/2025, 1/24/2025 and 3/5/2025 and analyzed on 1/24/2025, 1/25/2025 and 3/6/2025.

Method 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), FB_20250121 (460-319135-8), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS) and IA-06-CS-8 (460-319135-15MSD) were analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography. The samples were prepared on 1/23/2025, 1/25/2025 and 3/5/2025 and analyzed on 1/24/2025, 1/27/2025, 3/5/2025 and 3/6/2025.

The following samples required a copper clean-up, via EPA Method 3660B, to reduce matrix interferences: (460-319158-H-2-C), (460-319158-H-2-A MS) and (460-319158-H-2-B MSD).

The DCB Decachlorobiphenyl surrogate recovery for the CCV was outside acceptance limits (high biased) on the primary column : The recovery is within acceptance limits on the other column, therefore the data have been reported.IA-05-TS (460-319135-5).

Method 8081B - Organochlorine Pesticides (GC)
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), FB_20250121 (460-319135-8), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS) and IA-06-CS-8 (460-319135-15MSD) were analyzed for Organochlorine Pesticides (GC). The samples were prepared on 1/23/2025, 1/25/2025 and 3/5/2025 and analyzed on 1/24/2025, 1/27/2025 and 3/5/2025.

The following samples required a copper clean-up, via EPA Method 3660B, to reduce matrix interferences: (460-319158-H-2-D), (460-319158-K-2-A MS) and (460-319158-K-2-B MSD).

The continuing calibration verification (CCV) associated with batch 460-1018163 recovered below the lower control limit for Methoxychlor on the primary column. Methoxychlor was within control limits on the secondary column therefore the data have been qualified and reported from the secondary column. (CCVIS 460-1018163/3).

The continuing calibration verification (CCV) associated with batch 460-1024330 recovered above the upper control limit for Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1024330/3).

The continuing calibration verification (CCV) associated with batch 460-1024271 recovered above the upper control limit for Endrin ketone and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1024271/3).

The following samples were prepared outside of preparation holding time due to sample receipt : IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), (460-319165-C-15-M), (460-319165-B-15-G MS) and (460-319165-C-15-L MSD).

Method 6020B - Metals (ICP/MS)
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), FB_20250121 (460-319135-8), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS) and IA-06-CS-8 (460-319135-15MSD) were analyzed for Metals (ICP/MS). The samples were prepared and analyzed on 1/24/2025 and 3/5/2025.

The field blank FB_20250121 (460-319135-8) contained calcium above the method detection limit (MDL). The result was confirmed by the analysis of the undigested sample.

Job ID: 460-319135-1 (Continued)

Method 7470A - Mercury (CVAA)
Sample FB_20250121 (460-319135-8) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 1/23/2025.

Method 7471B - Mercury (CVAA)
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS) and IA-06-CS-8 (460-319135-15MSD) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 1/24/2025, 1/27/2025 and 3/5/2025.

Method 9012B - Cyanide, Total andor Amenable
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), FB_20250121 (460-319135-8), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS) and IA-06-CS-8 (460-319135-15MSD) were analyzed for Cyanide, Total andor Amenable. The samples were prepared and analyzed on 1/24/2025 and 3/6/2025.

Method Moisture - Percent Moisture
Samples IA-03-CS-4 (460-319135-1), IA-03-CS-8 (460-319135-2), IA-02-TS (460-319135-3), IA-02-CS (460-319135-4), IA-05-TS (460-319135-5), IA-05-CS-4 (460-319135-6), IA-05-CS-8 (460-319135-7), IA-07-TS (460-319135-9), IA-07-CS-4 (460-319135-10), IA-07-CS-8 (460-319135-11), IA-06-TS (460-319135-12), DUP-01 (460-319135-13), IA-06-CS-4 (460-319135-14), IA-06-CS-8 (460-319135-15), IA-06-CS-8 (460-319135-15MS) and IA-06-CS-8 (460-319135-15MSD) were analyzed for Percent Moisture. The samples were analyzed on 1/22/2025.

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-03-CS-4 — Lab Sample ID: 460-319135-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.014	J H	0.34	0.0095	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.021	J H	0.34	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.016	J H	0.34	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	5000		19.0	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.65	J	0.95	0.098	mg/Kg	1	☼	6020B	Total/NA
Barium	4.8		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	123		94.9	38.6	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.3		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.26	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	2.8		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	2030		56.9	19.2	mg/Kg	1	☼	6020B	Total/NA
Lead	1.8		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	71.1	J	94.9	9.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.8	J	3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.8	J	1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	130		94.9	15.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	4.8		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IA-03-CS-8 — Lab Sample ID: 460-319135-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	9430		20.6	5.7	mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.7		1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	7.1		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.10	J	0.41	0.059	mg/Kg	1	☼	6020B	Total/NA
Calcium	76.7	J	103	42.0	mg/Kg	1	☼	6020B	Total/NA
Chromium	13.8		2.1	0.94	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.44	J	2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	5.3		2.1	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	10200		61.9	20.8	mg/Kg	1	☼	6020B	Total/NA
Lead	2.9		0.62	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	103		103	10.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	5.1		4.1	0.42	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.8	J	2.1	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	284		103	16.7	mg/Kg	1	☼	6020B	Total/NA
Vanadium	23.6		2.1	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	5.4	J	8.3	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0090	J H	0.019	0.0088	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-02-TS — Lab Sample ID: 460-319135-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	2060		20.5	5.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.86	J	1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	7.7		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Calcium	1000		102	41.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.0		2.0	0.93	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.33	J	2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	4.2		2.0	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	2650		61.5	20.7	mg/Kg	1	☼	6020B	Total/NA
Lead	5.9		0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	131		102	10.4	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-02-TS (Continued) — Lab Sample ID: 460-319135-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	14.5		4.1	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.1	J	2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	71.7	J	102	16.6	mg/Kg	1	☼	6020B	Total/NA
Sodium	788		102	46.8	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.6		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	11.0		8.2	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.035		0.016	0.0075	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-02-CS — Lab Sample ID: 460-319135-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.067		0.0059	0.0056	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.033		0.033	0.025	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.044		0.033	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.073		0.033	0.0087	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.047	J	0.33	0.0099	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.024	J	0.033	0.0066	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.019	J	0.33	0.018	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.048	J	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.049	J	0.33	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.040		0.033	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.014	J	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.042	J	0.33	0.0083	mg/Kg	1	☼	8270E	Total/NA
Aluminum	6580		18.2	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.99		0.91	0.094	mg/Kg	1	☼	6020B	Total/NA
Barium	4.8		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.061	J	0.36	0.052	mg/Kg	1	☼	6020B	Total/NA
Calcium	134		90.9	37.0	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.0		1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.29	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	3.2		1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	3450		54.5	18.4	mg/Kg	1	☼	6020B	Total/NA
Lead	2.4		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	81.9	J	90.9	9.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	5.1		3.6	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	2.3		1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	92.8		90.9	14.7	mg/Kg	1	☼	6020B	Total/NA
Sodium	50.8	J	90.9	41.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.3		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.028		0.017	0.0080	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-05-TS — Lab Sample ID: 460-319135-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010		0.0052	0.0049	mg/Kg	1	☼	8260D	Total/NA
Aluminum	3850		18.5	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.0		0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	5.1		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	413		92.4	37.6	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.8		1.8	0.84	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.34	J	1.8	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	3.6		1.8	0.34	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-05-TS (Continued) — Lab Sample ID: 460-319135-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3460		55.4	18.7	mg/Kg	1	☼	6020B	Total/NA
Lead	7.0		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	131		92.4	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	8.8		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.3	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	143		92.4	15.0	mg/Kg	1	☼	6020B	Total/NA
Sodium	79.9	J	92.4	42.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.0		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	7.0	J	7.4	2.8	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.024		0.015	0.0069	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-05-CS-4 — Lab Sample ID: 460-319135-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.019	J	0.034	0.0090	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.030	J	0.034	0.0087	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.020	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.011	J	0.034	0.0066	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.019	J	0.34	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.022	J	0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.015	J	0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.019	J	0.34	0.0084	mg/Kg	1	☼	8270E	Total/NA
Aluminum	5090		18.3	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.88	J	0.92	0.094	mg/Kg	1	☼	6020B	Total/NA
Barium	4.4		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.052	J	0.37	0.052	mg/Kg	1	☼	6020B	Total/NA
Calcium	188		91.7	37.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.8		1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.29	J	1.8	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	3.5		1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	3000		55.0	18.5	mg/Kg	1	☼	6020B	Total/NA
Lead	2.9		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	80.3	J	91.7	9.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	5.1		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.5	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	115		91.7	14.8	mg/Kg	1	☼	6020B	Total/NA
Sodium	50.9	J	91.7	41.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.0		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	2.8	J	7.3	2.8	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.022		0.017	0.0079	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-05-CS-8 — Lab Sample ID: 460-319135-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.071		0.0059	0.0056	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1420		18.7	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.17	J	0.93	0.096	mg/Kg	1	☼	6020B	Total/NA
Barium	2.8		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.9		1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Copper	0.71	J	1.9	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	506		56.0	18.9	mg/Kg	1	☼	6020B	Total/NA
Lead	1.3		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-05-CS-8 (Continued)

Lab Sample ID: 460-319135-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	25.0	J	93.3	9.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.2	J	3.7	0.38	mg/Kg	1	☼	6020B	Total/NA
Potassium	130		93.3	15.1	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.1		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0088	J	0.015	0.0071	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: FB_20250121

Lab Sample ID: 460-319135-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.32	J	1.0	0.32	ug/L	1		8260D	Total/NA
Calcium	57.9	J	500	53.6	ug/L	1		6020B	Total/NA
Cyanide, Total	0.0058	J	0.010	0.0040	mg/L	1		9012B	Total/NA

Client Sample ID: IA-07-TS

Lab Sample ID: 460-319135-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzaldehyde	0.066	J H	0.39	0.065	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.033	J H	0.039	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.061	H	0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.036	J H	0.39	0.012	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.022	J H	0.039	0.0077	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.026	J H	0.39	0.017	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.031	J H	0.39	0.014	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.028	J H	0.039	0.015	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.026	J H	0.39	0.0098	mg/Kg	1	☼	8270E	Total/NA
Total Aromatics	22		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total Aliphatics	12		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	35		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C21-C40 Aliphatics	12	H	8.4	8.4	mg/Kg	1	☼	NJDEP EPH	Total/NA
C10-C12 Aromatics	2.9	H	2.4	2.4	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	20	H	9.6	9.6	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	4240		21.8	6.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.0	J	1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	10.2		2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Calcium	2660		109	44.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	7.3		2.2	0.99	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.63	J	2.2	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	8.7		2.2	0.40	mg/Kg	1	☼	6020B	Total/NA
Iron	3100		65.3	22.0	mg/Kg	1	☼	6020B	Total/NA
Lead	7.9		0.65	0.22	mg/Kg	1	☼	6020B	Total/NA
Magnesium	350		109	11.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	21.2		4.4	0.44	mg/Kg	1	☼	6020B	Total/NA
Nickel	2.5		2.2	0.51	mg/Kg	1	☼	6020B	Total/NA
Potassium	270		109	17.6	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.5		2.2	0.22	mg/Kg	1	☼	6020B	Total/NA
Zinc	20.3		8.7	3.3	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.022	H	0.019	0.0091	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.15	J H	0.26	0.14	mg/Kg	1	☼	9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-07-CS-4 — Lab Sample ID: 460-319135-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.0093	J H	0.34	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1310		18.1	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.15	J	0.91	0.093	mg/Kg	1	☼	6020B	Total/NA
Barium	1.7	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	168		90.7	36.9	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.3		1.8	0.82	mg/Kg	1	☼	6020B	Total/NA
Copper	1.4	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	355		54.4	18.3	mg/Kg	1	☼	6020B	Total/NA
Lead	1.7		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	33.7	J	90.7	9.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.5	J	3.6	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.77	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	59.6	J	90.7	14.7	mg/Kg	1	☼	6020B	Total/NA
Vanadium	1.4	J	1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IA-07-CS-8 — Lab Sample ID: 460-319135-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4690		21.0	5.8	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.76	J	1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	3.8		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Calcium	105		105	42.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.9		2.1	0.95	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.27	J	2.1	0.16	mg/Kg	1	☼	6020B	Total/NA
Copper	3.2		2.1	0.39	mg/Kg	1	☼	6020B	Total/NA
Iron	2400		63.0	21.2	mg/Kg	1	☼	6020B	Total/NA
Lead	2.3		0.63	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	73.8	J	105	10.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.6	J	4.2	0.42	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.3	J	2.1	0.49	mg/Kg	1	☼	6020B	Total/NA
Potassium	155		105	17.0	mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.4		2.1	0.22	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.024	H	0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-06-TS — Lab Sample ID: 460-319135-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	2700		18.1	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.74	J	0.91	0.093	mg/Kg	1	☼	6020B	Total/NA
Barium	4.7		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	518		90.6	36.9	mg/Kg	1	☼	6020B	Total/NA
Chromium	4.5		1.8	0.82	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.25	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	2.7		1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	2460		54.3	18.3	mg/Kg	1	☼	6020B	Total/NA
Lead	11.5		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	141		90.6	9.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	7.7		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.1	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	109		90.6	14.7	mg/Kg	1	☼	6020B	Total/NA
Sodium	85.1	J	90.6	41.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.3		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample ID: IA-06-TS (Continued) — Lab Sample ID: 460-319135-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	6.9	J	7.2	2.8	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.021		0.015	0.0072	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 460-319135-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.061		0.033	0.025	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.068		0.033	0.0088	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.099		0.033	0.0086	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.049	J	0.33	0.0098	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.042		0.033	0.0065	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.091	J	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.17	J	0.33	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.048		0.033	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.13	J	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.14	J	0.33	0.0083	mg/Kg	1	☼	8270E	Total/NA
Aluminum	2730		18.5	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.85	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	6.4		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	837		92.3	37.5	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.0		1.8	0.84	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.29	J	1.8	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	3.5		1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	2760		55.4	18.6	mg/Kg	1	☼	6020B	Total/NA
Lead	16.3		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	158		92.3	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	10.6		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.3	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	111		92.3	14.9	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.12	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Sodium	111		92.3	42.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.9		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	12.2		7.4	2.8	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.027		0.015	0.0071	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-06-CS-4 — Lab Sample ID: 460-319135-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0082		0.0055	0.0052	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]anthracene	0.043		0.033	0.025	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.066		0.033	0.0088	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.095		0.033	0.0086	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.060	J	0.33	0.0098	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.041		0.033	0.0065	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.069	J	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.033	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.069	J	0.33	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.057		0.033	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.020	J	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.065	J	0.33	0.0083	mg/Kg	1	☼	8270E	Total/NA
Aluminum	4670		18.3	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.82	J	0.91	0.094	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-06-CS-4 (Continued) — Lab Sample ID: 460-319135-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	3.5		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	137		91.5	37.2	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.3		1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.23	J	1.8	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	3.2		1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	2760		54.9	18.5	mg/Kg	1	☼	6020B	Total/NA
Lead	1.7		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	66.7	J	91.5	9.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.3	J	3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.3	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	117		91.5	14.8	mg/Kg	1	☼	6020B	Total/NA
Sodium	55.2	J	91.5	41.8	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.6		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.034		0.014	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-06-CS-8 — Lab Sample ID: 460-319135-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.088		0.0067	0.0064	mg/Kg	1	☼	8260D	Total/NA
Aluminum	9320		20.3	5.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.7		1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	4.5	F1	2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.091	J	0.41	0.058	mg/Kg	1	☼	6020B	Total/NA
Calcium	114		102	41.4	mg/Kg	1	☼	6020B	Total/NA
Chromium	8.6		2.0	0.92	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.46	J	2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	5.8		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	5380		61.0	20.5	mg/Kg	1	☼	6020B	Total/NA
Lead	2.3		0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	120		102	10.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.5		4.1	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	2.2		2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	181		102	16.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	12.2		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.019		0.017	0.0079	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 460-319135-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-03-CS-4
Date Collected: 01/21/25 09:15
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-1
Matrix: Solid
Percent Solids: 96.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,1,2-Trichloroethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,1-Dichloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,1-Dichloroethene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,2,3-Trichlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,2,4-Trichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,2-Dibromo-3-Chloropropane	0.00050	U H *-	0.0011	0.00050	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,2-Dibromoethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,2-Dichlorobenzene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,2-Dichloroethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,2-Dichloropropane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,3-Dichlorobenzene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
1,4-Dichlorobenzene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
2-Butanone (MEK)	0.00040	U H	0.0055	0.00040	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
2-Hexanone	0.0019	U H	0.0055	0.0019	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
4-Methyl-2-pentanone (MIBK)	0.0017	U H	0.0055	0.0017	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Acetone	0.0063	U H	0.0066	0.0063	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Benzene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Bromodichloromethane	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Bromoform	0.00047	U H	0.0011	0.00047	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Bromomethane	0.0011	U H *+	0.0022	0.0011	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Carbon disulfide	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Carbon tetrachloride	0.00042	U H	0.0011	0.00042	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Chlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Chlorobromomethane	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Chloroethane	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Chloroform	0.0011	U H	0.0011	0.0011	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Chloromethane	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
cis-1,2-Dichloroethene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
cis-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Cyclohexane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Dibromochloromethane	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Dichlorodifluoromethane	0.00037	U H	0.0011	0.00037	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Ethylbenzene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Isopropylbenzene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Methyl acetate	0.0047	U H	0.0055	0.0047	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Methyl tert-butyl ether	0.00056	U H	0.0011	0.00056	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Methylcyclohexane	0.00055	U H	0.0011	0.00055	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Methylene Chloride	0.0013	U H	0.0022	0.0013	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
m-Xylene & p-Xylene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
o-Xylene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Styrene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Tetrachloroethene	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Toluene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
trans-1,2-Dichloroethene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
trans-1,3-Dichloropropene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Trichloroethene	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1

Client Sample ID: IA-03-CS-4
Date Collected: 01/21/25 09:15
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-1
Matrix: Solid
Percent Solids: 96.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1
Vinyl chloride	0.00060	U H	0.0011	0.00060	mg/Kg	☼	01/22/25 14:00	03/05/25 00:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/22/25 14:00*	*03/05/25 00:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*	*01/22/25 14:00*	*03/05/25 00:10*	*1*
4-Bromofluorobenzene	*101*		*71 - 128*	*01/22/25 14:00*	*03/05/25 00:10*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 150*	*01/22/25 14:00*	*03/05/25 00:10*	*1*
Toluene-d8 (Surr)	*114*		*71 - 126*	*01/22/25 14:00*	*03/05/25 00:10*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
1,2,4-Trichlorobenzene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
1,2-Dichlorobenzene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2,4,5-Trichlorophenol	0.035	U H	0.34	0.035	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2,4,6-Trichlorophenol	0.044	U H	0.14	0.044	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2,4-Dimethylphenol	0.041	U H	0.34	0.041	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2,4-Dinitrophenol	0.17	U H	0.27	0.17	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2,4-Dinitrotoluene	0.037	U H	0.069	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2,6-Dinitrotoluene	0.025	U H	0.069	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2-Methylnaphthalene	**0.014**	**J H**	0.34	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
3,3'-Dichlorobenzidine	0.051	U H	0.14	0.051	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
3-Nitroaniline	0.081	U H	0.34	0.081	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
4-Bromophenyl phenyl ether	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
4-Chloroaniline	0.060	U H	0.34	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
4-Nitrophenol	0.056	U H	0.69	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Acenaphthene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Acenaphthylene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Atrazine	0.020	U H *+	0.14	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Benzaldehyde	0.056	U H	0.34	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Benzidine	0.072	U H	0.34	0.072	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-03-CS-4
Date Collected: 01/21/25 09:15
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-1
Matrix: Solid
Percent Solids: 96.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.026	U H	0.034	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Benzo[a]pyrene	0.0091	U H	0.034	0.0091	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Benzo[b]fluoranthene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Benzo[g,h,i]perylene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Benzo[k]fluoranthene	0.0067	U H	0.034	0.0067	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
bis (2-chloroisopropyl) ether	0.020	U H	0.34	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Bis(2-chloroethoxy)methane	0.027	U H	0.34	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Caprolactam	0.053	U H	0.34	0.053	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Dimethyl phthalate	0.077	U H	0.34	0.077	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Fluorene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Hexachlorobutadiene	0.0073	U H	0.069	0.0073	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Isophorone	0.099	U H	0.14	0.099	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Naphthalene	0.0059	U H	0.34	0.0059	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
N-Nitrosodimethylamine	0.032	U H	0.34	0.032	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
N-Nitrosodi-n-propylamine	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Pentachlorophenol	0.070	U H	0.27	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Phenanthrene	**0.021**	**J H**	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Phenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1
Pyrene	**0.016**	**J H**	0.34	0.0085	mg/Kg	☼	03/04/25 08:39	03/04/25 16:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 16:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*24 - 137*	*03/04/25 08:39*	*03/04/25 16:45*	*1*
2-Fluorobiphenyl	*86*		*38 - 128*	*03/04/25 08:39*	*03/04/25 16:45*	*1*
2-Fluorophenol (Surr)	*89*		*31 - 133*	*03/04/25 08:39*	*03/04/25 16:45*	*1*
Nitrobenzene-d5 (Surr)	*91*		*31 - 120*	*03/04/25 08:39*	*03/04/25 16:45*	*1*
Phenol-d5 (Surr)	*82*		*35 - 132*	*03/04/25 08:39*	*03/04/25 16:45*	*1*
Terphenyl-d14 (Surr)	*90*		*44 - 147*	*03/04/25 08:39*	*03/04/25 16:45*	*1*

Client Sample ID: IA-03-CS-4

Date Collected: 01/21/25 09:15
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-1

Matrix: Solid
Percent Solids: 96.7

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0069	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
4,4'-DDE	0.00082	U H	0.0069	0.00082	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
4,4'-DDT	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Aldrin	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
alpha-BHC	0.00070	U H	0.0021	0.00070	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
beta-BHC	0.00077	U H	0.0021	0.00077	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
delta-BHC	0.00042	U H	0.0021	0.00042	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Dieldrin	0.00090	U H	0.0021	0.00090	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Endosulfan I	0.0011	U H	0.0069	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Endosulfan II	0.0018	U H	0.0069	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Endosulfan sulfate	0.00087	U H	0.0069	0.00087	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Endrin	0.00099	U H	0.0069	0.00099	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Endrin aldehyde	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Endrin ketone	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
gamma-BHC (Lindane)	0.00064	U H	0.0021	0.00064	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Heptachlor	0.00082	U H	0.0069	0.00082	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Heptachlor epoxide	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Methoxychlor	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Toxaphene	0.025	U H	0.069	0.025	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1
Chlordane (n.o.s.)	0.017	U H	0.069	0.017	mg/Kg	☼	03/05/25 10:29	03/05/25 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*17 - 150*	*03/05/25 10:29*	*03/05/25 23:09*	*1*
DCB Decachlorobiphenyl	*74*		*17 - 150*	*03/05/25 10:29*	*03/05/25 23:09*	*1*
Tetrachloro-m-xylene	*100*		*21 - 150*	*03/05/25 10:29*	*03/05/25 23:09*	*1*
Tetrachloro-m-xylene	*99*		*21 - 150*	*03/05/25 10:29*	*03/05/25 23:09*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Aroclor 1221	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Aroclor 1232	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Aroclor 1242	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Aroclor 1248	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Aroclor 1254	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Aroclor 1260	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Aroclor-1262	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Aroclor 1268	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1
Polychlorinated biphenyls, Total	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:38*	*1*
DCB Decachlorobiphenyl	*87*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:38*	*1*
Tetrachloro-m-xylene	*119*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:38*	*1*
Tetrachloro-m-xylene	*114*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:38*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Client Sample ID: IA-03-CS-4
Date Collected: 01/21/25 09:15
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-1
Matrix: Solid
Percent Solids: 96.7

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/06/25 00:17	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/06/25 00:17	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/06/25 00:17	1
C21-C40 Aliphatics	7.2	U H	7.2	7.2	mg/Kg	☼	03/05/25 10:24	03/06/25 00:17	1
C16-C21 Aromatics	5.2	U H	5.2	5.2	mg/Kg	☼	03/05/25 10:24	03/06/25 00:17	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/06/25 00:17	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/06/25 00:17	1
C21-C36 Aromatic	8.3	U H	8.3	8.3	mg/Kg	☼	03/05/25 10:24	03/06/25 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:17*	*1*
2-Fluorobiphenyl	*87*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:17*	*1*
2-Bromonaphthalene	*75*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:17*	*1*
1-Chlorooctadecane	*73*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:17*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5000**		19.0	5.2	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Antimony	0.14	U	0.95	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Arsenic	**0.65**	**J**	0.95	0.098	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Barium	**4.8**		1.9	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Cadmium	0.11	U	0.95	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Calcium	**123**		94.9	38.6	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Chromium	**6.3**		1.9	0.86	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Cobalt	**0.26**	**J**	1.9	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Copper	**2.8**		1.9	0.35	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Iron	**2030**		56.9	19.2	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Lead	**1.8**		0.57	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Magnesium	**71.1**	**J**	94.9	9.7	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Manganese	**2.8**	**J**	3.8	0.38	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Nickel	**1.8**	**J**	1.9	0.45	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Potassium	**130**		94.9	15.4	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Silver	0.084	U	0.38	0.084	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Sodium	43.4	U	94.9	43.4	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Vanadium	**4.8**		1.9	0.20	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1
Zinc	2.9	U	7.6	2.9	mg/Kg	☼	03/05/25 07:28	03/05/25 17:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	U H	0.016	0.0076	mg/Kg	☼	03/05/25 01:20	03/05/25 06:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/06/25 10:06	03/06/25 13:31	1

Client Sample ID: IA-03-CS-4

Date Collected: 01/21/25 09:15
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-1

Matrix: Solid
Percent Solids: 96.7

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	96.7		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: IA-03-CS-8

Date Collected: 01/21/25 09:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-2

Matrix: Solid
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U H	0.0010	0.00024	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,1,2,2-Tetrachloroethane	0.00022	U H	0.0010	0.00022	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U H	0.0010	0.00031	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,1,2-Trichloroethane	0.00018	U H	0.0010	0.00018	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,1-Dichloroethane	0.00021	U H	0.0010	0.00021	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,1-Dichloroethene	0.00023	U H	0.0010	0.00023	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,2,3-Trichlorobenzene	0.00019	U H	0.0010	0.00019	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,2,4-Trichlorobenzene	0.00037	U H	0.0010	0.00037	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,2-Dibromo-3-Chloropropane	0.00047	U H *-	0.0010	0.00047	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,2-Dibromoethane	0.00018	U H	0.0010	0.00018	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,2-Dichlorobenzene	0.00037	U H	0.0010	0.00037	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,2-Dichloroethane	0.00030	U H	0.0010	0.00030	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,2-Dichloropropane	0.00043	U H	0.0010	0.00043	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,3-Dichlorobenzene	0.00037	U H	0.0010	0.00037	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
1,4-Dichlorobenzene	0.00023	U H	0.0010	0.00023	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
2-Butanone (MEK)	0.00038	U H	0.0051	0.00038	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
2-Hexanone	0.0018	U H	0.0051	0.0018	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
4-Methyl-2-pentanone (MIBK)	0.0016	U H	0.0051	0.0016	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Acetone	0.0059	U H	0.0061	0.0059	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Benzene	0.00026	U H	0.0010	0.00026	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Bromodichloromethane	0.00026	U H	0.0010	0.00026	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Bromoform	0.00044	U H	0.0010	0.00044	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Bromomethane	0.0010	U H *+	0.0020	0.0010	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Carbon disulfide	0.00027	U H	0.0010	0.00027	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Carbon tetrachloride	0.00040	U H	0.0010	0.00040	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Chlorobenzene	0.00018	U H	0.0010	0.00018	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Chlorobromomethane	0.00029	U H	0.0010	0.00029	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Chloroethane	0.00053	U H	0.0010	0.00053	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Chloroform	0.00099	U H	0.0010	0.00099	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Chloromethane	0.00045	U H	0.0010	0.00045	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
cis-1,2-Dichloroethene	0.00037	U H	0.0010	0.00037	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
cis-1,3-Dichloropropene	0.00028	U H	0.0010	0.00028	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Cyclohexane	0.00023	U H	0.0010	0.00023	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Dibromochloromethane	0.00020	U H	0.0010	0.00020	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Dichlorodifluoromethane	0.00035	U H	0.0010	0.00035	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Ethylbenzene	0.00020	U H	0.0010	0.00020	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Isopropylbenzene	0.00029	U H	0.0010	0.00029	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Methyl acetate	0.0044	U H	0.0051	0.0044	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Methyl tert-butyl ether	0.00052	U H	0.0010	0.00052	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Methylcyclohexane	0.00051	U H	0.0010	0.00051	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Methylene Chloride	0.0012	U H	0.0020	0.0012	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1

Client Sample ID: IA-03-CS-8
Date Collected: 01/21/25 09:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-2
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00018	U H	0.0010	0.00018	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
o-Xylene	0.00020	U H	0.0010	0.00020	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Styrene	0.00028	U H	0.0010	0.00028	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Tetrachloroethene	0.00031	U H	0.0010	0.00031	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Toluene	0.00024	U H	0.0010	0.00024	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
trans-1,2-Dichloroethene	0.00025	U H	0.0010	0.00025	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
trans-1,3-Dichloropropene	0.00027	U H	0.0010	0.00027	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Trichloroethene	0.00033	U H	0.0010	0.00033	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Trichlorofluoromethane	0.00042	U H	0.0010	0.00042	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1
Vinyl chloride	0.00056	U H	0.0010	0.00056	mg/Kg	☼	01/22/25 14:01	03/05/25 00:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/22/25 14:01*	*03/05/25 00:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/22/25 14:01*	*03/05/25 00:33*	*1*
4-Bromofluorobenzene	*105*		*71 - 128*	*01/22/25 14:01*	*03/05/25 00:33*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*	*01/22/25 14:01*	*03/05/25 00:33*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*	*01/22/25 14:01*	*03/05/25 00:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.013	U H	0.39	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
1,2,4-Trichlorobenzene	0.010	U H	0.039	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
1,2-Dichlorobenzene	0.0066	U H	0.39	0.0066	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
1,2-Diphenylhydrazine	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
1,3-Dichlorobenzene	0.012	U H	0.39	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
1,4-Dichlorobenzene	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2,4,5-Trichlorophenol	0.039	U H	0.39	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2,4,6-Trichlorophenol	0.050	U H	0.16	0.050	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2,4-Dichlorophenol	0.025	U H	0.16	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2,4-Dimethylphenol	0.046	U H	0.39	0.046	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2,4-Dinitrophenol	0.19	U H	0.31	0.19	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2,4-Dinitrotoluene	0.042	U H	0.078	0.042	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2,6-Dinitrotoluene	0.028	U H	0.078	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2-Chloronaphthalene	0.018	U H	0.39	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2-Chlorophenol	0.014	U H	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2-Methylnaphthalene	0.011	U H	0.39	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2-Methylphenol	0.014	U H	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2-Nitroaniline	0.030	U H	0.39	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
2-Nitrophenol	0.039	U H	0.39	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
3,3'-Dichlorobenzidine	0.059	U H	0.16	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
3-Nitroaniline	0.092	U H	0.39	0.092	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
4,6-Dinitro-2-methylphenol	0.16	U H	0.31	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
4-Bromophenyl phenyl ether	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
4-Chloro-3-methylphenol	0.022	U H	0.39	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
4-Chloroaniline	0.069	U H	0.39	0.069	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
4-Chlorophenyl phenyl ether	0.014	U H	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
4-Methylphenol	0.024	U H	0.39	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
4-Nitroaniline	0.044	U H	0.39	0.044	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1

Client Sample ID: IA-03-CS-8
Date Collected: 01/21/25 09:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-2
Matrix: Solid
Percent Solids: 85.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.063	U H	0.78	0.063	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Acenaphthene	0.011	U H	0.39	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Acenaphthylene	0.011	U H	0.39	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Acetophenone	0.019	U H	0.39	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Anthracene	0.012	U H	0.39	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Atrazine	0.023	U H *+	0.16	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Benzaldehyde	0.064	U H	0.39	0.064	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Benzidine	0.081	U H	0.39	0.081	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Benzo[a]anthracene	0.029	U H	0.039	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Benzo[a]pyrene	0.010	U H	0.039	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Benzo[b]fluoranthene	0.010	U H	0.039	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Benzo[g,h,i]perylene	0.011	U H	0.39	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Benzo[k]fluoranthene	0.0076	U H	0.039	0.0076	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
bis (2-chloroisopropyl) ether	0.023	U H	0.39	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Bis(2-chloroethoxy)methane	0.030	U H	0.39	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Bis(2-chloroethyl)ether	0.013	U H	0.039	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Bis(2-ethylhexyl) phthalate	0.020	U H	0.39	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Butyl benzyl phthalate	0.018	U H	0.39	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Caprolactam	0.060	U H	0.39	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Carbazole	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Chrysene	0.016	U H	0.39	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Dibenz(a,h)anthracene	0.017	U H	0.039	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Dibenzofuran	0.013	U H	0.39	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Diethyl phthalate	0.012	U H	0.39	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Dimethyl phthalate	0.088	U H	0.39	0.088	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Di-n-butyl phthalate	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Di-n-octyl phthalate	0.021	U H	0.39	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Fluoranthene	0.014	U H	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Fluorene	0.011	U H	0.39	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Hexachlorobenzene	0.018	U H	0.039	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Hexachlorobutadiene	0.0082	U H	0.078	0.0082	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Hexachlorocyclopentadiene	0.034	U H *+	0.39	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Hexachloroethane	0.013	U H	0.039	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Indeno[1,2,3-cd]pyrene	0.015	U H	0.039	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Isophorone	0.11	U H	0.16	0.11	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Naphthalene	0.0067	U H	0.39	0.0067	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Nitrobenzene	0.021	U H	0.039	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
N-Nitrosodimethylamine	0.036	U H	0.39	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
N-Nitrosodi-n-propylamine	0.028	U H	0.039	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
N-Nitrosodiphenylamine	0.032	U H	0.39	0.032	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Pentachlorophenol	0.079	U H	0.31	0.079	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Phenanthrene	0.016	U H	0.39	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Phenol	0.014	U H	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1
Pyrene	0.0096	U H	0.39	0.0096	mg/Kg	☼	03/04/25 08:39	03/04/25 16:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 16:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*24 - 137*	*03/04/25 08:39*	*03/04/25 16:06*	*1*

Client Sample ID: IA-03-CS-8

Date Collected: 01/21/25 09:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-2

Matrix: Solid
Percent Solids: 85.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*38 - 128*	*03/04/25 08:39*	*03/04/25 16:06*	*1*
2-Fluorophenol (Surr)	*76*		*31 - 133*	*03/04/25 08:39*	*03/04/25 16:06*	*1*
Nitrobenzene-d5 (Surr)	*84*		*31 - 120*	*03/04/25 08:39*	*03/04/25 16:06*	*1*
Phenol-d5 (Surr)	*74*		*35 - 132*	*03/04/25 08:39*	*03/04/25 16:06*	*1*
Terphenyl-d14 (Surr)	*79*		*44 - 147*	*03/04/25 08:39*	*03/04/25 16:06*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0013	U H	0.0079	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
4,4'-DDE	0.00093	U H	0.0079	0.00093	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
4,4'-DDT	0.0014	U H	0.0079	0.0014	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Aldrin	0.0012	U H	0.0079	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
alpha-BHC	0.00080	U H	0.0023	0.00080	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
beta-BHC	0.00088	U H	0.0023	0.00088	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
delta-BHC	0.00048	U H	0.0023	0.00048	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Dieldrin	0.0010	U H	0.0023	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Endosulfan I	0.0012	U H	0.0079	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Endosulfan II	0.0020	U H	0.0079	0.0020	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Endosulfan sulfate	0.00099	U H	0.0079	0.00099	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Endrin	0.0011	U H	0.0079	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Endrin aldehyde	0.0019	U H	0.0079	0.0019	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Endrin ketone	0.0015	U H	0.0079	0.0015	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
gamma-BHC (Lindane)	0.00073	U H	0.0023	0.00073	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Heptachlor	0.00093	U H	0.0079	0.00093	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Heptachlor epoxide	0.0012	U H	0.0079	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Methoxychlor	0.0018	U H	0.0079	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Toxaphene	0.028	U H	0.079	0.028	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1
Chlordane (n.o.s.)	0.019	U H	0.079	0.019	mg/Kg	☼	03/05/25 10:29	03/05/25 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*17 - 150*	*03/05/25 10:29*	*03/05/25 23:22*	*1*
DCB Decachlorobiphenyl	*56*		*17 - 150*	*03/05/25 10:29*	*03/05/25 23:22*	*1*
Tetrachloro-m-xylene	*73*		*21 - 150*	*03/05/25 10:29*	*03/05/25 23:22*	*1*
Tetrachloro-m-xylene	*72*		*21 - 150*	*03/05/25 10:29*	*03/05/25 23:22*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Aroclor 1221	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Aroclor 1232	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Aroclor 1242	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Aroclor 1248	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Aroclor 1254	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Aroclor 1260	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Aroclor-1262	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Aroclor 1268	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1
Polychlorinated biphenyls, Total	0.021	U	0.079	0.021	mg/Kg	☼	03/05/25 10:34	03/05/25 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:55*	*1*

Client Sample ID: IA-03-CS-8

Date Collected: 01/21/25 09:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-2

Matrix: Solid
Percent Solids: 85.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:55*	*1*
Tetrachloro-m-xylene	*85*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:55*	*1*
Tetrachloro-m-xylene	*83*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:55*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.3	U H	2.3	2.3	mg/Kg	☼	03/05/25 10:24	03/06/25 00:32	1
C9-C12 Aliphatics	3.5	U H	3.5	3.5	mg/Kg	☼	03/05/25 10:24	03/06/25 00:32	1
C16-C21 Aliphatics	2.3	U H	2.3	2.3	mg/Kg	☼	03/05/25 10:24	03/06/25 00:32	1
C21-C40 Aliphatics	8.2	U H	8.2	8.2	mg/Kg	☼	03/05/25 10:24	03/06/25 00:32	1
C16-C21 Aromatics	5.9	U H	5.9	5.9	mg/Kg	☼	03/05/25 10:24	03/06/25 00:32	1
C10-C12 Aromatics	2.3	U H	2.3	2.3	mg/Kg	☼	03/05/25 10:24	03/06/25 00:32	1
C12-C16 Aromatics	3.5	U H	3.5	3.5	mg/Kg	☼	03/05/25 10:24	03/06/25 00:32	1
C21-C36 Aromatic	9.4	U H	9.4	9.4	mg/Kg	☼	03/05/25 10:24	03/06/25 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:32*	*1*
2-Fluorobiphenyl	*88*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:32*	*1*
2-Bromonaphthalene	*77*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:32*	*1*
1-Chlorooctadecane	*60*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:32*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9430**		20.6	5.7	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Antimony	0.15	U	1.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Arsenic	**2.7**		1.0	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Barium	**7.1**		2.1	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Beryllium	**0.10**	**J**	0.41	0.059	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Cadmium	0.12	U	1.0	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Calcium	**76.7**	**J**	103	42.0	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Chromium	**13.8**		2.1	0.94	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Cobalt	**0.44**	**J**	2.1	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Copper	**5.3**		2.1	0.38	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Iron	**10200**		61.9	20.8	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Lead	**2.9**		0.62	0.21	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Magnesium	**103**		103	10.5	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Manganese	**5.1**		4.1	0.42	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Nickel	**1.8**	**J**	2.1	0.48	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Potassium	**284**		103	16.7	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Selenium	0.13	U	1.3	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Silver	0.092	U	0.41	0.092	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Sodium	47.1	U	103	47.1	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Thallium	0.042	U	0.41	0.042	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1
Vanadium	**23.6**		2.1	0.21	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1

Client Sample ID: IA-03-CS-8

Date Collected: 01/21/25 09:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-2

Matrix: Solid
Percent Solids: 85.0

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	5.4	J	8.3	3.1	mg/Kg	☼	03/05/25 07:28	03/05/25 17:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0090	J H	0.019	0.0088	mg/Kg	☼	03/05/25 01:20	03/05/25 06:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	U H	0.25	0.14	mg/Kg	☼	03/06/25 10:06	03/06/25 13:39	1
Percent Moisture (EPA Moisture)	15.0		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	85.0		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: IA-02-TS

Date Collected: 01/21/25 10:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-3

Matrix: Solid
Percent Solids: 88.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00098	0.00021	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,1,2-Trichloroethane	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,1-Dichloroethane	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,1-Dichloroethene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,2,3-Trichlorobenzene	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,2,4-Trichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,2-Dibromo-3-Chloropropane	0.00045	U *-	0.00098	0.00045	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,2-Dibromoethane	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,2-Dichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,2-Dichloroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,2-Dichloropropane	0.00042	U	0.00098	0.00042	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,3-Dichlorobenzene	0.00036	U	0.00098	0.00036	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
1,4-Dichlorobenzene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
2-Butanone (MEK)	0.00036	U	0.0049	0.00036	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
2-Hexanone	0.0017	U	0.0049	0.0017	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0049	0.0015	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Acetone	0.0056	U	0.0059	0.0056	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Benzene	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Bromodichloromethane	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Bromoform	0.00042	U	0.00098	0.00042	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Bromomethane	0.00098	U	0.0020	0.00098	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Carbon disulfide	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Carbon tetrachloride	0.00038	U	0.00098	0.00038	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Chlorobenzene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Chlorobromomethane	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Chloroethane	0.00051	U	0.00098	0.00051	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Chloroform	0.00095	U	0.00098	0.00095	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Chloromethane	0.00043	U	0.00098	0.00043	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
cis-1,2-Dichloroethene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
cis-1,3-Dichloropropene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1

Client Sample ID: IA-02-TS
Date Collected: 01/21/25 10:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-3
Matrix: Solid
Percent Solids: 88.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Dibromochloromethane	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Dichlorodifluoromethane	0.00033	U	0.00098	0.00033	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Ethylbenzene	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Isopropylbenzene	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Methyl acetate	0.0042	U	0.0049	0.0042	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Methyl tert-butyl ether	0.00050	U	0.00098	0.00050	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Methylcyclohexane	0.00049	U	0.00098	0.00049	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
m-Xylene & p-Xylene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
o-Xylene	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Styrene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Tetrachloroethene	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Toluene	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
trans-1,2-Dichloroethene	0.00024	U	0.00098	0.00024	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
trans-1,3-Dichloropropene	0.00026	U *-	0.00098	0.00026	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Trichloroethene	0.00032	U	0.00098	0.00032	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Trichlorofluoromethane	0.00040	U	0.00098	0.00040	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1
Vinyl chloride	0.00054	U	0.00098	0.00054	mg/Kg	☼	01/22/25 14:01	01/27/25 10:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:01*	*01/27/25 10:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 138*	*01/22/25 14:01*	*01/27/25 10:30*	*1*
4-Bromofluorobenzene	*96*		*71 - 128*	*01/22/25 14:01*	*01/27/25 10:30*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*	*01/22/25 14:01*	*01/27/25 10:30*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*	*01/22/25 14:01*	*01/27/25 10:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.013	U	0.37	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
1,2,4-Trichlorobenzene	0.0095	U	0.037	0.0095	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
1,2-Dichlorobenzene	0.0063	U	0.37	0.0063	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
1,2-Diphenylhydrazine	0.015	U	0.37	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
1,3-Dichlorobenzene	0.011	U	0.37	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
1,4-Dichlorobenzene	0.014	U	0.37	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2,4,5-Trichlorophenol	0.038	U	0.37	0.038	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2,4,6-Trichlorophenol	0.048	U	0.15	0.048	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2,4-Dimethylphenol	0.044	U	0.37	0.044	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2,4-Dinitrophenol	0.18	U	0.30	0.18	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2,4-Dinitrotoluene	0.040	U	0.075	0.040	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2,6-Dinitrotoluene	0.027	U	0.075	0.027	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2-Chloronaphthalene	0.017	U	0.37	0.017	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2-Chlorophenol	0.013	U	0.37	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2-Methylnaphthalene	0.010	U *-	0.37	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2-Methylphenol	0.014	U	0.37	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2-Nitroaniline	0.028	U	0.37	0.028	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
2-Nitrophenol	0.037	U	0.37	0.037	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1

Client Sample ID: IA-02-TS
Date Collected: 01/21/25 10:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-3
Matrix: Solid
Percent Solids: 88.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.056	U	0.15	0.056	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
3-Nitroaniline	0.088	U	0.37	0.088	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
4,6-Dinitro-2-methylphenol	0.15	U	0.30	0.15	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
4-Bromophenyl phenyl ether	0.015	U	0.37	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
4-Chloro-3-methylphenol	0.021	U	0.37	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
4-Chloroaniline	0.066	U	0.37	0.066	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
4-Chlorophenyl phenyl ether	0.013	U	0.37	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
4-Methylphenol	0.023	U	0.37	0.023	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
4-Nitroaniline	0.043	U	0.37	0.043	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
4-Nitrophenol	0.060	U	0.75	0.060	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Acenaphthene	0.011	U	0.37	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Acenaphthylene	0.011	U	0.37	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Acetophenone	0.018	U	0.37	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Anthracene	0.011	U	0.37	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Atrazine	0.022	U	0.15	0.022	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Benzaldehyde	0.061	U	0.37	0.061	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Benzidine	0.078	U	0.37	0.078	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Benzo[a]anthracene	0.028	U	0.037	0.028	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Benzo[a]pyrene	0.0099	U	0.037	0.0099	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Benzo[b]fluoranthene	0.0096	U	0.037	0.0096	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Benzo[g,h,i]perylene	0.011	U	0.37	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Benzo[k]fluoranthene	0.0073	U	0.037	0.0073	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
bis (2-chloroisopropyl) ether	0.022	U	0.37	0.022	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Bis(2-chloroethoxy)methane	0.029	U	0.37	0.029	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Bis(2-chloroethyl)ether	0.013	U	0.037	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Bis(2-ethylhexyl) phthalate	0.020	U	0.37	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Butyl benzyl phthalate	0.017	U	0.37	0.017	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Caprolactam	0.058	U	0.37	0.058	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Carbazole	0.014	U	0.37	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Chrysene	0.016	U	0.37	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Dibenz(a,h)anthracene	0.016	U	0.037	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Dibenzofuran	0.012	U	0.37	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Diethyl phthalate	0.012	U	0.37	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Dimethyl phthalate	0.084	U	0.37	0.084	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Di-n-butyl phthalate	0.014	U	0.37	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Di-n-octyl phthalate	0.020	U	0.37	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Fluoranthene	0.013	U	0.37	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Fluorene	0.011	U	0.37	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Hexachlorobenzene	0.018	U	0.037	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Hexachlorobutadiene	0.0079	U	0.075	0.0079	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Hexachlorocyclopentadiene	0.033	U	0.37	0.033	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Hexachloroethane	0.013	U	0.037	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Indeno[1,2,3-cd]pyrene	0.014	U	0.037	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Naphthalene	0.0064	U	0.37	0.0064	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Nitrobenzene	0.021	U	0.037	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
N-Nitrosodimethylamine	0.034	U	0.37	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
N-Nitrosodi-n-propylamine	0.027	U	0.037	0.027	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
N-Nitrosodiphenylamine	0.031	U	0.37	0.031	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1

Client Sample ID: IA-02-TS
Date Collected: 01/21/25 10:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-3
Matrix: Solid
Percent Solids: 88.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.076	U	0.30	0.076	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Phenanthrene	0.015	U	0.37	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Phenol	0.014	U	0.37	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1
Pyrene	0.0092	U	0.37	0.0092	mg/Kg	☼	01/23/25 09:13	01/23/25 21:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/23/25 21:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*47*		*24 - 137*	*01/23/25 09:13*	*01/23/25 21:05*	*1*
2-Fluorobiphenyl	*59*		*38 - 128*	*01/23/25 09:13*	*01/23/25 21:05*	*1*
2-Fluorophenol (Surr)	*56*		*31 - 133*	*01/23/25 09:13*	*01/23/25 21:05*	*1*
Nitrobenzene-d5 (Surr)	*58*		*31 - 120*	*01/23/25 09:13*	*01/23/25 21:05*	*1*
Phenol-d5 (Surr)	*59*		*35 - 132*	*01/23/25 09:13*	*01/23/25 21:05*	*1*
Terphenyl-d14 (Surr)	*59*		*44 - 147*	*01/23/25 09:13*	*01/23/25 21:05*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0013	U	0.0075	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
4,4'-DDE	0.00089	U	0.0075	0.00089	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
4,4'-DDT	0.0014	U	0.0075	0.0014	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Aldrin	0.0011	U	0.0075	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
alpha-BHC	0.00077	U	0.0023	0.00077	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
beta-BHC	0.00085	U	0.0023	0.00085	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
delta-BHC	0.00046	U	0.0023	0.00046	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Dieldrin	0.00098	U	0.0023	0.00098	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Endosulfan I	0.0011	U	0.0075	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Endosulfan II	0.0019	U	0.0075	0.0019	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Endosulfan sulfate	0.00095	U	0.0075	0.00095	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Endrin	0.0011	U	0.0075	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Endrin aldehyde	0.0018	U	0.0075	0.0018	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Endrin ketone	0.0015	U	0.0075	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
gamma-BHC (Lindane)	0.00070	U	0.0023	0.00070	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Heptachlor	0.00089	U	0.0075	0.00089	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Heptachlor epoxide	0.0011	U	0.0075	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Methoxychlor	0.0017	U	0.0075	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Toxaphene	0.027	U	0.075	0.027	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1
Chlordane (n.o.s.)	0.018	U	0.075	0.018	mg/Kg	☼	01/25/25 18:37	01/27/25 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*17 - 150*	*01/25/25 18:37*	*01/27/25 04:40*	*1*
DCB Decachlorobiphenyl	*72*		*17 - 150*	*01/25/25 18:37*	*01/27/25 04:40*	*1*
Tetrachloro-m-xylene	*57*		*21 - 150*	*01/25/25 18:37*	*01/27/25 04:40*	*1*
Tetrachloro-m-xylene	*54*		*21 - 150*	*01/25/25 18:37*	*01/27/25 04:40*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1
Aroclor 1221	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1
Aroclor 1232	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1
Aroclor 1242	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1

Client Sample ID: IA-02-TS
Date Collected: 01/21/25 10:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-3
Matrix: Solid
Percent Solids: 88.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1
Aroclor 1254	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1
Aroclor 1260	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1
Aroclor-1262	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1
Aroclor 1268	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1
Polychlorinated biphenyls, Total	0.020	U	0.075	0.020	mg/Kg	☼	01/25/25 18:34	01/27/25 07:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:38*	*1*
DCB Decachlorobiphenyl	*84*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:38*	*1*
Tetrachloro-m-xylene	*66*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:38*	*1*
Tetrachloro-m-xylene	*64*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:38*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.3	U	2.3	2.3	mg/Kg	☼	01/23/25 09:47	01/24/25 13:53	1
C9-C12 Aliphatics	3.4	U	3.4	3.4	mg/Kg	☼	01/23/25 09:47	01/24/25 13:53	1
C16-C21 Aliphatics	2.3	U	2.3	2.3	mg/Kg	☼	01/23/25 09:47	01/24/25 13:53	1
C21-C40 Aliphatics	7.9	U	7.9	7.9	mg/Kg	☼	01/23/25 09:47	01/24/25 13:53	1
C16-C21 Aromatics	5.6	U	5.6	5.6	mg/Kg	☼	01/23/25 09:47	01/24/25 13:53	1
C10-C12 Aromatics	2.3	U	2.3	2.3	mg/Kg	☼	01/23/25 09:47	01/24/25 13:53	1
C12-C16 Aromatics	3.4	U	3.4	3.4	mg/Kg	☼	01/23/25 09:47	01/24/25 13:53	1
C21-C36 Aromatic	9.0	U	9.0	9.0	mg/Kg	☼	01/23/25 09:47	01/24/25 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*40 - 140*	*01/23/25 09:47*	*01/24/25 13:53*	*1*
2-Fluorobiphenyl	*85*		*40 - 140*	*01/23/25 09:47*	*01/24/25 13:53*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*01/23/25 09:47*	*01/24/25 13:53*	*1*
1-Chlorooctadecane	*58*		*40 - 140*	*01/23/25 09:47*	*01/24/25 13:53*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2060**		20.5	5.6	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Antimony	0.15	U	1.0	0.15	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Arsenic	**0.86**	**J**	1.0	0.11	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Barium	**7.7**		2.0	0.15	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Beryllium	0.058	U	0.41	0.058	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Cadmium	0.12	U	1.0	0.12	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Calcium	**1000**		102	41.7	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Chromium	**5.0**		2.0	0.93	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Cobalt	**0.33**	**J**	2.0	0.15	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Copper	**4.2**		2.0	0.38	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Iron	**2650**		61.5	20.7	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Lead	**5.9**		0.61	0.20	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Magnesium	**131**		102	10.4	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1

Client Sample ID: IA-02-TS

Date Collected: 01/21/25 10:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-3

Matrix: Solid
Percent Solids: 88.8

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	14.5		4.1	0.41	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Nickel	1.1	J	2.0	0.48	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Potassium	71.7	J	102	16.6	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Selenium	0.13	U	1.3	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Silver	0.091	U	0.41	0.091	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Sodium	788		102	46.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Thallium	0.042	U	0.41	0.042	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Vanadium	5.6		2.0	0.21	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1
Zinc	11.0		8.2	3.1	mg/Kg	☼	01/24/25 06:19	01/24/25 18:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.016	0.0075	mg/Kg	☼	01/24/25 12:15	01/24/25 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	01/24/25 17:49	01/24/25 21:44	1
Percent Moisture (EPA Moisture)	11.2		1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	88.8		1.0	1.0	%			01/22/25 16:31	1

Client Sample ID: IA-02-CS

Date Collected: 01/21/25 10:55
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-4

Matrix: Solid
Percent Solids: 98.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00098	0.00021	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,1,2-Trichloroethane	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,1-Dichloroethane	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,1-Dichloroethene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,2,3-Trichlorobenzene	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,2,4-Trichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,2-Dibromo-3-Chloropropane	0.00045	U *-	0.00098	0.00045	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,2-Dibromoethane	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,2-Dichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,2-Dichloroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,2-Dichloropropane	0.00041	U	0.00098	0.00041	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,3-Dichlorobenzene	0.00036	U	0.00098	0.00036	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
1,4-Dichlorobenzene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
2-Butanone (MEK)	0.00036	U	0.0049	0.00036	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
2-Hexanone	0.0017	U	0.0049	0.0017	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0049	0.0015	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Acetone	0.067		0.0059	0.0056	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Benzene	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Bromodichloromethane	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Bromoform	0.00042	U	0.00098	0.00042	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Bromomethane	0.00098	U	0.0020	0.00098	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Carbon disulfide	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1

Client Sample ID: IA-02-CS

Date Collected: 01/21/25 10:55
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-4

Matrix: Solid
Percent Solids: 98.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00038	U	0.00098	0.00038	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Chlorobenzene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Chlorobromomethane	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Chloroethane	0.00051	U	0.00098	0.00051	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Chloroform	0.00095	U	0.00098	0.00095	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Chloromethane	0.00043	U	0.00098	0.00043	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
cis-1,2-Dichloroethene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
cis-1,3-Dichloropropene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Cyclohexane	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Dibromochloromethane	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Dichlorodifluoromethane	0.00033	U	0.00098	0.00033	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Ethylbenzene	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Isopropylbenzene	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Methyl acetate	0.0042	U	0.0049	0.0042	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Methyl tert-butyl ether	0.00050	U	0.00098	0.00050	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Methylcyclohexane	0.00049	U	0.00098	0.00049	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
m-Xylene & p-Xylene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
o-Xylene	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Styrene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Tetrachloroethene	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Toluene	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
trans-1,2-Dichloroethene	0.00024	U	0.00098	0.00024	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
trans-1,3-Dichloropropene	0.00026	U *-	0.00098	0.00026	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Trichloroethene	0.00031	U	0.00098	0.00031	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Trichlorofluoromethane	0.00040	U	0.00098	0.00040	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1
Vinyl chloride	0.00053	U	0.00098	0.00053	mg/Kg	☼	01/22/25 14:02	01/27/25 10:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:02*	*01/27/25 10:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 138*	*01/22/25 14:02*	*01/27/25 10:55*	*1*
4-Bromofluorobenzene	*94*		*71 - 128*	*01/22/25 14:02*	*01/27/25 10:55*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*	*01/22/25 14:02*	*01/27/25 10:55*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*	*01/22/25 14:02*	*01/27/25 10:55*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2,4-Dichlorophenol	0.022	U	0.13	0.022	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-02-CS
Date Collected: 01/21/25 10:55
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-4
Matrix: Solid
Percent Solids: 98.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2-Chloronaphthalene	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2-Methylnaphthalene	0.0094	U *-	0.33	0.0094	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
3-Nitroaniline	0.080	U	0.33	0.080	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
4-Nitroaniline	0.039	U	0.33	0.039	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Acenaphthene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Benzo[a]anthracene	**0.033**		0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Benzo[a]pyrene	**0.044**		0.033	0.0089	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Benzo[b]fluoranthene	**0.073**		0.033	0.0087	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Benzo[g,h,i]perylene	**0.047**	**J**	0.33	0.0099	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Benzo[k]fluoranthene	**0.024**	**J**	0.033	0.0066	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Bis(2-ethylhexyl) phthalate	**0.019**	**J**	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Chrysene	**0.048**	**J**	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Dibenz(a,h)anthracene	0.015	U	0.033	0.015	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Fluoranthene	**0.049**	**J**	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1

Client Sample ID: IA-02-CS
Date Collected: 01/21/25 10:55
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-4
Matrix: Solid
Percent Solids: 98.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Indeno[1,2,3-cd]pyrene	**0.040**		0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Phenanthrene	**0.014**	**J**	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1
Pyrene	**0.042**	**J**	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/24/25 03:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*2.0*	*A J*	*mg/Kg*	☼	*1.91*	*N/A*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Unknown	*0.67*	*J*	*mg/Kg*	☼	*6.78*	*N/A*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
n-Hexadecanoic acid	*0.70*	*J N*	*mg/Kg*	☼	*7.58*	*57-10-3*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Unknown	*0.33*	*J*	*mg/Kg*	☼	*7.72*	*N/A*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Oxirane, heptadecyl-	*0.30*	*J N*	*mg/Kg*	☼	*9.14*	*67860-04-2*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.34*	*J N*	*mg/Kg*	☼	*9.26*	*1740-19-8*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
1-Heneicosyl formate	*0.34*	*J N*	*mg/Kg*	☼	*9.35*	*77899-03-7*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Docosanoic acid	*0.29*	*J N*	*mg/Kg*	☼	*9.58*	*112-85-6*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Cyclohexadecane	*0.56*	*J N*	*mg/Kg*	☼	*10.02*	*295-65-8*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Tetracosanoic acid	*0.40*	*J N*	*mg/Kg*	☼	*10.26*	*557-59-5*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Cyclotetracosane	*0.64*	*J N*	*mg/Kg*	☼	*10.71*	*297-03-0*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Octacosane	*0.32*	*J N*	*mg/Kg*	☼	*11.40*	*630-02-4*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Unknown	*0.64*	*J*	*mg/Kg*	☼	*11.43*	*N/A*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Vitamin E	*0.48*	*J N*	*mg/Kg*	☼	*11.57*	*10191-41-0*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Stigmasterol	*0.28*	*J N*	*mg/Kg*	☼	*12.18*	*83-48-7*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Unknown	*0.29*	*J*	*mg/Kg*	☼	*12.23*	*N/A*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Stigmasterol, 22,23-dihydro-	*2.4*	*J N*	*mg/Kg*	☼	*12.48*	*1000214-20-7*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Ergostanol	*0.43*	*J N*	*mg/Kg*	☼	*12.55*	*6538-02-9*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Stigmast-4-en-3-one	*0.67*	*J N*	*mg/Kg*	☼	*13.18*	*1058-61-3*	*01/23/25 09:13*	*01/24/25 03:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*56*		*24 - 137*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
2-Fluorobiphenyl	*58*		*38 - 128*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
2-Fluorophenol (Surr)	*52*		*31 - 133*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Nitrobenzene-d5 (Surr)	*54*		*31 - 120*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Phenol-d5 (Surr)	*53*		*35 - 132*	*01/23/25 09:13*	*01/24/25 03:09*	*1*
Terphenyl-d14 (Surr)	*54*		*44 - 147*	*01/23/25 09:13*	*01/24/25 03:09*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
4,4'-DDT	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1

Client Sample ID: IA-02-CS
Date Collected: 01/21/25 10:55
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-4
Matrix: Solid
Percent Solids: 98.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Dieldrin	0.00089	U	0.0020	0.00089	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Endosulfan II	0.0018	U	0.0068	0.0018	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Endosulfan sulfate	0.00086	U	0.0068	0.00086	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Endrin	0.00098	U	0.0068	0.00098	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*17 - 150*	*01/25/25 18:37*	*01/27/25 04:52*	*1*
DCB Decachlorobiphenyl	*89*		*17 - 150*	*01/25/25 18:37*	*01/27/25 04:52*	*1*
Tetrachloro-m-xylene	*79*		*21 - 150*	*01/25/25 18:37*	*01/27/25 04:52*	*1*
Tetrachloro-m-xylene	*75*		*21 - 150*	*01/25/25 18:37*	*01/27/25 04:52*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:55*	*1*
DCB Decachlorobiphenyl	*109*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:55*	*1*
Tetrachloro-m-xylene	*94*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:55*	*1*
Tetrachloro-m-xylene	*93*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:55*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:09	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:09	1

Client Sample ID: IA-02-CS

Date Collected: 01/21/25 10:55
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-4

Matrix: Solid
Percent Solids: 98.2

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:09	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:09	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:09	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:09	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:09	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:09*	*1*
2-Fluorobiphenyl	*80*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:09*	*1*
2-Bromonaphthalene	*76*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:09*	*1*
1-Chlorooctadecane	*75*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:09*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6580**		18.2	5.0	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Antimony	0.13	U	0.91	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Arsenic	**0.99**		0.91	0.094	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Barium	**4.8**		1.8	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Beryllium	**0.061**	**J**	0.36	0.052	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Cadmium	0.10	U	0.91	0.10	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Calcium	**134**		90.9	37.0	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Chromium	**6.0**		1.8	0.83	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Cobalt	**0.29**	**J**	1.8	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Copper	**3.2**		1.8	0.33	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Iron	**3450**		54.5	18.4	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Lead	**2.4**		0.55	0.18	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Magnesium	**81.9**	**J**	90.9	9.3	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Manganese	**5.1**		3.6	0.37	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Nickel	**2.3**		1.8	0.43	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Potassium	**92.8**		90.9	14.7	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Silver	0.081	U	0.36	0.081	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Sodium	**50.8**	**J**	90.9	41.5	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Vanadium	**6.3**		1.8	0.19	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1
Zinc	2.8	U	7.3	2.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.017	0.0080	mg/Kg	☼	01/24/25 12:15	01/24/25 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.20	0.11	mg/Kg	☼	01/24/25 17:49	01/24/25 21:45	1
Percent Moisture (EPA Moisture)	**1.8**		1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	**98.2**		1.0	1.0	%			01/22/25 16:31	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-05-TS
Date Collected: 01/21/25 11:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-5
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00020	U	0.00086	0.00020	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,1,2,2-Tetrachloroethane	0.00018	U	0.00086	0.00018	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00026	U	0.00086	0.00026	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,1,2-Trichloroethane	0.00015	U	0.00086	0.00015	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,1-Dichloroethane	0.00018	U	0.00086	0.00018	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,1-Dichloroethene	0.00019	U	0.00086	0.00019	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,2,3-Trichlorobenzene	0.00016	U	0.00086	0.00016	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,2,4-Trichlorobenzene	0.00031	U	0.00086	0.00031	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,2-Dibromo-3-Chloropropane	0.00040	U *-	0.00086	0.00040	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,2-Dibromoethane	0.00016	U	0.00086	0.00016	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,2-Dichlorobenzene	0.00031	U	0.00086	0.00031	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,2-Dichloroethane	0.00026	U	0.00086	0.00026	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,2-Dichloropropane	0.00037	U	0.00086	0.00037	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,3-Dichlorobenzene	0.00032	U	0.00086	0.00032	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
1,4-Dichlorobenzene	0.00019	U	0.00086	0.00019	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
2-Butanone (MEK)	0.00032	U	0.0043	0.00032	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
2-Hexanone	0.0015	U	0.0043	0.0015	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
4-Methyl-2-pentanone (MIBK)	0.0013	U	0.0043	0.0013	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Acetone	**0.010**		0.0052	0.0049	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Benzene	0.00022	U	0.00086	0.00022	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Bromodichloromethane	0.00022	U	0.00086	0.00022	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Bromoform	0.00037	U	0.00086	0.00037	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Bromomethane	0.00086	U	0.0017	0.00086	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Carbon disulfide	0.00023	U	0.00086	0.00023	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Carbon tetrachloride	0.00033	U	0.00086	0.00033	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Chlorobenzene	0.00015	U	0.00086	0.00015	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Chlorobromomethane	0.00024	U	0.00086	0.00024	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Chloroethane	0.00045	U	0.00086	0.00045	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Chloroform	0.00084	U	0.00086	0.00084	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Chloromethane	0.00038	U	0.00086	0.00038	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
cis-1,2-Dichloroethene	0.00031	U	0.00086	0.00031	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
cis-1,3-Dichloropropene	0.00024	U	0.00086	0.00024	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Cyclohexane	0.00019	U	0.00086	0.00019	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Dibromochloromethane	0.00017	U	0.00086	0.00017	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Dichlorodifluoromethane	0.00029	U	0.00086	0.00029	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Ethylbenzene	0.00017	U	0.00086	0.00017	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Isopropylbenzene	0.00025	U	0.00086	0.00025	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Methyl acetate	0.0037	U	0.0043	0.0037	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Methyl tert-butyl ether	0.00044	U	0.00086	0.00044	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Methylcyclohexane	0.00043	U	0.00086	0.00043	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Methylene Chloride	0.00099	U	0.0017	0.00099	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
m-Xylene & p-Xylene	0.00015	U	0.00086	0.00015	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
o-Xylene	0.00017	U	0.00086	0.00017	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Styrene	0.00024	U	0.00086	0.00024	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Tetrachloroethene	0.00026	U	0.00086	0.00026	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Toluene	0.00020	U	0.00086	0.00020	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
trans-1,2-Dichloroethene	0.00021	U	0.00086	0.00021	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
trans-1,3-Dichloropropene	0.00023	U *-	0.00086	0.00023	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Trichloroethene	0.00028	U	0.00086	0.00028	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1

Client Sample ID: IA-05-TS
Date Collected: 01/21/25 11:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-5
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00035	U	0.00086	0.00035	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1
Vinyl chloride	0.00047	U	0.00086	0.00047	mg/Kg	☼	01/22/25 14:02	01/27/25 11:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:02*	*01/27/25 11:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*	*01/22/25 14:02*	*01/27/25 11:19*	*1*
4-Bromofluorobenzene	*96*		*71 - 128*	*01/22/25 14:02*	*01/27/25 11:19*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 150*	*01/22/25 14:02*	*01/27/25 11:19*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*	*01/22/25 14:02*	*01/27/25 11:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2-Methylnaphthalene	0.0093	U *-	0.33	0.0093	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-05-TS
Date Collected: 01/21/25 11:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-5
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/23/25 21:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/23/25 21:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*45*		*24 - 137*	*01/23/25 09:13*	*01/23/25 21:24*	*1*
2-Fluorobiphenyl	*59*		*38 - 128*	*01/23/25 09:13*	*01/23/25 21:24*	*1*
2-Fluorophenol (Surr)	*56*		*31 - 133*	*01/23/25 09:13*	*01/23/25 21:24*	*1*
Nitrobenzene-d5 (Surr)	*56*		*31 - 120*	*01/23/25 09:13*	*01/23/25 21:24*	*1*
Phenol-d5 (Surr)	*58*		*35 - 132*	*01/23/25 09:13*	*01/23/25 21:24*	*1*
Terphenyl-d14 (Surr)	*59*		*44 - 147*	*01/23/25 09:13*	*01/23/25 21:24*	*1*

Client Sample ID: IA-05-TS

Date Collected: 01/21/25 11:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-5

Matrix: Solid
Percent Solids: 99.3

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
4,4'-DDE	0.00080	U	0.0067	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Endosulfan sulfate	0.00085	U	0.0067	0.00085	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Endrin	0.00097	U	0.0067	0.00097	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Heptachlor	0.00080	U	0.0067	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:05*	*1*
DCB Decachlorobiphenyl	*91*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:05*	*1*
Tetrachloro-m-xylene	*71*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:05*	*1*
Tetrachloro-m-xylene	*63*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:05*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*154*	*S1+*	*20 - 150*	*01/25/25 18:34*	*01/27/25 08:12*	*1*
DCB Decachlorobiphenyl	*161*	*S1+*	*20 - 150*	*01/25/25 18:34*	*01/27/25 08:12*	*1*
Tetrachloro-m-xylene	*114*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:12*	*1*
Tetrachloro-m-xylene	*116*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:12*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Client Sample ID: IA-05-TS
Date Collected: 01/21/25 11:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-5
Matrix: Solid
Percent Solids: 99.3

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:25	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:25	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:25	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:25	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:25	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:25	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:25	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:25*	*1*
2-Fluorobiphenyl	*86*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:25*	*1*
2-Bromonaphthalene	*83*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:25*	*1*
1-Chlorooctadecane	*80*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:25*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3850**		18.5	5.1	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Arsenic	**1.0**		0.92	0.095	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Barium	**5.1**		1.8	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Calcium	**413**		92.4	37.6	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Chromium	**5.8**		1.8	0.84	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Cobalt	**0.34**	**J**	1.8	0.14	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Copper	**3.6**		1.8	0.34	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Iron	**3460**		55.4	18.7	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Lead	**7.0**		0.55	0.18	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Magnesium	**131**		92.4	9.4	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Manganese	**8.8**		3.7	0.37	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Nickel	**1.3**	**J**	1.8	0.43	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Potassium	**143**		92.4	15.0	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Sodium	**79.9**	**J**	92.4	42.2	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Vanadium	**7.0**		1.8	0.19	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1
Zinc	**7.0**	**J**	7.4	2.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.015	0.0069	mg/Kg	☼	01/24/25 12:15	01/24/25 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/24/25 17:49	01/24/25 21:46	1

Client Sample ID: IA-05-TS

Date Collected: 01/21/25 11:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-5

Matrix: Solid
Percent Solids: 99.3

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	**99.3**		1.0	1.0	%			01/22/25 16:31	1

Client Sample ID: IA-05-CS-4

Date Collected: 01/21/25 11:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-6

Matrix: Solid
Percent Solids: 97.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,2-Dibromo-3-Chloropropane	0.00047	U *-	0.0010	0.00047	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,2-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,2-Dichloropropane	0.00043	U	0.0010	0.00043	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
2-Butanone (MEK)	0.00038	U	0.0051	0.00038	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
2-Hexanone	0.0017	U	0.0051	0.0017	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0051	0.0016	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Acetone	0.0058	U	0.0061	0.0058	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Chlorobromomethane	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Chloroethane	0.00053	U	0.0010	0.00053	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Chloroform	0.00099	U	0.0010	0.00099	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Cyclohexane	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Dibromochloromethane	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Methyl acetate	0.0044	U	0.0051	0.0044	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Methyl tert-butyl ether	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Methylcyclohexane	0.00051	U	0.0010	0.00051	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Methylene Chloride	0.0012	U	0.0020	0.0012	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1

Client Sample ID: IA-05-CS-4
Date Collected: 01/21/25 11:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-6
Matrix: Solid
Percent Solids: 97.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
trans-1,3-Dichloropropene	0.00027	U *-	0.0010	0.00027	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1
Vinyl chloride	0.00056	U	0.0010	0.00056	mg/Kg	☼	01/22/25 14:03	01/27/25 11:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:03*	*01/27/25 11:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 138*	*01/22/25 14:03*	*01/27/25 11:45*	*1*
4-Bromofluorobenzene	*92*		*71 - 128*	*01/22/25 14:03*	*01/27/25 11:45*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 150*	*01/22/25 14:03*	*01/27/25 11:45*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*	*01/22/25 14:03*	*01/27/25 11:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
1,2,4-Trichlorobenzene	0.0087	U	0.034	0.0087	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
1,2-Dichlorobenzene	0.0058	U	0.34	0.0058	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
1,2-Diphenylhydrazine	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2,4,5-Trichlorophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2,4,6-Trichlorophenol	0.043	U	0.14	0.043	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2,4-Dimethylphenol	0.040	U	0.34	0.040	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2,4-Dinitrophenol	0.17	U	0.27	0.17	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2-Methylnaphthalene	0.0094	U *-	0.34	0.0094	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
3,3'-Dichlorobenzidine	0.051	U	0.14	0.051	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
3-Nitroaniline	0.080	U	0.34	0.080	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
4-Bromophenyl phenyl ether	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
4-Chloroaniline	0.060	U	0.34	0.060	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1

Client Sample ID: IA-05-CS-4

Date Collected: 01/21/25 11:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-6

Matrix: Solid
Percent Solids: 97.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Acenaphthene	0.0096	U	0.34	0.0096	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Acenaphthylene	0.0097	U	0.34	0.0097	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Anthracene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Benzaldehyde	0.056	U	0.34	0.056	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Benzidine	0.071	U	0.34	0.071	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Benzo[a]anthracene	0.025	U	0.034	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Benzo[a]pyrene	**0.019**	**J**	0.034	0.0090	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Benzo[b]fluoranthene	**0.030**	**J**	0.034	0.0087	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Benzo[g,h,i]perylene	**0.020**	**J**	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Benzo[k]fluoranthene	**0.011**	**J**	0.034	0.0066	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
bis (2-chloroisopropyl) ether	0.020	U	0.34	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Bis(2-chloroethoxy)methane	0.026	U	0.34	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Caprolactam	0.053	U	0.34	0.053	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Chrysene	**0.019**	**J**	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Dimethyl phthalate	0.077	U	0.34	0.077	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Fluoranthene	**0.022**	**J**	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Fluorene	0.0099	U	0.34	0.0099	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Hexachlorobutadiene	0.0072	U	0.068	0.0072	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Indeno[1,2,3-cd]pyrene	**0.015**	**J**	0.034	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Isophorone	0.098	U	0.14	0.098	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Naphthalene	0.0058	U	0.34	0.0058	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
N-Nitrosodimethylamine	0.031	U	0.34	0.031	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Phenol	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1
Pyrene	**0.019**	**J**	0.34	0.0084	mg/Kg	☼	01/23/25 09:13	01/24/25 02:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*1.2*	*A J*	*mg/Kg*	☼	*1.95*	*N/A*	*01/23/25 09:13*	*01/24/25 02:50*	*1*
Stigmasterol, 22,23-dihydro-	*0.48*	*J N*	*mg/Kg*	☼	*12.47*	*1000214-20-7*	*01/23/25 09:13*	*01/24/25 02:50*	*1*

Client Sample ID: IA-05-CS-4

Date Collected: 01/21/25 11:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-6

Matrix: Solid
Percent Solids: 97.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*46*		*24 - 137*	*01/23/25 09:13*	*01/24/25 02:50*	*1*
2-Fluorobiphenyl	*51*		*38 - 128*	*01/23/25 09:13*	*01/24/25 02:50*	*1*
2-Fluorophenol (Surr)	*48*		*31 - 133*	*01/23/25 09:13*	*01/24/25 02:50*	*1*
Nitrobenzene-d5 (Surr)	*49*		*31 - 120*	*01/23/25 09:13*	*01/24/25 02:50*	*1*
Phenol-d5 (Surr)	*49*		*35 - 132*	*01/23/25 09:13*	*01/24/25 02:50*	*1*
Terphenyl-d14 (Surr)	*50*		*44 - 147*	*01/23/25 09:13*	*01/24/25 02:50*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0069	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
4,4'-DDE	0.00081	U	0.0069	0.00081	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
4,4'-DDT	0.0013	U	0.0069	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Aldrin	0.0010	U	0.0069	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
alpha-BHC	0.00070	U	0.0021	0.00070	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
beta-BHC	0.00077	U	0.0021	0.00077	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
delta-BHC	0.00042	U	0.0021	0.00042	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Dieldrin	0.00089	U	0.0021	0.00089	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Endosulfan I	0.0010	U	0.0069	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Endosulfan II	0.0018	U	0.0069	0.0018	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Endosulfan sulfate	0.00086	U	0.0069	0.00086	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Endrin	0.00099	U	0.0069	0.00099	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Endrin aldehyde	0.0016	U	0.0069	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Endrin ketone	0.0013	U	0.0069	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
gamma-BHC (Lindane)	0.00064	U	0.0021	0.00064	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Heptachlor	0.00081	U	0.0069	0.00081	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Heptachlor epoxide	0.0010	U	0.0069	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Methoxychlor	0.0016	U	0.0069	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Toxaphene	0.025	U	0.069	0.025	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1
Chlordane (n.o.s.)	0.017	U	0.069	0.017	mg/Kg	☼	01/25/25 18:37	01/27/25 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:17*	*1*
DCB Decachlorobiphenyl	*100*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:17*	*1*
Tetrachloro-m-xylene	*96*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:17*	*1*
Tetrachloro-m-xylene	*81*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:17*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Aroclor 1221	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Aroclor 1232	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Aroclor 1242	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Aroclor 1248	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Aroclor 1254	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Aroclor 1260	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Aroclor-1262	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Aroclor 1268	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1
Polychlorinated biphenyls, Total	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:28*	*1*

Client Sample ID: IA-05-CS-4

Date Collected: 01/21/25 11:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-6

Matrix: Solid
Percent Solids: 97.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:28*	*1*
Tetrachloro-m-xylene	*92*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:28*	*1*
Tetrachloro-m-xylene	*87*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:28*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:40	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:40	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:40	1
C21-C40 Aliphatics	7.2	U	7.2	7.2	mg/Kg	☼	01/23/25 09:47	01/24/25 14:40	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:40	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:40	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:40	1
C21-C36 Aromatic	8.2	U	8.2	8.2	mg/Kg	☼	01/23/25 09:47	01/24/25 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:40*	*1*
2-Fluorobiphenyl	*86*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:40*	*1*
2-Bromonaphthalene	*83*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:40*	*1*
1-Chlorooctadecane	*83*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:40*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5090**		18.3	5.0	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Arsenic	**0.88**	**J**	0.92	0.094	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Barium	**4.4**		1.8	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Beryllium	**0.052**	**J**	0.37	0.052	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Calcium	**188**		91.7	37.3	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Chromium	**5.8**		1.8	0.83	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Cobalt	**0.29**	**J**	1.8	0.14	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Copper	**3.5**		1.8	0.34	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Iron	**3000**		55.0	18.5	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Lead	**2.9**		0.55	0.18	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Magnesium	**80.3**	**J**	91.7	9.3	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Manganese	**5.1**		3.7	0.37	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Nickel	**1.5**	**J**	1.8	0.43	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Potassium	**115**		91.7	14.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Sodium	**50.9**	**J**	91.7	41.9	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1
Vanadium	**6.0**		1.8	0.19	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1

Client Sample ID: IA-05-CS-4

Lab Sample ID: 460-319135-6

Date Collected: 01/21/25 11:40
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 97.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**2.8**	**J**	7.3	2.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.017	0.0079	mg/Kg	☼	01/24/25 12:15	01/24/25 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.25	0.13	mg/Kg	☼	01/24/25 17:49	01/24/25 21:51	1
Percent Moisture (EPA Moisture)	**2.6**		1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	**97.4**		1.0	1.0	%			01/22/25 16:31	1

Client Sample ID: IA-05-CS-8

Lab Sample ID: 460-319135-7

Date Collected: 01/21/25 12:00
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00098	0.00021	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,1,2-Trichloroethane	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,1-Dichloroethane	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,1-Dichloroethene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,2,3-Trichlorobenzene	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,2,4-Trichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,2-Dibromo-3-Chloropropane	0.00045	U *-	0.00098	0.00045	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,2-Dibromoethane	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,2-Dichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,2-Dichloroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,2-Dichloropropane	0.00041	U	0.00098	0.00041	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,3-Dichlorobenzene	0.00036	U	0.00098	0.00036	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
1,4-Dichlorobenzene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
2-Butanone (MEK)	0.00036	U	0.0049	0.00036	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
2-Hexanone	0.0017	U	0.0049	0.0017	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0049	0.0015	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Acetone	**0.071**		0.0059	0.0056	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Benzene	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Bromodichloromethane	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Bromoform	0.00042	U	0.00098	0.00042	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Bromomethane	0.00098	U	0.0020	0.00098	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Carbon disulfide	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Carbon tetrachloride	0.00038	U	0.00098	0.00038	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Chlorobenzene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Chlorobromomethane	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Chloroethane	0.00051	U	0.00098	0.00051	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Chloroform	0.00095	U	0.00098	0.00095	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Chloromethane	0.00043	U	0.00098	0.00043	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
cis-1,2-Dichloroethene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
cis-1,3-Dichloropropene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1

Client Sample ID: IA-05-CS-8
Date Collected: 01/21/25 12:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-7
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Dibromochloromethane	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Dichlorodifluoromethane	0.00033	U	0.00098	0.00033	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Ethylbenzene	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Isopropylbenzene	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Methyl acetate	0.0042	U	0.0049	0.0042	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Methyl tert-butyl ether	0.00050	U	0.00098	0.00050	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Methylcyclohexane	0.00049	U	0.00098	0.00049	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
m-Xylene & p-Xylene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
o-Xylene	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Styrene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Tetrachloroethene	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Toluene	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
trans-1,2-Dichloroethene	0.00024	U	0.00098	0.00024	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
trans-1,3-Dichloropropene	0.00026	U *-	0.00098	0.00026	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Trichloroethene	0.00031	U	0.00098	0.00031	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Trichlorofluoromethane	0.00040	U	0.00098	0.00040	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1
Vinyl chloride	0.00053	U	0.00098	0.00053	mg/Kg	☼	01/22/25 14:03	01/27/25 12:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:03*	*01/27/25 12:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 138*	*01/22/25 14:03*	*01/27/25 12:09*	*1*
4-Bromofluorobenzene	*95*		*71 - 128*	*01/22/25 14:03*	*01/27/25 12:09*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*	*01/22/25 14:03*	*01/27/25 12:09*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*	*01/22/25 14:03*	*01/27/25 12:09*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2-Methylnaphthalene	0.0093	U *-	0.33	0.0093	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1

Client Sample ID: IA-05-CS-8
Date Collected: 01/21/25 12:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-7
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1

Client Sample ID: IA-05-CS-8

Date Collected: 01/21/25 12:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-7

Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/24/25 00:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/24/25 00:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*24 - 137*	*01/23/25 09:13*	*01/24/25 00:17*	*1*
2-Fluorobiphenyl	*62*		*38 - 128*	*01/23/25 09:13*	*01/24/25 00:17*	*1*
2-Fluorophenol (Surr)	*57*		*31 - 133*	*01/23/25 09:13*	*01/24/25 00:17*	*1*
Nitrobenzene-d5 (Surr)	*58*		*31 - 120*	*01/23/25 09:13*	*01/24/25 00:17*	*1*
Phenol-d5 (Surr)	*59*		*35 - 132*	*01/23/25 09:13*	*01/24/25 00:17*	*1*
Terphenyl-d14 (Surr)	*62*		*44 - 147*	*01/23/25 09:13*	*01/24/25 00:17*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0068	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:29*	*1*
DCB Decachlorobiphenyl	*92*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:29*	*1*
Tetrachloro-m-xylene	*77*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:29*	*1*
Tetrachloro-m-xylene	*69*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:29*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1

Client Sample ID: IA-05-CS-8

Date Collected: 01/21/25 12:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-7

Matrix: Solid
Percent Solids: 99.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:45*	*1*
DCB Decachlorobiphenyl	*103*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:45*	*1*
Tetrachloro-m-xylene	*82*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:45*	*1*
Tetrachloro-m-xylene	*80*		*20 - 150*	*01/25/25 18:34*	*01/27/25 08:45*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:56	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:56	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:56	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:56	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:56	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:56	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 14:56	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/23/25 09:47	01/24/25 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:56*	*1*
2-Fluorobiphenyl	*89*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:56*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:56*	*1*
1-Chlorooctadecane	*71*		*40 - 140*	*01/23/25 09:47*	*01/24/25 14:56*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1420**		18.7	5.1	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Antimony	0.14	U	0.93	0.14	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Arsenic	**0.17**	**J**	0.93	0.096	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Barium	**2.8**		1.9	0.14	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Cadmium	0.11	U	0.93	0.11	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Calcium	38.0	U	93.3	38.0	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Chromium	**2.9**		1.9	0.85	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Copper	**0.71**	**J**	1.9	0.34	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Iron	**506**		56.0	18.9	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Lead	**1.3**		0.56	0.19	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Magnesium	**25.0**	**J**	93.3	9.5	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1

Client Sample ID: IA-05-CS-8

Date Collected: 01/21/25 12:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-7

Matrix: Solid
Percent Solids: 99.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.2**	**J**	3.7	0.38	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Nickel	0.44	U	1.9	0.44	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Potassium	**130**		93.3	15.1	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Silver	0.083	U	0.37	0.083	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Sodium	42.7	U	93.3	42.7	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Vanadium	**2.1**		1.9	0.19	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1
Zinc	2.8	U	7.5	2.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0088**	**J**	0.015	0.0071	mg/Kg	☼	01/24/25 12:15	01/24/25 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/24/25 17:51	01/24/25 21:51	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	**99.2**		1.0	1.0	%			01/22/25 16:31	1

Client Sample ID: FB_20250121

Date Collected: 01/21/25 13:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/23/25 08:58	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/23/25 08:58	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/23/25 08:58	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/23/25 08:58	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/23/25 08:58	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/23/25 08:58	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/23/25 08:58	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/23/25 08:58	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/23/25 08:58	1
1,4-Dioxane	28	U	50	28	ug/L			01/23/25 08:58	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/23/25 08:58	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/23/25 08:58	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/23/25 08:58	1
Acetone	4.4	U	5.0	4.4	ug/L			01/23/25 08:58	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/23/25 08:58	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/23/25 08:58	1
Benzene	0.20	U	1.0	0.20	ug/L			01/23/25 08:58	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/23/25 08:58	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/23/25 08:58	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/23/25 08:58	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/23/25 08:58	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/23/25 08:58	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/23/25 08:58	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/23/25 08:58	1

Client Sample ID: FB_20250121

Date Collected: 01/21/25 13:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.33	U	1.0	0.33	ug/L			01/23/25 08:58	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/23/25 08:58	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/23/25 08:58	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 08:58	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/23/25 08:58	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/23/25 08:58	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/23/25 08:58	1
Methyl acetate	0.79	U *+	5.0	0.79	ug/L			01/23/25 08:58	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/23/25 08:58	1
Methylene Chloride	**0.32**	**J**	1.0	0.32	ug/L			01/23/25 08:58	1
Styrene	0.42	U	1.0	0.42	ug/L			01/23/25 08:58	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/23/25 08:58	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/23/25 08:58	1
Toluene	0.38	U	1.0	0.38	ug/L			01/23/25 08:58	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/23/25 08:58	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 08:58	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/23/25 08:58	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/23/25 08:58	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/23/25 08:58	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/23/25 08:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/23/25 08:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*		*01/23/25 08:58*	*1*
4-Bromofluorobenzene	*89*		*76 - 120*		*01/23/25 08:58*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 132*		*01/23/25 08:58*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/23/25 08:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:45	1
1,2,4-Trichlorobenzene	0.64	U	2.0	0.64	ug/L		01/23/25 10:04	01/23/25 21:45	1
1,2-Dichlorobenzene	0.50	U	10	0.50	ug/L		01/23/25 10:04	01/23/25 21:45	1
1,2-Diphenylhydrazine	0.79	U	10	0.79	ug/L		01/23/25 10:04	01/23/25 21:45	1
1,3-Dichlorobenzene	2.0	U	10	2.0	ug/L		01/23/25 10:04	01/23/25 21:45	1
1,4-Dichlorobenzene	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:45	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 21:45	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 21:45	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:45	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		01/23/25 10:04	01/23/25 21:45	1
2,4-Dinitrophenol	11	U	40	11	ug/L		01/23/25 10:04	01/23/25 21:45	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 21:45	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 21:45	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:45	1
2-Chlorophenol	0.95	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 21:45	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		01/23/25 10:04	01/23/25 21:45	1
2-Methylphenol	0.67	U	10	0.67	ug/L		01/23/25 10:04	01/23/25 21:45	1
2-Nitroaniline	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:45	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: FB_20250121
Date Collected: 01/21/25 13:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-8
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	0.75	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:45	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 21:45	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 21:45	1
4,6-Dinitro-2-methylphenol	8.6	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 21:45	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:45	1
4-Chloro-3-methylphenol	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:45	1
4-Chloroaniline	1.9	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 21:45	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:45	1
4-Methylphenol	0.65	U	10	0.65	ug/L		01/23/25 10:04	01/23/25 21:45	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:45	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 21:45	1
Acenaphthene	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:45	1
Acenaphthylene	0.82	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 21:45	1
Acetophenone	2.3	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 21:45	1
Anthracene	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:45	1
Atrazine	1.3	U *1 *+	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 21:45	1
Benzaldehyde	2.1	U *1 *+	10	2.1	ug/L		01/23/25 10:04	01/23/25 21:45	1
Benzidine	2.8	U *1	20	2.8	ug/L		01/23/25 10:04	01/23/25 21:45	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 21:45	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 21:45	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 21:45	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 21:45	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 21:45	1
bis (2-chloroisopropyl) ether	0.63	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 21:45	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 21:45	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 21:45	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 21:45	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 21:45	1
Caprolactam	2.2	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 21:45	1
Carbazole	0.68	U	10	0.68	ug/L		01/23/25 10:04	01/23/25 21:45	1
Chrysene	0.91	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 21:45	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 21:45	1
Dibenzofuran	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:45	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 21:45	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 21:45	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 21:45	1
Di-n-octyl phthalate	4.0	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 21:45	1
Fluoranthene	0.84	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 21:45	1
Fluorene	0.91	U	10	0.91	ug/L		01/23/25 10:04	01/23/25 21:45	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 21:45	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 21:45	1
Hexachlorocyclopentadiene	3.6	U *+	10	3.6	ug/L		01/23/25 10:04	01/23/25 21:45	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 21:45	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 21:45	1
Isophorone	0.80	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 21:45	1
Naphthalene	0.54	U	2.0	0.54	ug/L		01/23/25 10:04	01/23/25 21:45	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 21:45	1
N-Nitrosodimethylamine	0.45	U	10	0.45	ug/L		01/23/25 10:04	01/23/25 21:45	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 21:45	1

Client Sample ID: FB_20250121
Date Collected: 01/21/25 13:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-8
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 21:45	1
Pentachlorophenol	6.6	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 21:45	1
Phenanthrene	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:45	1
Phenol	0.29	U	10	0.29	ug/L		01/23/25 10:04	01/23/25 21:45	1
Pyrene	1.6	U	10	1.6	ug/L		01/23/25 10:04	01/23/25 21:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*01/23/25 10:04*	*01/23/25 21:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*37 - 150*	*01/23/25 10:04*	*01/23/25 21:45*	*1*
2-Fluorobiphenyl	*90*		*46 - 139*	*01/23/25 10:04*	*01/23/25 21:45*	*1*
2-Fluorophenol (Surr)	*53*		*16 - 80*	*01/23/25 10:04*	*01/23/25 21:45*	*1*
Nitrobenzene-d5 (Surr)	*90*		*51 - 145*	*01/23/25 10:04*	*01/23/25 21:45*	*1*
Phenol-d5 (Surr)	*34*		*10 - 56*	*01/23/25 10:04*	*01/23/25 21:45*	*1*
Terphenyl-d14 (Surr)	*33*		*13 - 159*	*01/23/25 10:04*	*01/23/25 21:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:38	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 06:38	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 06:38	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:38	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 06:38	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:38	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:38	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:38	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:38	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:38	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:38	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:38	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:38	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:38	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:38	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:38	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:38	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:38	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 06:38	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 06:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*34 - 120*	*01/23/25 20:22*	*01/24/25 06:38*	*1*
Tetrachloro-m-xylene	*66*		*34 - 120*	*01/23/25 20:22*	*01/24/25 06:38*	*1*
DCB Decachlorobiphenyl	*59*		*30 - 131*	*01/23/25 20:22*	*01/24/25 06:38*	*1*
DCB Decachlorobiphenyl	*58*		*30 - 131*	*01/23/25 20:22*	*01/24/25 06:38*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:59	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:59	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:59	1

Client Sample ID: FB_20250121

Date Collected: 01/21/25 13:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-8

Matrix: Water

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:59	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:59	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:59	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:59	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:59	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:59	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*18 - 145*	*01/23/25 20:09*	*01/24/25 06:59*	*1*
DCB Decachlorobiphenyl	*67*		*18 - 145*	*01/23/25 20:09*	*01/24/25 06:59*	*1*
Tetrachloro-m-xylene	*81*		*21 - 124*	*01/23/25 20:09*	*01/24/25 06:59*	*1*
Tetrachloro-m-xylene	*76*		*21 - 124*	*01/23/25 20:09*	*01/24/25 06:59*	*1*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH (C9-C40)	0.40	U	0.40	0.40	mg/L		01/24/25 20:35	01/25/25 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*40 - 140*	*01/24/25 20:35*	*01/25/25 10:21*	*1*
1-Chlorooctadecane	*81*		*40 - 140*	*01/24/25 20:35*	*01/25/25 10:21*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		01/24/25 10:30	01/24/25 14:04	1
Antimony	0.76	U	2.0	0.76	ug/L		01/24/25 10:30	01/24/25 14:04	1
Arsenic	0.89	U	2.0	0.89	ug/L		01/24/25 10:30	01/24/25 14:04	1
Barium	0.91	U	4.0	0.91	ug/L		01/24/25 10:30	01/24/25 14:04	1
Beryllium	0.13	U	0.80	0.13	ug/L		01/24/25 10:30	01/24/25 14:04	1
Cadmium	0.39	U	2.0	0.39	ug/L		01/24/25 10:30	01/24/25 14:04	1
Calcium	**57.9**	**J**	500	53.6	ug/L		01/24/25 10:30	01/24/25 14:04	1
Chromium	2.5	U	4.0	2.5	ug/L		01/24/25 10:30	01/24/25 14:04	1
Cobalt	0.71	U	4.0	0.71	ug/L		01/24/25 10:30	01/24/25 14:04	1
Copper	2.5	U	4.0	2.5	ug/L		01/24/25 10:30	01/24/25 14:04	1
Iron	58.2	U	120	58.2	ug/L		01/24/25 10:30	01/24/25 14:04	1
Lead	0.84	U	1.2	0.84	ug/L		01/24/25 10:30	01/24/25 14:04	1
Magnesium	46.9	U	200	46.9	ug/L		01/24/25 10:30	01/24/25 14:04	1
Manganese	1.5	U	8.0	1.5	ug/L		01/24/25 10:30	01/24/25 14:04	1
Nickel	0.91	U	4.0	0.91	ug/L		01/24/25 10:30	01/24/25 14:04	1
Potassium	112	U	200	112	ug/L		01/24/25 10:30	01/24/25 14:04	1
Selenium	0.59	U	2.5	0.59	ug/L		01/24/25 10:30	01/24/25 14:04	1
Silver	0.29	U	2.0	0.29	ug/L		01/24/25 10:30	01/24/25 14:04	1
Sodium	219	U	500	219	ug/L		01/24/25 10:30	01/24/25 14:04	1
Thallium	0.21	U	0.80	0.21	ug/L		01/24/25 10:30	01/24/25 14:04	1
Vanadium	0.68	U	4.0	0.68	ug/L		01/24/25 10:30	01/24/25 14:04	1
Zinc	6.5	U	16.0	6.5	ug/L		01/24/25 10:30	01/24/25 14:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 14:53	1

Client Sample ID: FB_20250121

Date Collected: 01/21/25 13:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0058	J	0.010	0.0040	mg/L		01/24/25 17:52	01/24/25 21:03	1

Client Sample ID: IA-07-TS

Date Collected: 01/21/25 13:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-9
Matrix: Solid
Percent Solids: 83.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00034	U H	0.0014	0.00034	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,1,2,2-Tetrachloroethane	0.00031	U H	0.0014	0.00031	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00044	U H	0.0014	0.00044	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,1,2-Trichloroethane	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,1-Dichloroethane	0.00030	U H	0.0014	0.00030	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,1-Dichloroethene	0.00033	U H	0.0014	0.00033	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,2,3-Trichlorobenzene	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,2,4-Trichlorobenzene	0.00052	U H	0.0014	0.00052	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,2-Dibromo-3-Chloropropane	0.00067	U H *-	0.0014	0.00067	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,2-Dibromoethane	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,2-Dichlorobenzene	0.00052	U H	0.0014	0.00052	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,2-Dichloroethane	0.00043	U H	0.0014	0.00043	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,2-Dichloropropane	0.00061	U H	0.0014	0.00061	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,3-Dichlorobenzene	0.00053	U H	0.0014	0.00053	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
1,4-Dichlorobenzene	0.00033	U H	0.0014	0.00033	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
2-Butanone (MEK)	0.00053	U H	0.0072	0.00053	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
2-Hexanone	0.0025	U H	0.0072	0.0025	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
4-Methyl-2-pentanone (MIBK)	0.0023	U H	0.0072	0.0023	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Acetone	0.0083	U H	0.0087	0.0083	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Benzene	0.00037	U H	0.0014	0.00037	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Bromodichloromethane	0.00037	U H	0.0014	0.00037	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Bromoform	0.00062	U H	0.0014	0.00062	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Bromomethane	0.0014	U H *+	0.0029	0.0014	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Carbon disulfide	0.00039	U H	0.0014	0.00039	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Carbon tetrachloride	0.00056	U H	0.0014	0.00056	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Chlorobenzene	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Chlorobromomethane	0.00041	U H	0.0014	0.00041	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Chloroethane	0.00076	U H	0.0014	0.00076	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Chloroform	0.0014	U H	0.0014	0.0014	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Chloromethane	0.00063	U H	0.0014	0.00063	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
cis-1,2-Dichloroethene	0.00052	U H	0.0014	0.00052	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
cis-1,3-Dichloropropene	0.00040	U H	0.0014	0.00040	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Cyclohexane	0.00032	U H	0.0014	0.00032	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Dibromochloromethane	0.00028	U H	0.0014	0.00028	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Dichlorodifluoromethane	0.00049	U H	0.0014	0.00049	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Ethylbenzene	0.00029	U H	0.0014	0.00029	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Isopropylbenzene	0.00041	U H	0.0014	0.00041	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Methyl acetate	0.0062	U H	0.0072	0.0062	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Methyl tert-butyl ether	0.00074	U H	0.0014	0.00074	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Methylcyclohexane	0.00072	U H	0.0014	0.00072	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Methylene Chloride	0.0017	U H	0.0029	0.0017	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
m-Xylene & p-Xylene	0.00025	U H	0.0014	0.00025	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-07-TS

Date Collected: 01/21/25 13:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-9

Matrix: Solid
Percent Solids: 83.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.00028	U H	0.0014	0.00028	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Styrene	0.00040	U H	0.0014	0.00040	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Tetrachloroethene	0.00044	U H	0.0014	0.00044	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Toluene	0.00034	U H	0.0014	0.00034	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
trans-1,2-Dichloroethene	0.00036	U H	0.0014	0.00036	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
trans-1,3-Dichloropropene	0.00039	U H	0.0014	0.00039	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Trichloroethene	0.00047	U H	0.0014	0.00047	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Trichlorofluoromethane	0.00059	U H	0.0014	0.00059	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1
Vinyl chloride	0.00079	U H	0.0014	0.00079	mg/Kg	☼	01/22/25 14:04	03/05/25 00:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/22/25 14:04*	*03/05/25 00:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*	*01/22/25 14:04*	*03/05/25 00:56*	*1*
4-Bromofluorobenzene	*110*		*71 - 128*	*01/22/25 14:04*	*03/05/25 00:56*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*01/22/25 14:04*	*03/05/25 00:56*	*1*
Toluene-d8 (Surr)	*108*		*71 - 126*	*01/22/25 14:04*	*03/05/25 00:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.014	U H	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
1,2,4-Trichlorobenzene	0.010	U H	0.039	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
1,2-Dichlorobenzene	0.0067	U H	0.39	0.0067	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
1,2-Diphenylhydrazine	0.016	U H	0.39	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
1,3-Dichlorobenzene	0.012	U H	0.39	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
1,4-Dichlorobenzene	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2,4,5-Trichlorophenol	0.040	U H	0.39	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2,4,6-Trichlorophenol	0.051	U H	0.16	0.051	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2,4-Dichlorophenol	0.025	U H	0.16	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2,4-Dimethylphenol	0.047	U H	0.39	0.047	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2,4-Dinitrophenol	0.19	U H	0.32	0.19	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2,4-Dinitrotoluene	0.043	U H	0.080	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2,6-Dinitrotoluene	0.029	U H	0.080	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2-Chloronaphthalene	0.018	U H	0.39	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2-Chlorophenol	0.014	U H	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2-Methylnaphthalene	0.011	U H	0.39	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2-Methylphenol	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2-Nitroaniline	0.030	U H	0.39	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
2-Nitrophenol	0.040	U H	0.39	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
3,3'-Dichlorobenzidine	0.060	U H	0.16	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
3-Nitroaniline	0.094	U H	0.39	0.094	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
4,6-Dinitro-2-methylphenol	0.16	U H	0.32	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
4-Bromophenyl phenyl ether	0.016	U H	0.39	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
4-Chloro-3-methylphenol	0.022	U H	0.39	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
4-Chloroaniline	0.070	U H	0.39	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
4-Chlorophenyl phenyl ether	0.014	U H	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
4-Methylphenol	0.025	U H	0.39	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
4-Nitroaniline	0.045	U H	0.39	0.045	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
4-Nitrophenol	0.064	U H	0.80	0.064	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1

Client Sample ID: IA-07-TS
Date Collected: 01/21/25 13:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-9
Matrix: Solid
Percent Solids: 83.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	U H	0.39	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Acenaphthylene	0.011	U H	0.39	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Acetophenone	0.019	U H	0.39	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Anthracene	0.012	U H	0.39	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Atrazine	0.023	U H *+	0.16	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Benzaldehyde	**0.066**	**J H**	0.39	0.065	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Benzidine	0.083	U H	0.39	0.083	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Benzo[a]anthracene	0.030	U H	0.039	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Benzo[a]pyrene	**0.033**	**J H**	0.039	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Benzo[b]fluoranthene	**0.061**	**H**	0.039	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Benzo[g,h,i]perylene	**0.036**	**J H**	0.39	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Benzo[k]fluoranthene	**0.022**	**J H**	0.039	0.0077	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
bis (2-chloroisopropyl) ether	0.024	U H	0.39	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Bis(2-chloroethoxy)methane	0.031	U H	0.39	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Bis(2-chloroethyl)ether	0.014	U H	0.039	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Bis(2-ethylhexyl) phthalate	0.021	U H	0.39	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Butyl benzyl phthalate	0.019	U H	0.39	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Caprolactam	0.061	U H	0.39	0.061	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Carbazole	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Chrysene	**0.026**	**J H**	0.39	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Dibenz(a,h)anthracene	0.017	U H	0.039	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Dibenzofuran	0.013	U H	0.39	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Diethyl phthalate	0.013	U H	0.39	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Dimethyl phthalate	0.090	U H	0.39	0.090	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Di-n-butyl phthalate	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Di-n-octyl phthalate	0.021	U H	0.39	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Fluoranthene	**0.031**	**J H**	0.39	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Fluorene	0.012	U H	0.39	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Hexachlorobenzene	0.019	U H	0.039	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Hexachlorobutadiene	0.0084	U H	0.080	0.0084	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Hexachlorocyclopentadiene	0.035	U H *+	0.39	0.035	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Hexachloroethane	0.014	U H	0.039	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Indeno[1,2,3-cd]pyrene	**0.028**	**J H**	0.039	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Isophorone	0.11	U H	0.16	0.11	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Naphthalene	0.0068	U H	0.39	0.0068	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Nitrobenzene	0.022	U H	0.039	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
N-Nitrosodimethylamine	0.037	U H	0.39	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
N-Nitrosodi-n-propylamine	0.029	U H	0.039	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
N-Nitrosodiphenylamine	0.032	U H	0.39	0.032	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Pentachlorophenol	0.081	U H	0.32	0.081	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Phenanthrene	0.016	U H	0.39	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Phenol	0.015	U H	0.39	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1
Pyrene	**0.026**	**J H**	0.39	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 19:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
n-Hexadecanoic acid	*0.46*	*H J N*	*mg/Kg*	☼	*7.40*	*57-10-3*	*03/04/25 08:39*	*03/04/25 19:57*	*1*
Unknown	*0.76*	*H J*	*mg/Kg*	☼	*8.63*	*N/A*	*03/04/25 08:39*	*03/04/25 19:57*	*1*
Unknown	*1.1*	*H J*	*mg/Kg*	☼	*8.96*	*N/A*	*03/04/25 08:39*	*03/04/25 19:57*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*2.3*	*H J N*	*mg/Kg*	☼	*9.06*	*1740-19-8*	*03/04/25 08:39*	*03/04/25 19:57*	*1*

Client Sample ID: IA-07-TS
Date Collected: 01/21/25 13:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-9
Matrix: Solid
Percent Solids: 83.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Docosanoic acid	0.61	H J N	mg/Kg	☼	9.37	112-85-6	03/04/25 08:39	03/04/25 19:57	1
Unknown	0.38	H J	mg/Kg	☼	9.46	N/A	03/04/25 08:39	03/04/25 19:57	1
1-Nonadecene	0.66	H J N	mg/Kg	☼	9.81	18435-45-5	03/04/25 08:39	03/04/25 19:57	1
Tetracosanoic acid	0.75	H J N	mg/Kg	☼	10.03	557-59-5	03/04/25 08:39	03/04/25 19:57	1
Z-5-Nonadecene	0.41	H J N	mg/Kg	☼	10.49	1000131-11-8	03/04/25 08:39	03/04/25 19:57	1
Unknown	0.33	H J	mg/Kg	☼	12.54	N/A	03/04/25 08:39	03/04/25 19:57	1
Stigmast-4-en-3-one	0.64	H J N	mg/Kg	☼	12.74	1058-61-3	03/04/25 08:39	03/04/25 19:57	1
Friedelan-3-one	1.5	H J N	mg/Kg	☼	13.30	559-74-0	03/04/25 08:39	03/04/25 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		24 - 137	03/04/25 08:39	03/04/25 19:57	1
2-Fluorobiphenyl	87		38 - 128	03/04/25 08:39	03/04/25 19:57	1
2-Fluorophenol (Surr)	82		31 - 133	03/04/25 08:39	03/04/25 19:57	1
Nitrobenzene-d5 (Surr)	81		31 - 120	03/04/25 08:39	03/04/25 19:57	1
Phenol-d5 (Surr)	83		35 - 132	03/04/25 08:39	03/04/25 19:57	1
Terphenyl-d14 (Surr)	88		44 - 147	03/04/25 08:39	03/04/25 19:57	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0014	U H	0.0080	0.0014	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
4,4'-DDE	0.00094	U H	0.0080	0.00094	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
4,4'-DDT	0.0015	U H	0.0080	0.0015	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Aldrin	0.0012	U H	0.0080	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
alpha-BHC	0.00081	U H	0.0024	0.00081	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
beta-BHC	0.00090	U H	0.0024	0.00090	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
delta-BHC	0.00049	U H	0.0024	0.00049	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Dieldrin	0.0010	U H	0.0024	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Endosulfan I	0.0012	U H	0.0080	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Endosulfan II	0.0021	U H	0.0080	0.0021	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Endosulfan sulfate	0.0010	U H	0.0080	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Endrin	0.0011	U H	0.0080	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Endrin aldehyde	0.0019	U H	0.0080	0.0019	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Endrin ketone	0.0016	U H	0.0080	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
gamma-BHC (Lindane)	0.00074	U H	0.0024	0.00074	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Heptachlor	0.00094	U H	0.0080	0.00094	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Heptachlor epoxide	0.0012	U H	0.0080	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Methoxychlor	0.0018	U H	0.0080	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Toxaphene	0.029	U H	0.080	0.029	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1
Chlordane (n.o.s.)	0.019	U H	0.080	0.019	mg/Kg	☼	03/05/25 10:29	03/05/25 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	38		17 - 150	03/05/25 10:29	03/05/25 23:34	1
DCB Decachlorobiphenyl	34		17 - 150	03/05/25 10:29	03/05/25 23:34	1
Tetrachloro-m-xylene	50		21 - 150	03/05/25 10:29	03/05/25 23:34	1
Tetrachloro-m-xylene	49		21 - 150	03/05/25 10:29	03/05/25 23:34	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1

Client Sample ID: IA-07-TS
Date Collected: 01/21/25 13:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-9
Matrix: Solid
Percent Solids: 83.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1
Aroclor 1232	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1
Aroclor 1242	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1
Aroclor 1248	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1
Aroclor 1254	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1
Aroclor 1260	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1
Aroclor-1262	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1
Aroclor 1268	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1
Polychlorinated biphenyls, Total	0.021	U	0.080	0.021	mg/Kg	☼	03/05/25 10:34	03/06/25 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:12*	*1*
DCB Decachlorobiphenyl	*46*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:12*	*1*
Tetrachloro-m-xylene	*64*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:12*	*1*
Tetrachloro-m-xylene	*62*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:12*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**22**		2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	**12**		2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	**35**		2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.4	U H	2.4	2.4	mg/Kg	☼	03/05/25 10:24	03/06/25 00:48	1
C9-C12 Aliphatics	3.6	U H	3.6	3.6	mg/Kg	☼	03/05/25 10:24	03/06/25 00:48	1
C16-C21 Aliphatics	2.4	U H	2.4	2.4	mg/Kg	☼	03/05/25 10:24	03/06/25 00:48	1
C21-C40 Aliphatics	**12**	**H**	8.4	8.4	mg/Kg	☼	03/05/25 10:24	03/06/25 00:48	1
C16-C21 Aromatics	6.0	U H	6.0	6.0	mg/Kg	☼	03/05/25 10:24	03/06/25 00:48	1
C10-C12 Aromatics	**2.9**	**H**	2.4	2.4	mg/Kg	☼	03/05/25 10:24	03/06/25 00:48	1
C12-C16 Aromatics	3.6	U H	3.6	3.6	mg/Kg	☼	03/05/25 10:24	03/06/25 00:48	1
C21-C36 Aromatic	**20**	**H**	9.6	9.6	mg/Kg	☼	03/05/25 10:24	03/06/25 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:48*	*1*
2-Fluorobiphenyl	*100*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:48*	*1*
2-Bromonaphthalene	*87*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:48*	*1*
1-Chlorooctadecane	*58*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:48*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4240**		21.8	6.0	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Antimony	0.16	U	1.1	0.16	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Arsenic	**1.0**	**J**	1.1	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Barium	**10.2**		2.2	0.16	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Beryllium	0.062	U	0.44	0.062	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Cadmium	0.12	U	1.1	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Calcium	**2660**		109	44.3	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Chromium	**7.3**		2.2	0.99	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Cobalt	**0.63**	**J**	2.2	0.16	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Copper	**8.7**		2.2	0.40	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1

Client Sample ID: IA-07-TS

Lab Sample ID: 460-319135-9

Date Collected: 01/21/25 13:40

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 83.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3100		65.3	22.0	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Lead	7.9		0.65	0.22	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Magnesium	350		109	11.1	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Manganese	21.2		4.4	0.44	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Nickel	2.5		2.2	0.51	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Potassium	270		109	17.6	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Selenium	0.14	U	1.4	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Silver	0.097	U	0.44	0.097	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Sodium	49.7	U	109	49.7	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Thallium	0.045	U	0.44	0.045	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Vanadium	7.5		2.2	0.22	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1
Zinc	20.3		8.7	3.3	mg/Kg	☼	03/05/25 07:28	03/05/25 17:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	H	0.019	0.0091	mg/Kg	☼	03/05/25 01:20	03/05/25 06:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.15	J H	0.26	0.14	mg/Kg	☼	03/06/25 10:06	03/06/25 13:43	1
Percent Moisture (EPA Moisture)	16.5		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	83.5		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: IA-07-CS-4

Lab Sample ID: 460-319135-10

Date Collected: 01/21/25 13:50

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 96.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U H	0.0010	0.00024	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,1,2,2-Tetrachloroethane	0.00022	U H	0.0010	0.00022	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U H	0.0010	0.00031	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,1,2-Trichloroethane	0.00018	U H	0.0010	0.00018	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,1-Dichloroethane	0.00021	U H	0.0010	0.00021	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,1-Dichloroethene	0.00023	U H	0.0010	0.00023	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,2,3-Trichlorobenzene	0.00019	U H	0.0010	0.00019	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,2,4-Trichlorobenzene	0.00037	U H	0.0010	0.00037	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,2-Dibromo-3-Chloropropane	0.00047	U H *-	0.0010	0.00047	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,2-Dibromoethane	0.00018	U H	0.0010	0.00018	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,2-Dichlorobenzene	0.00037	U H	0.0010	0.00037	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,2-Dichloroethane	0.00030	U H	0.0010	0.00030	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,2-Dichloropropane	0.00043	U H	0.0010	0.00043	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,3-Dichlorobenzene	0.00037	U H	0.0010	0.00037	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
1,4-Dichlorobenzene	0.00023	U H	0.0010	0.00023	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
2-Butanone (MEK)	0.00038	U H	0.0051	0.00038	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
2-Hexanone	0.0018	U H	0.0051	0.0018	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
4-Methyl-2-pentanone (MIBK)	0.0016	U H	0.0051	0.0016	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Acetone	0.0059	U H	0.0062	0.0059	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Benzene	0.00026	U H	0.0010	0.00026	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Bromodichloromethane	0.00026	U H	0.0010	0.00026	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1

Client Sample ID: IA-07-CS-4
Date Collected: 01/21/25 13:50
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-10
Matrix: Solid
Percent Solids: 96.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.00044	U H	0.0010	0.00044	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Bromomethane	0.0010	U H *+	0.0021	0.0010	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Carbon disulfide	0.00027	U H	0.0010	0.00027	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Carbon tetrachloride	0.00040	U H	0.0010	0.00040	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Chlorobenzene	0.00018	U H	0.0010	0.00018	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Chlorobromomethane	0.00029	U H	0.0010	0.00029	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Chloroethane	0.00054	U H	0.0010	0.00054	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Chloroform	0.0010	U H	0.0010	0.0010	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Chloromethane	0.00045	U H	0.0010	0.00045	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
cis-1,2-Dichloroethene	0.00037	U H	0.0010	0.00037	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
cis-1,3-Dichloropropene	0.00028	U H	0.0010	0.00028	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Cyclohexane	0.00023	U H	0.0010	0.00023	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Dibromochloromethane	0.00020	U H	0.0010	0.00020	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Dichlorodifluoromethane	0.00035	U H	0.0010	0.00035	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Ethylbenzene	0.00020	U H	0.0010	0.00020	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Isopropylbenzene	0.00029	U H	0.0010	0.00029	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Methyl acetate	0.0044	U H	0.0051	0.0044	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Methyl tert-butyl ether	0.00053	U H	0.0010	0.00053	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Methylcyclohexane	0.00051	U H	0.0010	0.00051	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Methylene Chloride	0.0012	U H	0.0021	0.0012	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
m-Xylene & p-Xylene	0.00018	U H	0.0010	0.00018	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
o-Xylene	0.00020	U H	0.0010	0.00020	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Styrene	0.00029	U H	0.0010	0.00029	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Tetrachloroethene	0.00031	U H	0.0010	0.00031	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Toluene	0.00024	U H	0.0010	0.00024	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
trans-1,2-Dichloroethene	0.00025	U H	0.0010	0.00025	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
trans-1,3-Dichloropropene	0.00027	U H	0.0010	0.00027	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Trichloroethene	0.00033	U H	0.0010	0.00033	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Trichlorofluoromethane	0.00042	U H	0.0010	0.00042	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1
Vinyl chloride	0.00056	U H	0.0010	0.00056	mg/Kg	☼	01/22/25 14:04	03/05/25 01:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/22/25 14:04*	*03/05/25 01:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/22/25 14:04*	*03/05/25 01:18*	*1*
4-Bromofluorobenzene	*105*		*71 - 128*	*01/22/25 14:04*	*03/05/25 01:18*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*	*01/22/25 14:04*	*03/05/25 01:18*	*1*
Toluene-d8 (Surr)	*108*		*71 - 126*	*01/22/25 14:04*	*03/05/25 01:18*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
1,2,4-Trichlorobenzene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
1,2-Dichlorobenzene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2,4,5-Trichlorophenol	0.035	U H	0.34	0.035	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2,4,6-Trichlorophenol	0.044	U H	0.14	0.044	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-07-CS-4
Date Collected: 01/21/25 13:50
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-10
Matrix: Solid
Percent Solids: 96.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2,4-Dimethylphenol	0.041	U H	0.34	0.041	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2,4-Dinitrophenol	0.17	U H	0.27	0.17	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2,4-Dinitrotoluene	0.037	U H	0.069	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2,6-Dinitrotoluene	0.025	U H	0.069	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2-Methylnaphthalene	0.0095	U H	0.34	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
3,3'-Dichlorobenzidine	0.052	U H	0.14	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
3-Nitroaniline	0.081	U H	0.34	0.081	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
4-Bromophenyl phenyl ether	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
4-Chloroaniline	0.061	U H	0.34	0.061	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
4-Nitrophenol	0.056	U H	0.69	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Acenaphthene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Acenaphthylene	0.0098	U H	0.34	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Atrazine	0.020	U H *+	0.14	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Benzaldehyde	0.056	U H	0.34	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Benzidine	0.072	U H	0.34	0.072	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Benzo[a]anthracene	0.026	U H	0.034	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Benzo[a]pyrene	0.0091	U H	0.034	0.0091	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Benzo[b]fluoranthene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Benzo[g,h,i]perylene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Benzo[k]fluoranthene	0.0067	U H	0.034	0.0067	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
bis (2-chloroisopropyl) ether	0.020	U H	0.34	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Bis(2-chloroethoxy)methane	0.027	U H	0.34	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Caprolactam	0.053	U H	0.34	0.053	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Dimethyl phthalate	0.077	U H	0.34	0.077	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Fluorene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1

Client Sample ID: IA-07-CS-4

Date Collected: 01/21/25 13:50
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-10

Matrix: Solid
Percent Solids: 96.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Hexachlorobutadiene	0.0073	U H	0.069	0.0073	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Isophorone	0.099	U H	0.14	0.099	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Naphthalene	0.0059	U H	0.34	0.0059	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
N-Nitrosodimethylamine	0.032	U H	0.34	0.032	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
N-Nitrosodi-n-propylamine	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Pentachlorophenol	0.070	U H	0.27	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Phenanthrene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Phenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1
Pyrene	**0.0093**	**J H**	0.34	0.0085	mg/Kg	☼	03/04/25 08:39	03/04/25 18:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 18:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*24 - 137*	*03/04/25 08:39*	*03/04/25 18:40*	*1*
2-Fluorobiphenyl	*81*		*38 - 128*	*03/04/25 08:39*	*03/04/25 18:40*	*1*
2-Fluorophenol (Surr)	*85*		*31 - 133*	*03/04/25 08:39*	*03/04/25 18:40*	*1*
Nitrobenzene-d5 (Surr)	*83*		*31 - 120*	*03/04/25 08:39*	*03/04/25 18:40*	*1*
Phenol-d5 (Surr)	*76*		*35 - 132*	*03/04/25 08:39*	*03/04/25 18:40*	*1*
Terphenyl-d14 (Surr)	*84*		*44 - 147*	*03/04/25 08:39*	*03/04/25 18:40*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0069	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
4,4'-DDE	0.00082	U H	0.0069	0.00082	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
4,4'-DDT	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Aldrin	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
alpha-BHC	0.00070	U H	0.0021	0.00070	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
beta-BHC	0.00077	U H	0.0021	0.00077	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
delta-BHC	0.00042	U H	0.0021	0.00042	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Dieldrin	0.00090	U H	0.0021	0.00090	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Endosulfan I	0.0011	U H	0.0069	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Endosulfan II	0.0018	U H	0.0069	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Endosulfan sulfate	0.00087	U H	0.0069	0.00087	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Endrin	0.00099	U H	0.0069	0.00099	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Endrin aldehyde	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Endrin ketone	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
gamma-BHC (Lindane)	0.00064	U H	0.0021	0.00064	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Heptachlor	0.00082	U H	0.0069	0.00082	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Heptachlor epoxide	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Methoxychlor	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Toxaphene	0.025	U H	0.069	0.025	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1
Chlordane (n.o.s.)	0.017	U H	0.069	0.017	mg/Kg	☼	03/05/25 10:29	03/05/25 23:46	1

Client Sample ID: IA-07-CS-4

Date Collected: 01/21/25 13:50
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-10

Matrix: Solid
Percent Solids: 96.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*17 - 150*	*03/05/25 10:29*	*03/05/25 23:46*	*1*
DCB Decachlorobiphenyl	*64*		*17 - 150*	*03/05/25 10:29*	*03/05/25 23:46*	*1*
Tetrachloro-m-xylene	*85*		*21 - 150*	*03/05/25 10:29*	*03/05/25 23:46*	*1*
Tetrachloro-m-xylene	*85*		*21 - 150*	*03/05/25 10:29*	*03/05/25 23:46*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Aroclor 1221	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Aroclor 1232	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Aroclor 1242	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Aroclor 1248	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Aroclor 1254	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Aroclor 1260	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Aroclor-1262	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Aroclor 1268	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1
Polychlorinated biphenyls, Total	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/06/25 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:28*	*1*
DCB Decachlorobiphenyl	*77*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:28*	*1*
Tetrachloro-m-xylene	*106*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:28*	*1*
Tetrachloro-m-xylene	*103*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:28*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/06/25 01:04	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/06/25 01:04	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/06/25 01:04	1
C21-C40 Aliphatics	7.2	U H	7.2	7.2	mg/Kg	☼	03/05/25 10:24	03/06/25 01:04	1
C16-C21 Aromatics	5.2	U H	5.2	5.2	mg/Kg	☼	03/05/25 10:24	03/06/25 01:04	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/06/25 01:04	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/06/25 01:04	1
C21-C36 Aromatic	8.2	U H	8.2	8.2	mg/Kg	☼	03/05/25 10:24	03/06/25 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*40 - 140*	*03/05/25 10:24*	*03/06/25 01:04*	*1*
2-Fluorobiphenyl	*90*		*40 - 140*	*03/05/25 10:24*	*03/06/25 01:04*	*1*
2-Bromonaphthalene	*79*		*40 - 140*	*03/05/25 10:24*	*03/06/25 01:04*	*1*
1-Chlorooctadecane	*77*		*40 - 140*	*03/05/25 10:24*	*03/06/25 01:04*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1310**		18.1	5.0	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Antimony	0.13	U	0.91	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1

Client Sample ID: IA-07-CS-4

Date Collected: 01/21/25 13:50
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-10

Matrix: Solid
Percent Solids: 96.7

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.15**	**J**	0.91	0.093	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Barium	**1.7**	**J**	1.8	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Beryllium	0.052	U	0.36	0.052	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Cadmium	0.10	U	0.91	0.10	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Calcium	**168**		90.7	36.9	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Chromium	**2.3**		1.8	0.82	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Cobalt	0.13	U	1.8	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Copper	**1.4**	**J**	1.8	0.33	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Iron	**355**		54.4	18.3	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Lead	**1.7**		0.54	0.18	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Magnesium	**33.7**	**J**	90.7	9.2	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Manganese	**2.5**	**J**	3.6	0.37	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Nickel	**0.77**	**J**	1.8	0.43	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Potassium	**59.6**	**J**	90.7	14.7	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Silver	0.081	U	0.36	0.081	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Sodium	41.4	U	90.7	41.4	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Vanadium	**1.4**	**J**	1.8	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1
Zinc	2.8	U	7.3	2.8	mg/Kg	☼	03/05/25 07:28	03/05/25 17:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	U H	0.016	0.0076	mg/Kg	☼	03/05/25 01:20	03/05/25 06:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/06/25 10:06	03/06/25 13:44	1
Percent Moisture (EPA Moisture)	**3.3**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**96.7**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: IA-07-CS-8

Date Collected: 01/21/25 14:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-11

Matrix: Solid
Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00029	U H	0.0013	0.00029	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,1,2,2-Tetrachloroethane	0.00027	U H	0.0013	0.00027	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00038	U H	0.0013	0.00038	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,1,2-Trichloroethane	0.00022	U H	0.0013	0.00022	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,1-Dichloroethane	0.00026	U H	0.0013	0.00026	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,1-Dichloroethene	0.00028	U H	0.0013	0.00028	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,2,3-Trichlorobenzene	0.00023	U H	0.0013	0.00023	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,2,4-Trichlorobenzene	0.00045	U H	0.0013	0.00045	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,2-Dibromo-3-Chloropropane	0.00058	U H *-	0.0013	0.00058	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,2-Dibromoethane	0.00023	U H	0.0013	0.00023	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,2-Dichlorobenzene	0.00045	U H	0.0013	0.00045	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,2-Dichloroethane	0.00037	U H	0.0013	0.00037	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,2-Dichloropropane	0.00053	U H	0.0013	0.00053	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-07-CS-8
Date Collected: 01/21/25 14:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-11
Matrix: Solid
Percent Solids: 89.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00046	U H	0.0013	0.00046	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
1,4-Dichlorobenzene	0.00028	U H	0.0013	0.00028	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
2-Butanone (MEK)	0.00046	U H	0.0063	0.00046	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
2-Hexanone	0.0021	U H	0.0063	0.0021	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
4-Methyl-2-pentanone (MIBK)	0.0020	U H	0.0063	0.0020	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Acetone	0.0072	U H	0.0075	0.0072	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Benzene	0.00032	U H	0.0013	0.00032	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Bromodichloromethane	0.00032	U H	0.0013	0.00032	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Bromoform	0.00053	U H	0.0013	0.00053	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Bromomethane	0.0013	U H *+	0.0025	0.0013	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Carbon disulfide	0.00033	U H	0.0013	0.00033	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Carbon tetrachloride	0.00049	U H	0.0013	0.00049	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Chlorobenzene	0.00022	U H	0.0013	0.00022	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Chlorobromomethane	0.00035	U H	0.0013	0.00035	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Chloroethane	0.00066	U H	0.0013	0.00066	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Chloroform	0.0012	U H	0.0013	0.0012	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Chloromethane	0.00055	U H	0.0013	0.00055	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
cis-1,2-Dichloroethene	0.00045	U H	0.0013	0.00045	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
cis-1,3-Dichloropropene	0.00034	U H	0.0013	0.00034	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Cyclohexane	0.00028	U H	0.0013	0.00028	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Dibromochloromethane	0.00024	U H	0.0013	0.00024	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Dichlorodifluoromethane	0.00042	U H	0.0013	0.00042	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Ethylbenzene	0.00025	U H	0.0013	0.00025	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Isopropylbenzene	0.00036	U H	0.0013	0.00036	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Methyl acetate	0.0054	U H	0.0063	0.0054	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Methyl tert-butyl ether	0.00064	U H	0.0013	0.00064	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Methylcyclohexane	0.00063	U H	0.0013	0.00063	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Methylene Chloride	0.0014	U H	0.0025	0.0014	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
m-Xylene & p-Xylene	0.00022	U H	0.0013	0.00022	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
o-Xylene	0.00024	U H	0.0013	0.00024	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Styrene	0.00035	U H	0.0013	0.00035	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Tetrachloroethene	0.00038	U H	0.0013	0.00038	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Toluene	0.00029	U H	0.0013	0.00029	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
trans-1,2-Dichloroethene	0.00031	U H	0.0013	0.00031	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
trans-1,3-Dichloropropene	0.00033	U H	0.0013	0.00033	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Trichloroethene	0.00040	U H	0.0013	0.00040	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Trichlorofluoromethane	0.00051	U H	0.0013	0.00051	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1
Vinyl chloride	0.00069	U H	0.0013	0.00069	mg/Kg	☼	01/22/25 14:05	03/05/25 01:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/22/25 14:05*	*03/05/25 01:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*	*01/22/25 14:05*	*03/05/25 01:41*	*1*
4-Bromofluorobenzene	*109*		*71 - 128*	*01/22/25 14:05*	*03/05/25 01:41*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 150*	*01/22/25 14:05*	*03/05/25 01:41*	*1*
Toluene-d8 (Surr)	*103*		*71 - 126*	*01/22/25 14:05*	*03/05/25 01:41*	*1*

Client Sample ID: IA-07-CS-8
Date Collected: 01/21/25 14:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-11
Matrix: Solid
Percent Solids: 89.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.013	U H	0.37	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
1,2,4-Trichlorobenzene	0.0094	U H	0.037	0.0094	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
1,2-Dichlorobenzene	0.0063	U H	0.37	0.0063	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
1,2-Diphenylhydrazine	0.014	U H	0.37	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
1,3-Dichlorobenzene	0.011	U H	0.37	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
1,4-Dichlorobenzene	0.014	U H	0.37	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2,4,5-Trichlorophenol	0.037	U H	0.37	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2,4,6-Trichlorophenol	0.047	U H	0.15	0.047	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2,4-Dichlorophenol	0.024	U H	0.15	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2,4-Dimethylphenol	0.044	U H	0.37	0.044	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2,4-Dinitrophenol	0.18	U H	0.29	0.18	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2,4-Dinitrotoluene	0.039	U H	0.074	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2,6-Dinitrotoluene	0.027	U H	0.074	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2-Chloronaphthalene	0.017	U H	0.37	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2-Chlorophenol	0.013	U H	0.37	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2-Methylnaphthalene	0.010	U H	0.37	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2-Methylphenol	0.014	U H	0.37	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2-Nitroaniline	0.028	U H	0.37	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
2-Nitrophenol	0.037	U H	0.37	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
3,3'-Dichlorobenzidine	0.055	U H	0.15	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
3-Nitroaniline	0.087	U H	0.37	0.087	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
4,6-Dinitro-2-methylphenol	0.15	U H	0.29	0.15	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
4-Bromophenyl phenyl ether	0.015	U H	0.37	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
4-Chloro-3-methylphenol	0.021	U H	0.37	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
4-Chloroaniline	0.065	U H	0.37	0.065	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
4-Chlorophenyl phenyl ether	0.013	U H	0.37	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
4-Methylphenol	0.023	U H	0.37	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
4-Nitroaniline	0.042	U H	0.37	0.042	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
4-Nitrophenol	0.060	U H	0.74	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Acenaphthene	0.010	U H	0.37	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Acenaphthylene	0.010	U H	0.37	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Acetophenone	0.018	U H	0.37	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Anthracene	0.011	U H	0.37	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Atrazine	0.022	U H *+	0.15	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Benzaldehyde	0.061	U H	0.37	0.061	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Benzidine	0.077	U H	0.37	0.077	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Benzo[a]anthracene	0.028	U H	0.037	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Benzo[a]pyrene	0.0098	U H	0.037	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Benzo[b]fluoranthene	0.0095	U H	0.037	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Benzo[g,h,i]perylene	0.011	U H	0.37	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Benzo[k]fluoranthene	0.0072	U H	0.037	0.0072	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
bis (2-chloroisopropyl) ether	0.022	U H	0.37	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Bis(2-chloroethoxy)methane	0.029	U H	0.37	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Bis(2-chloroethyl)ether	0.013	U H	0.037	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Bis(2-ethylhexyl) phthalate	0.019	U H	0.37	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Butyl benzyl phthalate	0.017	U H	0.37	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Caprolactam	0.057	U H	0.37	0.057	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Carbazole	0.014	U H	0.37	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Chrysene	0.015	U H	0.37	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1

Client Sample ID: IA-07-CS-8

Date Collected: 01/21/25 14:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-11

Matrix: Solid
Percent Solids: 89.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.016	U H	0.037	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Dibenzofuran	0.012	U H	0.37	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Diethyl phthalate	0.012	U H	0.37	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Dimethyl phthalate	0.083	U H	0.37	0.083	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Di-n-butyl phthalate	0.014	U H	0.37	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Di-n-octyl phthalate	0.019	U H	0.37	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Fluoranthene	0.013	U H	0.37	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Fluorene	0.011	U H	0.37	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Hexachlorobenzene	0.017	U H	0.037	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Hexachlorobutadiene	0.0078	U H	0.074	0.0078	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Hexachlorocyclopentadiene	0.032	U H *+	0.37	0.032	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Hexachloroethane	0.013	U H	0.037	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Indeno[1,2,3-cd]pyrene	0.014	U H	0.037	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Isophorone	0.11	U H	0.15	0.11	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Naphthalene	0.0063	U H	0.37	0.0063	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Nitrobenzene	0.020	U H	0.037	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
N-Nitrosodimethylamine	0.034	U H	0.37	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
N-Nitrosodi-n-propylamine	0.027	U H	0.037	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
N-Nitrosodiphenylamine	0.030	U H	0.37	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Pentachlorophenol	0.075	U H	0.29	0.075	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Phenanthrene	0.015	U H	0.37	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Phenol	0.013	U H	0.37	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1
Pyrene	0.0091	U H	0.37	0.0091	mg/Kg	☼	03/04/25 08:39	03/04/25 18:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.32*	*H J N*	*mg/Kg*	☼	*9.05*	*1740-19-8*	*03/04/25 08:39*	*03/04/25 18:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*24 - 137*	*03/04/25 08:39*	*03/04/25 18:59*	*1*
2-Fluorobiphenyl	*80*		*38 - 128*	*03/04/25 08:39*	*03/04/25 18:59*	*1*
2-Fluorophenol (Surr)	*81*		*31 - 133*	*03/04/25 08:39*	*03/04/25 18:59*	*1*
Nitrobenzene-d5 (Surr)	*84*		*31 - 120*	*03/04/25 08:39*	*03/04/25 18:59*	*1*
Phenol-d5 (Surr)	*78*		*35 - 132*	*03/04/25 08:39*	*03/04/25 18:59*	*1*
Terphenyl-d14 (Surr)	*82*		*44 - 147*	*03/04/25 08:39*	*03/04/25 18:59*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0013	U H	0.0074	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
4,4'-DDE	0.00088	U H	0.0074	0.00088	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
4,4'-DDT	0.0014	U H	0.0074	0.0014	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Aldrin	0.0011	U H	0.0074	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
alpha-BHC	0.00076	U H	0.0022	0.00076	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
beta-BHC	0.00083	U H	0.0022	0.00083	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
delta-BHC	0.00046	U H	0.0022	0.00046	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Dieldrin	0.00097	U H	0.0022	0.00097	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Endosulfan I	0.0011	U H	0.0074	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Endosulfan II	0.0019	U H	0.0074	0.0019	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Endosulfan sulfate	0.00093	U H	0.0074	0.00093	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Endrin	0.0011	U H	0.0074	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1

Client Sample ID: IA-07-CS-8
Date Collected: 01/21/25 14:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-11
Matrix: Solid
Percent Solids: 89.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	0.0018	U H	0.0074	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Endrin ketone	0.0014	U H	0.0074	0.0014	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
gamma-BHC (Lindane)	0.00069	U H	0.0022	0.00069	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Heptachlor	0.00088	U H	0.0074	0.00088	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Heptachlor epoxide	0.0011	U H	0.0074	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Methoxychlor	0.0017	U H	0.0074	0.0017	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Toxaphene	0.027	U H	0.074	0.027	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1
Chlordane (n.o.s.)	0.018	U H	0.074	0.018	mg/Kg	☼	03/05/25 10:29	03/05/25 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*17 - 150*	*03/05/25 10:29*	*03/05/25 23:59*	*1*
DCB Decachlorobiphenyl	*46*		*17 - 150*	*03/05/25 10:29*	*03/05/25 23:59*	*1*
Tetrachloro-m-xylene	*68*		*21 - 150*	*03/05/25 10:29*	*03/05/25 23:59*	*1*
Tetrachloro-m-xylene	*68*		*21 - 150*	*03/05/25 10:29*	*03/05/25 23:59*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Aroclor 1221	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Aroclor 1232	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Aroclor 1242	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Aroclor 1248	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Aroclor 1254	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Aroclor 1260	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Aroclor-1262	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Aroclor 1268	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1
Polychlorinated biphenyls, Total	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/06/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:45*	*1*
DCB Decachlorobiphenyl	*59*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:45*	*1*
Tetrachloro-m-xylene	*83*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:45*	*1*
Tetrachloro-m-xylene	*81*		*20 - 150*	*03/05/25 10:34*	*03/06/25 00:45*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.2	U H	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/06/25 01:19	1
C9-C12 Aliphatics	3.3	U H	3.3	3.3	mg/Kg	☼	03/05/25 10:24	03/06/25 01:19	1
C16-C21 Aliphatics	2.2	U H	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/06/25 01:19	1
C21-C40 Aliphatics	7.8	U H	7.8	7.8	mg/Kg	☼	03/05/25 10:24	03/06/25 01:19	1
C16-C21 Aromatics	5.6	U H	5.6	5.6	mg/Kg	☼	03/05/25 10:24	03/06/25 01:19	1
C10-C12 Aromatics	2.2	U H	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/06/25 01:19	1
C12-C16 Aromatics	3.3	U H	3.3	3.3	mg/Kg	☼	03/05/25 10:24	03/06/25 01:19	1
C21-C36 Aromatic	8.9	U H	8.9	8.9	mg/Kg	☼	03/05/25 10:24	03/06/25 01:19	1

Client Sample ID: IA-07-CS-8

Lab Sample ID: 460-319135-11

Date Collected: 01/21/25 14:00
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 89.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*40 - 140*	*03/05/25 10:24*	*03/06/25 01:19*	*1*
2-Fluorobiphenyl	*102*		*40 - 140*	*03/05/25 10:24*	*03/06/25 01:19*	*1*
2-Bromonaphthalene	*90*		*40 - 140*	*03/05/25 10:24*	*03/06/25 01:19*	*1*
1-Chlorooctadecane	*61*		*40 - 140*	*03/05/25 10:24*	*03/06/25 01:19*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4690**		21.0	5.8	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Antimony	0.15	U	1.1	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Arsenic	**0.76**	**J**	1.1	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Barium	**3.8**		2.1	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Beryllium	0.060	U	0.42	0.060	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Cadmium	0.12	U	1.1	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Calcium	**105**		105	42.7	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Chromium	**6.9**		2.1	0.95	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Cobalt	**0.27**	**J**	2.1	0.16	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Copper	**3.2**		2.1	0.39	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Iron	**2400**		63.0	21.2	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Lead	**2.3**		0.63	0.21	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Magnesium	**73.8**	**J**	105	10.7	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Manganese	**3.6**	**J**	4.2	0.42	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Nickel	**1.3**	**J**	2.1	0.49	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Potassium	**155**		105	17.0	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Selenium	0.13	U	1.3	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Silver	0.093	U	0.42	0.093	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Sodium	48.0	U	105	48.0	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Thallium	0.043	U	0.42	0.043	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Vanadium	**6.4**		2.1	0.22	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1
Zinc	3.2	U	8.4	3.2	mg/Kg	☼	03/05/25 07:28	03/05/25 17:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**	**H**	0.017	0.0081	mg/Kg	☼	03/05/25 01:20	03/05/25 06:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/06/25 10:06	03/06/25 13:45	1
Percent Moisture (EPA Moisture)	**10.2**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**89.8**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: IA-06-TS

Lab Sample ID: 460-319135-12

Date Collected: 01/21/25 14:30
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 98.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,1,2-Trichloroethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,1-Dichloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1

Client Sample ID: IA-06-TS
Date Collected: 01/21/25 14:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-12
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,2-Dibromo-3-Chloropropane	0.00048	U *-	0.0010	0.00048	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,2-Dibromoethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,2-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,2-Dichloroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,2-Dichloropropane	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,3-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
1,4-Dichlorobenzene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
2-Butanone (MEK)	0.00038	U	0.0052	0.00038	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
2-Hexanone	0.0018	U	0.0052	0.0018	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0052	0.0016	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Acetone	0.0060	U	0.0063	0.0060	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Benzene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Bromodichloromethane	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Bromoform	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Bromomethane	0.0010	U	0.0021	0.0010	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Carbon disulfide	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Chlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Chlorobromomethane	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Chloroethane	0.00055	U	0.0010	0.00055	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Chloroform	0.0010	U	0.0010	0.0010	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Chloromethane	0.00045	U	0.0010	0.00045	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
cis-1,3-Dichloropropene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Cyclohexane	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Dibromochloromethane	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Isopropylbenzene	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Methyl acetate	0.0045	U	0.0052	0.0045	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Methyl tert-butyl ether	0.00054	U	0.0010	0.00054	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Methylcyclohexane	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
m-Xylene & p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Styrene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Tetrachloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
trans-1,2-Dichloroethene	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
trans-1,3-Dichloropropene	0.00028	U *-	0.0010	0.00028	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Trichloroethene	0.00034	U	0.0010	0.00034	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1
Vinyl chloride	0.00057	U	0.0010	0.00057	mg/Kg	☼	01/22/25 14:05	01/27/25 12:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:05*	*01/27/25 12:34*	*1*

Client Sample ID: IA-06-TS

Date Collected: 01/21/25 14:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-12

Matrix: Solid
Percent Solids: 98.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 138*	*01/22/25 14:05*	*01/27/25 12:34*	*1*
4-Bromofluorobenzene	*96*		*71 - 128*	*01/22/25 14:05*	*01/27/25 12:34*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*	*01/22/25 14:05*	*01/27/25 12:34*	*1*
Toluene-d8 (Surr)	*97*		*71 - 126*	*01/22/25 14:05*	*01/27/25 12:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2-Methylnaphthalene	0.0094	U *-	0.33	0.0094	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Benzo[b]fluoranthene	0.0087	U	0.033	0.0087	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1

Client Sample ID: IA-06-TS
Date Collected: 01/21/25 14:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-12
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/23/25 21:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/23/25 21:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*24 - 137*	*01/23/25 09:13*	*01/23/25 21:43*	*1*
2-Fluorobiphenyl	*81*		*38 - 128*	*01/23/25 09:13*	*01/23/25 21:43*	*1*
2-Fluorophenol (Surr)	*77*		*31 - 133*	*01/23/25 09:13*	*01/23/25 21:43*	*1*
Nitrobenzene-d5 (Surr)	*74*		*31 - 120*	*01/23/25 09:13*	*01/23/25 21:43*	*1*
Phenol-d5 (Surr)	*78*		*35 - 132*	*01/23/25 09:13*	*01/23/25 21:43*	*1*
Terphenyl-d14 (Surr)	*82*		*44 - 147*	*01/23/25 09:13*	*01/23/25 21:43*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1

Client Sample ID: IA-06-TS
Date Collected: 01/21/25 14:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-12
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:42*	*1*
DCB Decachlorobiphenyl	*87*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:42*	*1*
Tetrachloro-m-xylene	*72*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:42*	*1*
Tetrachloro-m-xylene	*65*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:42*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:02*	*1*
DCB Decachlorobiphenyl	*99*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:02*	*1*
Tetrachloro-m-xylene	*80*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:02*	*1*
Tetrachloro-m-xylene	*76*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:02*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 15:34	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 15:34	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 15:34	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/23/25 09:47	01/24/25 15:34	1

Client Sample ID: IA-06-TS

Date Collected: 01/21/25 14:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-12

Matrix: Solid
Percent Solids: 98.6

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/23/25 09:47	01/24/25 15:34	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 15:34	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 15:34	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/23/25 09:47	01/24/25 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*40 - 140*	*01/23/25 09:47*	*01/24/25 15:34*	*1*
2-Fluorobiphenyl	*86*		*40 - 140*	*01/23/25 09:47*	*01/24/25 15:34*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*01/23/25 09:47*	*01/24/25 15:34*	*1*
1-Chlorooctadecane	*71*		*40 - 140*	*01/23/25 09:47*	*01/24/25 15:34*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2700**		18.1	5.0	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Antimony	0.13	U	0.91	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Arsenic	**0.74**	**J**	0.91	0.093	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Barium	**4.7**		1.8	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Beryllium	0.052	U	0.36	0.052	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Cadmium	0.10	U	0.91	0.10	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Calcium	**518**		90.6	36.9	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Chromium	**4.5**		1.8	0.82	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Cobalt	**0.25**	**J**	1.8	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Copper	**2.7**		1.8	0.33	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Iron	**2460**		54.3	18.3	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Lead	**11.5**		0.54	0.18	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Magnesium	**141**		90.6	9.2	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Manganese	**7.7**		3.6	0.36	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Nickel	**1.1**	**J**	1.8	0.43	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Potassium	**109**		90.6	14.7	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Silver	0.081	U	0.36	0.081	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Sodium	**85.1**	**J**	90.6	41.4	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Vanadium	**5.3**		1.8	0.19	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1
Zinc	**6.9**	**J**	7.2	2.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.015	0.0072	mg/Kg	☼	01/24/25 12:15	01/24/25 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.23	0.12	mg/Kg	☼	01/24/25 17:51	01/24/25 21:52	1
Percent Moisture (EPA Moisture)	**1.4**		1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	**98.6**		1.0	1.0	%			01/22/25 16:31	1

Client Sample ID: DUP-01

Date Collected: 01/21/25 12:01
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-13

Matrix: Solid
Percent Solids: 99.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,2-Dibromo-3-Chloropropane	0.00049	U *-	0.0011	0.00049	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,2-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,2-Dichloroethane	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
2-Butanone (MEK)	0.00039	U	0.0053	0.00039	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
2-Hexanone	0.0018	U	0.0053	0.0018	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0053	0.0016	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Acetone	0.0061	U	0.0064	0.0061	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Benzene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Bromodichloromethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Bromomethane	0.0011	U	0.0021	0.0011	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Carbon disulfide	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Chlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Chloroethane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Chloromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Cyclohexane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Methyl acetate	0.0046	U	0.0053	0.0046	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Methyl tert-butyl ether	0.00054	U	0.0011	0.00054	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Methylcyclohexane	0.00053	U	0.0011	0.00053	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
m-Xylene & p-Xylene	0.00018	U	0.0011	0.00018	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Styrene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Tetrachloroethene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
trans-1,3-Dichloropropene	0.00028	U *-	0.0011	0.00028	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1

Client Sample ID: DUP-01
Date Collected: 01/21/25 12:01
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-13
Matrix: Solid
Percent Solids: 99.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1
Vinyl chloride	0.00058	U	0.0011	0.00058	mg/Kg	☼	01/22/25 14:06	01/27/25 12:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:06*	*01/27/25 12:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 138*	*01/22/25 14:06*	*01/27/25 12:58*	*1*
4-Bromofluorobenzene	*95*		*71 - 128*	*01/22/25 14:06*	*01/27/25 12:58*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 150*	*01/22/25 14:06*	*01/27/25 12:58*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*	*01/22/25 14:06*	*01/27/25 12:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2-Methylnaphthalene	0.0093	U *-	0.33	0.0093	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1

Client Sample ID: DUP-01
Date Collected: 01/21/25 12:01
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-13
Matrix: Solid
Percent Solids: 99.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.061**		0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Benzo[a]pyrene	**0.068**		0.033	0.0088	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Benzo[b]fluoranthene	**0.099**		0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Benzo[g,h,i]perylene	**0.049**	**J**	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Benzo[k]fluoranthene	**0.042**		0.033	0.0065	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Chrysene	**0.091**	**J**	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Fluoranthene	**0.17**	**J**	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Indeno[1,2,3-cd]pyrene	**0.048**		0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Phenanthrene	**0.13**	**J**	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1
Pyrene	**0.14**	**J**	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/24/25 00:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
.beta.-Sitosterol	*0.37*	*J N*	*mg/Kg*	☼	*12.47*	*83-46-5*	*01/23/25 09:13*	*01/24/25 00:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*24 - 137*	*01/23/25 09:13*	*01/24/25 00:36*	*1*
2-Fluorobiphenyl	*71*		*38 - 128*	*01/23/25 09:13*	*01/24/25 00:36*	*1*
2-Fluorophenol (Surr)	*62*		*31 - 133*	*01/23/25 09:13*	*01/24/25 00:36*	*1*
Nitrobenzene-d5 (Surr)	*64*		*31 - 120*	*01/23/25 09:13*	*01/24/25 00:36*	*1*
Phenol-d5 (Surr)	*64*		*35 - 132*	*01/23/25 09:13*	*01/24/25 00:36*	*1*
Terphenyl-d14 (Surr)	*75*		*44 - 147*	*01/23/25 09:13*	*01/24/25 00:36*	*1*

Client Sample ID: DUP-01

Date Collected: 01/21/25 12:01
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-13

Matrix: Solid
Percent Solids: 99.4

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Endrin	0.00097	U	0.0067	0.00097	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*113*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:54*	*1*
DCB Decachlorobiphenyl	*92*		*17 - 150*	*01/25/25 18:37*	*01/27/25 05:54*	*1*
Tetrachloro-m-xylene	*82*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:54*	*1*
Tetrachloro-m-xylene	*75*		*21 - 150*	*01/25/25 18:37*	*01/27/25 05:54*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:18*	*1*
DCB Decachlorobiphenyl	*103*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:18*	*1*
Tetrachloro-m-xylene	*91*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:18*	*1*
Tetrachloro-m-xylene	*92*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:18*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Client Sample ID: DUP-01
Date Collected: 01/21/25 12:01
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-13
Matrix: Solid
Percent Solids: 99.4

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 16:52	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 16:52	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 16:52	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/23/25 09:47	01/24/25 16:52	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/23/25 09:47	01/24/25 16:52	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 16:52	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 16:52	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/23/25 09:47	01/24/25 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*40 - 140*	*01/23/25 09:47*	*01/24/25 16:52*	*1*
2-Fluorobiphenyl	*83*		*40 - 140*	*01/23/25 09:47*	*01/24/25 16:52*	*1*
2-Bromonaphthalene	*82*		*40 - 140*	*01/23/25 09:47*	*01/24/25 16:52*	*1*
1-Chlorooctadecane	*89*		*40 - 140*	*01/23/25 09:47*	*01/24/25 16:52*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2730**		18.5	5.1	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Arsenic	**0.85**	**J**	0.92	0.095	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Barium	**6.4**		1.8	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Calcium	**837**		92.3	37.5	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Chromium	**5.0**		1.8	0.84	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Cobalt	**0.29**	**J**	1.8	0.14	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Copper	**3.5**		1.8	0.34	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Iron	**2760**		55.4	18.6	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Lead	**16.3**		0.55	0.18	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Magnesium	**158**		92.3	9.4	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Manganese	**10.6**		3.7	0.37	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Nickel	**1.3**	**J**	1.8	0.43	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Potassium	**111**		92.3	14.9	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Selenium	**0.12**	**J**	1.2	0.12	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Sodium	**111**		92.3	42.2	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Vanadium	**5.9**		1.8	0.19	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1
Zinc	**12.2**		7.4	2.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.015	0.0071	mg/Kg	☼	01/24/25 12:15	01/24/25 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/24/25 17:51	01/24/25 21:53	1

Client Sample ID: DUP-01

Lab Sample ID: 460-319135-13
Date Collected: 01/21/25 12:01
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 99.4

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	**99.4**		1.0	1.0	%			01/22/25 16:31	1

Client Sample ID: IA-06-CS-4

Lab Sample ID: 460-319135-14
Date Collected: 01/21/25 14:45
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 99.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00021	U	0.00092	0.00021	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,1,2,2-Tetrachloroethane	0.00020	U	0.00092	0.00020	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00028	U	0.00092	0.00028	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,1,2-Trichloroethane	0.00016	U	0.00092	0.00016	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,1-Dichloroethane	0.00019	U	0.00092	0.00019	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,1-Dichloroethene	0.00021	U	0.00092	0.00021	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,2,3-Trichlorobenzene	0.00017	U	0.00092	0.00017	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,2,4-Trichlorobenzene	0.00033	U	0.00092	0.00033	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,2-Dibromo-3-Chloropropane	0.00042	U *-	0.00092	0.00042	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,2-Dibromoethane	0.00016	U	0.00092	0.00016	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,2-Dichlorobenzene	0.00033	U	0.00092	0.00033	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,2-Dichloroethane	0.00027	U	0.00092	0.00027	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,2-Dichloropropane	0.00039	U	0.00092	0.00039	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,3-Dichlorobenzene	0.00033	U	0.00092	0.00033	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
1,4-Dichlorobenzene	0.00021	U	0.00092	0.00021	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
2-Butanone (MEK)	0.00034	U	0.0046	0.00034	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
2-Hexanone	0.0016	U	0.0046	0.0016	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
4-Methyl-2-pentanone (MIBK)	0.0014	U	0.0046	0.0014	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Acetone	**0.0082**		0.0055	0.0052	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Benzene	0.00024	U	0.00092	0.00024	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Bromodichloromethane	0.00024	U	0.00092	0.00024	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Bromoform	0.00039	U	0.00092	0.00039	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Bromomethane	0.00092	U	0.0018	0.00092	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Carbon disulfide	0.00024	U	0.00092	0.00024	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Carbon tetrachloride	0.00035	U	0.00092	0.00035	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Chlorobenzene	0.00016	U	0.00092	0.00016	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Chlorobromomethane	0.00026	U	0.00092	0.00026	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Chloroethane	0.00048	U	0.00092	0.00048	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Chloroform	0.00089	U	0.00092	0.00089	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Chloromethane	0.00040	U	0.00092	0.00040	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
cis-1,2-Dichloroethene	0.00033	U	0.00092	0.00033	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
cis-1,3-Dichloropropene	0.00025	U	0.00092	0.00025	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Cyclohexane	0.00020	U	0.00092	0.00020	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Dibromochloromethane	0.00018	U	0.00092	0.00018	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Dichlorodifluoromethane	0.00031	U	0.00092	0.00031	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Ethylbenzene	0.00018	U	0.00092	0.00018	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Isopropylbenzene	0.00026	U	0.00092	0.00026	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Methyl acetate	0.0039	U	0.0046	0.0039	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Methyl tert-butyl ether	0.00047	U	0.00092	0.00047	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Methylcyclohexane	0.00046	U	0.00092	0.00046	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Methylene Chloride	0.0010	U	0.0018	0.0010	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1

Client Sample ID: IA-06-CS-4
Date Collected: 01/21/25 14:45
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-14
Matrix: Solid
Percent Solids: 99.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00016	U	0.00092	0.00016	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
o-Xylene	0.00018	U	0.00092	0.00018	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Styrene	0.00025	U	0.00092	0.00025	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Tetrachloroethene	0.00028	U	0.00092	0.00028	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Toluene	0.00021	U	0.00092	0.00021	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
trans-1,2-Dichloroethene	0.00023	U	0.00092	0.00023	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
trans-1,3-Dichloropropene	0.00024	U *-	0.00092	0.00024	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Trichloroethene	0.00029	U	0.00092	0.00029	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Trichlorofluoromethane	0.00037	U	0.00092	0.00037	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1
Vinyl chloride	0.00050	U	0.00092	0.00050	mg/Kg	☼	01/22/25 14:06	01/27/25 13:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:06*	*01/27/25 13:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 138*	*01/22/25 14:06*	*01/27/25 13:23*	*1*
4-Bromofluorobenzene	*95*		*71 - 128*	*01/22/25 14:06*	*01/27/25 13:23*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*	*01/22/25 14:06*	*01/27/25 13:23*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*	*01/22/25 14:06*	*01/27/25 13:23*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2-Methylnaphthalene	0.0093	U *-	0.33	0.0093	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1

Client Sample ID: IA-06-CS-4
Date Collected: 01/21/25 14:45
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-14
Matrix: Solid
Percent Solids: 99.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Benzo[a]anthracene	**0.043**		0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Benzo[a]pyrene	**0.066**		0.033	0.0088	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Benzo[b]fluoranthene	**0.095**		0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Benzo[g,h,i]perylene	**0.060**	**J**	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Benzo[k]fluoranthene	**0.041**		0.033	0.0065	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Chrysene	**0.069**	**J**	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Dibenz(a,h)anthracene	**0.015**	**J**	0.033	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Fluoranthene	**0.069**	**J**	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Indeno[1,2,3-cd]pyrene	**0.057**		0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Phenanthrene	**0.020**	**J**	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1
Pyrene	**0.065**	**J**	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/24/25 00:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*1.2*	*A J*	*mg/Kg*	☼	*1.92*	*N/A*	*01/23/25 09:13*	*01/24/25 00:55*	*1*
Unknown	*0.29*	*J*	*mg/Kg*	☼	*11.43*	*N/A*	*01/23/25 09:13*	*01/24/25 00:55*	*1*
Stigmasterol, 22,23-dihydro-	*0.92*	*J N*	*mg/Kg*	☼	*12.47*	*1000214-20-7*	*01/23/25 09:13*	*01/24/25 00:55*	*1*

Client Sample ID: IA-06-CS-4
Date Collected: 01/21/25 14:45
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-14
Matrix: Solid
Percent Solids: 99.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	1.5	J	mg/Kg	☼	13.08	N/A	01/23/25 09:13	01/24/25 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		24 - 137	01/23/25 09:13	01/24/25 00:55	1
2-Fluorobiphenyl	69		38 - 128	01/23/25 09:13	01/24/25 00:55	1
2-Fluorophenol (Surr)	61		31 - 133	01/23/25 09:13	01/24/25 00:55	1
Nitrobenzene-d5 (Surr)	61		31 - 120	01/23/25 09:13	01/24/25 00:55	1
Phenol-d5 (Surr)	63		35 - 132	01/23/25 09:13	01/24/25 00:55	1
Terphenyl-d14 (Surr)	69		44 - 147	01/23/25 09:13	01/24/25 00:55	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Endosulfan sulfate	0.00085	U	0.0067	0.00085	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Endrin	0.00097	U	0.0067	0.00097	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		17 - 150	01/25/25 18:37	01/27/25 06:06	1
DCB Decachlorobiphenyl	101		17 - 150	01/25/25 18:37	01/27/25 06:06	1
Tetrachloro-m-xylene	94		21 - 150	01/25/25 18:37	01/27/25 06:06	1
Tetrachloro-m-xylene	84		21 - 150	01/25/25 18:37	01/27/25 06:06	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1

Client Sample ID: IA-06-CS-4

Date Collected: 01/21/25 14:45
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-14

Matrix: Solid
Percent Solids: 99.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:35*	*1*
DCB Decachlorobiphenyl	*105*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:35*	*1*
Tetrachloro-m-xylene	*92*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:35*	*1*
Tetrachloro-m-xylene	*90*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:35*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 17:08	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 17:08	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 17:08	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/23/25 09:47	01/24/25 17:08	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/23/25 09:47	01/24/25 17:08	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 17:08	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 17:08	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/23/25 09:47	01/24/25 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*40 - 140*	*01/23/25 09:47*	*01/24/25 17:08*	*1*
2-Fluorobiphenyl	*83*		*40 - 140*	*01/23/25 09:47*	*01/24/25 17:08*	*1*
2-Bromonaphthalene	*82*		*40 - 140*	*01/23/25 09:47*	*01/24/25 17:08*	*1*
1-Chlorooctadecane	*76*		*40 - 140*	*01/23/25 09:47*	*01/24/25 17:08*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4670**		18.3	5.0	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Antimony	0.13	U	0.91	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Arsenic	**0.82**	**J**	0.91	0.094	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Barium	**3.5**		1.8	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Cadmium	0.10	U	0.91	0.10	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Calcium	**137**		91.5	37.2	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Chromium	**5.3**		1.8	0.83	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Cobalt	**0.23**	**J**	1.8	0.14	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Copper	**3.2**		1.8	0.34	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Iron	**2760**		54.9	18.5	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Lead	**1.7**		0.55	0.18	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Magnesium	**66.7**	**J**	91.5	9.3	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Manganese	**2.3**	**J**	3.7	0.37	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Nickel	**1.3**	**J**	1.8	0.43	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Potassium	**117**		91.5	14.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Silver	0.081	U	0.37	0.081	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1

Client Sample ID: IA-06-CS-4

Lab Sample ID: 460-319135-14
Date Collected: 01/21/25 14:45
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 99.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**55.2**	**J**	91.5	41.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Thallium	0.037	U	0.37	0.037	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Vanadium	**5.6**		1.8	0.19	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1
Zinc	2.8	U	7.3	2.8	mg/Kg	☼	01/24/25 06:19	01/24/25 18:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.014	0.0064	mg/Kg	☼	01/24/25 12:15	01/24/25 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/24/25 17:51	01/24/25 21:54	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	**99.4**		1.0	1.0	%			01/22/25 16:31	1

Client Sample ID: IA-06-CS-8

Lab Sample ID: 460-319135-15
Date Collected: 01/21/25 15:00
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 98.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,1,2-Trichloroethane	0.00020	U F1	0.0011	0.00020	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,2,3-Trichlorobenzene	0.00020	U F1	0.0011	0.00020	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,2,4-Trichlorobenzene	0.00040	U F1	0.0011	0.00040	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,2-Dibromo-3-Chloropropane	0.00052	U F1 *-	0.0011	0.00052	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,2-Dibromoethane	0.00020	U F1	0.0011	0.00020	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,2-Dichlorobenzene	0.00041	U F1	0.0011	0.00041	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,2-Dichloroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,2-Dichloropropane	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,3-Dichlorobenzene	0.00041	U F1	0.0011	0.00041	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
1,4-Dichlorobenzene	0.00025	U F1	0.0011	0.00025	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
2-Butanone (MEK)	0.00041	U	0.0056	0.00041	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
2-Hexanone	0.0019	U	0.0056	0.0019	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0056	0.0017	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Acetone	**0.088**		0.0067	0.0064	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Benzene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Bromodichloromethane	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Bromoform	0.00048	U F1	0.0011	0.00048	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Carbon disulfide	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Carbon tetrachloride	0.00044	U	0.0011	0.00044	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Chlorobromomethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Chloroethane	0.00059	U	0.0011	0.00059	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1

Client Sample ID: IA-06-CS-8
Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-15
Matrix: Solid
Percent Solids: 98.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00049	U	0.0011	0.00049	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
cis-1,2-Dichloroethene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
cis-1,3-Dichloropropene	0.00031	U F1	0.0011	0.00031	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Dibromochloromethane	0.00022	U F1	0.0011	0.00022	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Dichlorodifluoromethane	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Isopropylbenzene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Methyl acetate	0.0048	U	0.0056	0.0048	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Methyl tert-butyl ether	0.00058	U F1	0.0011	0.00058	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Methylcyclohexane	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
m-Xylene & p-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
o-Xylene	0.00022	U F1	0.0011	0.00022	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Styrene	0.00031	U F1	0.0011	0.00031	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Tetrachloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
trans-1,3-Dichloropropene	0.00030	U F1 *-	0.0011	0.00030	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Trichloroethene	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Trichlorofluoromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1
Vinyl chloride	0.00061	U	0.0011	0.00061	mg/Kg	☼	01/22/25 14:07	01/27/25 13:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/22/25 14:07*	*01/27/25 13:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 138*	*01/22/25 14:07*	*01/27/25 13:47*	*1*
4-Bromofluorobenzene	*96*		*71 - 128*	*01/22/25 14:07*	*01/27/25 13:47*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 150*	*01/22/25 14:07*	*01/27/25 13:47*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*	*01/22/25 14:07*	*01/27/25 13:47*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U F1	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
1,2,4-Trichlorobenzene	0.0086	U F1	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
1,2-Dichlorobenzene	0.0057	U F1	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
1,2-Diphenylhydrazine	0.013	U F1	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
1,3-Dichlorobenzene	0.010	U F1	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
1,4-Dichlorobenzene	0.013	U F1	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2,4,5-Trichlorophenol	0.034	U F1	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2,4,6-Trichlorophenol	0.043	U F1	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2,4-Dichlorophenol	0.022	U F1	0.13	0.022	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2,4-Dinitrophenol	0.16	U F1	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2,4-Dinitrotoluene	0.036	U F1	0.068	0.036	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2,6-Dinitrotoluene	0.024	U F1	0.068	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2-Chloronaphthalene	0.016	U F1	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2-Chlorophenol	0.012	U F1	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2-Methylnaphthalene	0.0094	U *- F1	0.33	0.0094	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1

Client Sample ID: IA-06-CS-8
Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-15
Matrix: Solid
Percent Solids: 98.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	0.013	U F1	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2-Nitroaniline	0.026	U F1	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
2-Nitrophenol	0.034	U F1	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
3,3'-Dichlorobenzidine	0.051	U F2	0.13	0.051	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
3-Nitroaniline	0.080	U F2	0.33	0.080	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
4,6-Dinitro-2-methylphenol	0.14	U F1	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
4-Bromophenyl phenyl ether	0.013	U F1	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
4-Chloro-3-methylphenol	0.019	U F1	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
4-Chloroaniline	0.060	U	0.33	0.060	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
4-Chlorophenyl phenyl ether	0.012	U F1	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
4-Methylphenol	0.021	U F1	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
4-Nitroaniline	0.039	U F1 F2	0.33	0.039	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
4-Nitrophenol	0.055	U F1 F2	0.68	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Acenaphthene	0.0096	U F1	0.33	0.0096	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Acenaphthylene	0.0096	U F1	0.33	0.0096	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Acetophenone	0.016	U F1	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Anthracene	0.010	U F1	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Atrazine	0.020	U F2	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Benzidine	0.070	U F2	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Benzo[a]anthracene	0.025	U F1 F2	0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Benzo[a]pyrene	0.0089	U F1 F2	0.033	0.0089	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Benzo[b]fluoranthene	0.0087	U F1 F2	0.033	0.0087	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Benzo[g,h,i]perylene	0.0099	U F1 F2	0.33	0.0099	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Benzo[k]fluoranthene	0.0066	U F1 F2	0.033	0.0066	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
bis (2-chloroisopropyl) ether	0.020	U F1	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Bis(2-chloroethoxy)methane	0.026	U F1	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Bis(2-chloroethyl)ether	0.012	U F1	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Bis(2-ethylhexyl) phthalate	0.018	U F1 F2	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Butyl benzyl phthalate	0.016	U F1 F2	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Caprolactam	0.052	U F2	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Carbazole	0.013	U F1 F2	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Chrysene	0.014	U F1 F2	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Dibenz(a,h)anthracene	0.015	U F1 F2	0.033	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Dibenzofuran	0.011	U F1	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Diethyl phthalate	0.011	U F1 F2	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Dimethyl phthalate	0.076	U F1	0.33	0.076	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Di-n-butyl phthalate	0.013	U F1 F2	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Di-n-octyl phthalate	0.018	U F1 F2	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Fluoranthene	0.012	U F1 F2	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Fluorene	0.0098	U F1	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Hexachlorobenzene	0.016	U F1	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Hexachlorobutadiene	0.0071	U F1	0.068	0.0071	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Hexachloroethane	0.012	U F1	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Indeno[1,2,3-cd]pyrene	0.013	U F1 F2	0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Isophorone	0.097	U F1	0.13	0.097	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Naphthalene	0.0058	U F1	0.33	0.0058	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Nitrobenzene	0.019	U F1	0.033	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1

Client Sample ID: IA-06-CS-8
Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-15
Matrix: Solid
Percent Solids: 98.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	0.031	U F1	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
N-Nitrosodi-n-propylamine	0.024	U F1	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
N-Nitrosodiphenylamine	0.028	U F1	0.33	0.028	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Pentachlorophenol	0.069	U F1 F2	0.27	0.069	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Phenanthrene	0.014	U F1	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Phenol	0.012	U F1	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1
Pyrene	0.0083	U F1 F2	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/23/25 20:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/23/25 20:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*47*		*24 - 137*	*01/23/25 09:13*	*01/23/25 20:46*	*1*
2-Fluorobiphenyl	*55*		*38 - 128*	*01/23/25 09:13*	*01/23/25 20:46*	*1*
2-Fluorophenol (Surr)	*54*		*31 - 133*	*01/23/25 09:13*	*01/23/25 20:46*	*1*
Nitrobenzene-d5 (Surr)	*53*		*31 - 120*	*01/23/25 09:13*	*01/23/25 20:46*	*1*
Phenol-d5 (Surr)	*56*		*35 - 132*	*01/23/25 09:13*	*01/23/25 20:46*	*1*
Terphenyl-d14 (Surr)	*60*		*44 - 147*	*01/23/25 09:13*	*01/23/25 20:46*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
4,4'-DDT	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Endrin	0.00098	U	0.0068	0.00098	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*17 - 150*	*01/25/25 18:37*	*01/27/25 06:19*	*1*
DCB Decachlorobiphenyl	*97*		*17 - 150*	*01/25/25 18:37*	*01/27/25 06:19*	*1*
Tetrachloro-m-xylene	*83*		*21 - 150*	*01/25/25 18:37*	*01/27/25 06:19*	*1*
Tetrachloro-m-xylene	*73*		*21 - 150*	*01/25/25 18:37*	*01/27/25 06:19*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1

Client Sample ID: IA-06-CS-8
Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-15
Matrix: Solid
Percent Solids: 98.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 09:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:52*	*1*
DCB Decachlorobiphenyl	*106*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:52*	*1*
Tetrachloro-m-xylene	*85*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:52*	*1*
Tetrachloro-m-xylene	*84*		*20 - 150*	*01/25/25 18:34*	*01/27/25 09:52*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/24/25 13:26	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U F1	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 10:41	1
C9-C12 Aliphatics	3.0	U F1	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 10:41	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 10:41	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/23/25 09:47	01/24/25 10:41	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/23/25 09:47	01/24/25 10:41	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/23/25 09:47	01/24/25 10:41	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/23/25 09:47	01/24/25 10:41	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/23/25 09:47	01/24/25 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*40 - 140*	*01/23/25 09:47*	*01/24/25 10:41*	*1*
2-Fluorobiphenyl	*95*		*40 - 140*	*01/23/25 09:47*	*01/24/25 10:41*	*1*
2-Bromonaphthalene	*90*		*40 - 140*	*01/23/25 09:47*	*01/24/25 10:41*	*1*
1-Chlorooctadecane	*66*		*40 - 140*	*01/23/25 09:47*	*01/24/25 10:41*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9320**		20.3	5.6	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Antimony	0.15	U F1	1.0	0.15	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Arsenic	**1.7**		1.0	0.10	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Barium	**4.5**	**F1**	2.0	0.15	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Beryllium	**0.091**	**J**	0.41	0.058	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Cadmium	0.11	U	1.0	0.11	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Calcium	**114**		102	41.4	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Chromium	**8.6**		2.0	0.92	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Cobalt	**0.46**	**J**	2.0	0.15	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Copper	**5.8**		2.0	0.37	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1

Client Sample ID: IA-06-CS-8

Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-15

Matrix: Solid
Percent Solids: 98.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5380**		61.0	20.5	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Lead	**2.3**		0.61	0.20	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Magnesium	**120**		102	10.4	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Manganese	**4.5**		4.1	0.41	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Nickel	**2.2**		2.0	0.48	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Potassium	**181**		102	16.5	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Selenium	0.13	U	1.3	0.13	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Silver	0.090	U	0.41	0.090	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Sodium	46.5	U	102	46.5	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Thallium	0.042	U	0.41	0.042	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Vanadium	**12.2**		2.0	0.21	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1
Zinc	3.1	U	8.1	3.1	mg/Kg	☼	01/24/25 06:19	01/24/25 18:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.017	0.0079	mg/Kg	☼	01/27/25 00:52	01/27/25 04:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/24/25 17:49	01/24/25 21:27	1
Percent Moisture (EPA Moisture)	**1.6**		1.0	1.0	%			01/22/25 16:31	1
Percent Solids (EPA Moisture)	**98.4**		1.0	1.0	%			01/22/25 16:31	1

Client Sample ID: Trip Blank

Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-16

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/23/25 09:21	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/23/25 09:21	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/23/25 09:21	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/23/25 09:21	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/23/25 09:21	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/23/25 09:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/23/25 09:21	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/23/25 09:21	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/23/25 09:21	1
1,4-Dioxane	28	U	50	28	ug/L			01/23/25 09:21	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/23/25 09:21	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/23/25 09:21	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/23/25 09:21	1
Acetone	4.4	U	5.0	4.4	ug/L			01/23/25 09:21	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/23/25 09:21	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/23/25 09:21	1
Benzene	0.20	U	1.0	0.20	ug/L			01/23/25 09:21	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/23/25 09:21	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/23/25 09:21	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/23/25 09:21	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/23/25 09:21	1

Client Sample ID: Trip Blank
Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/23/25 09:21	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/23/25 09:21	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/23/25 09:21	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/23/25 09:21	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/23/25 09:21	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/23/25 09:21	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 09:21	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/23/25 09:21	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/23/25 09:21	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/23/25 09:21	1
Methyl acetate	0.79	U *+	5.0	0.79	ug/L			01/23/25 09:21	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/23/25 09:21	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/23/25 09:21	1
Styrene	0.42	U	1.0	0.42	ug/L			01/23/25 09:21	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/23/25 09:21	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/23/25 09:21	1
Toluene	0.38	U	1.0	0.38	ug/L			01/23/25 09:21	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/23/25 09:21	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 09:21	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/23/25 09:21	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/23/25 09:21	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/23/25 09:21	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/23/25 09:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/23/25 09:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 128*		*01/23/25 09:21*	*1*
4-Bromofluorobenzene	*85*		*76 - 120*		*01/23/25 09:21*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 132*		*01/23/25 09:21*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*01/23/25 09:21*	*1*

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(65-138)	(71-128)	(50-150)	(71-126)
460-319135-1	IA-03-CS-4	105	101	104	114
460-319135-2	IA-03-CS-8	109	105	106	104
460-319135-3	IA-02-TS	100	96	96	95
460-319135-4	IA-02-CS	100	94	95	96
460-319135-5	IA-05-TS	102	96	97	95
460-319135-6	IA-05-CS-4	103	92	98	95
460-319135-7	IA-05-CS-8	98	95	96	94
460-319135-9	IA-07-TS	106	110	103	108
460-319135-10	IA-07-CS-4	108	105	106	108
460-319135-11	IA-07-CS-8	106	109	104	103
460-319135-12	IA-06-TS	98	96	95	97
460-319135-13	DUP-01	99	95	97	95
460-319135-14	IA-06-CS-4	99	95	96	94
460-319135-15	IA-06-CS-8	100	96	96	95
460-319135-15 MS	IA-06-CS-8	91	94	94	97
460-319135-15 MSD	IA-06-CS-8	93	94	94	96
LB3 460-1017631/1-A	Method Blank	108	89	104	88
LCS 460-1018066/2	Lab Control Sample	102	87	100	88
LCS 460-1018176/3	Lab Control Sample	101	95	95	102
LCS 460-1024023/2	Lab Control Sample	102	99	100	107
LCSD 460-1018066/3	Lab Control Sample Dup	101	86	98	87
LCSD 460-1018176/4	Lab Control Sample Dup	104	98	97	101
LCSD 460-1024023/3	Lab Control Sample Dup	105	102	105	108
MB 460-1018066/6	Method Blank	108	90	102	89
MB 460-1018176/7	Method Blank	101	98	98	101
MB 460-1024023/7	Method Blank	106	105	101	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-128)	(76-120)	(77-132)	(80-120)
460-319135-8	FB_20250121	115	89	92	100
460-319135-16	Trip Blank	113	85	90	106
LCS 460-1017719/4	Lab Control Sample	115	96	92	106
LCSD 460-1017719/5	Lab Control Sample Dup	111	93	91	103
MB 460-1017719/8	Method Blank	118	88	97	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(24-137)	(38-128)	(31-133)	(31-120)	(35-132)	(44-147)
460-319135-1	IA-03-CS-4	87	86	89	91	82	90
460-319135-2	IA-03-CS-8	81	80	76	84	74	79
460-319135-3	IA-02-TS	47	59	56	58	59	59
460-319135-4	IA-02-CS	56	58	52	54	53	54
460-319135-5	IA-05-TS	45	59	56	56	58	59
460-319135-6	IA-05-CS-4	46	51	48	49	49	50
460-319135-7	IA-05-CS-8	52	62	57	58	59	62
460-319135-9	IA-07-TS	91	87	82	81	83	88
460-319135-10	IA-07-CS-4	83	81	85	83	76	84
460-319135-11	IA-07-CS-8	86	80	81	84	78	82
460-319135-12	IA-06-TS	64	81	77	74	78	82
460-319135-13	DUP-01	63	71	62	64	64	75
460-319135-14	IA-06-CS-4	61	69	61	61	63	69
460-319135-15	IA-06-CS-8	47	55	54	53	56	60
460-319135-15 MS	IA-06-CS-8	32	45	45	44	40	29 S1-
460-319135-15 MSD	IA-06-CS-8	41	42	40	40	43	43 S1-
460-319165-C-15-D MS	Matrix Spike	89	80	75	81	73	84
460-319165-C-15-E MSD	Matrix Spike Duplicate	87	79	75	75	71	81
LCS 460-1017758/2-A	Lab Control Sample	70	74	70	70	72	72
LCS 460-1023975/2-A	Lab Control Sample	104	95	99	95	95	98
LCSD 460-1017758/3-A	Lab Control Sample Dup	63	66	62	63	65	65
LCSD 460-1023975/3-A	Lab Control Sample Dup	104	93	102	92	93	97
MB 460-1017758/1-A	Method Blank	56	69	65	64	67	71
MB 460-1023975/1-A	Method Blank	87	86	98	92	79	86

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(37-150)	(46-139)	(16-80)	(51-145)	(10-56)	(13-159)
460-319135-8	FB_20250121	87	90	53	90	34	33
460-319158-S-2-A MSD	Matrix Spike Duplicate	97	99	53	103	34	41
460-319158-T-2-A MS	Matrix Spike	105	106	61	106	41	51
LCS 460-1017771/2-A	Lab Control Sample	111	111	54	110	36	84
LCSD 460-1017771/3-A	Lab Control Sample Dup	97	96	55	96	38	70
MB 460-1017771/1-A	Method Blank	88	89	54	91	36	30

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)

Client: Geosyntec Consultants Inc
Job ID: 460-319135-1
Project/Site: Manchester Landfill

PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(17-150)	(17-150)	(21-150)	(21-150)
460-319135-1	IA-03-CS-4	74	73	99	100
460-319135-2	IA-03-CS-8	56	54	72	73
460-319135-3	IA-02-TS	72	83	54	57
460-319135-4	IA-02-CS	89	104	75	79
460-319135-5	IA-05-TS	91	99	63	71
460-319135-6	IA-05-CS-4	100	117	81	96
460-319135-7	IA-05-CS-8	92	105	69	77
460-319135-9	IA-07-TS	34	38	49	50
460-319135-10	IA-07-CS-4	64	62	85	85
460-319135-11	IA-07-CS-8	46	47	68	68
460-319135-12	IA-06-TS	87	101	65	72
460-319135-13	DUP-01	92	113	75	82
460-319135-14	IA-06-CS-4	101	111	84	94
460-319135-15	IA-06-CS-8	97	106	73	83
460-319135-15 MS	IA-06-CS-8	67	80	58	61
460-319135-15 MSD	IA-06-CS-8	68	83	61	65
460-319165-B-15-G MS	Matrix Spike	55	50	71	71
460-319165-C-15-L MSD	Matrix Spike Duplicate	51	46	71	74
LCS 460-1018105/2-A	Lab Control Sample	53	63	66	62
LCS 460-1024180/2-A	Lab Control Sample	55	56	89	86
LCSD 460-1018105/3-A	Lab Control Sample Dup	51	60	63	60
LCSD 460-1024180/3-A	Lab Control Sample Dup	67	61	101	81
MB 460-1018105/1-A	Method Blank	56	63	66	69
MB 460-1024180/1-A	Method Blank	56	58	43	45

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(34-120)	(34-120)	(30-131)	(30-131)
460-319135-8	FB_20250121	66	67	58	59
460-319158-K-2-A MS	Matrix Spike	79	74	69	71
460-319158-K-2-B MSD	Matrix Spike Duplicate	78	74	71	72
LCS 460-1017868/2-A	Lab Control Sample	82	72	55	53
LCSD 460-1017868/3-A	Lab Control Sample Dup	82	74	55	55
MB 460-1017868/1-A	Method Blank	75	76	55	58

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (20-150)	DCBP2 (20-150)	TCX1 (20-150)	TCX2 (20-150)
460-319135-1	IA-03-CS-4	87	89	114	119
460-319135-2	IA-03-CS-8	65	66	83	85
460-319135-3	IA-02-TS	84	81	64	66
460-319135-4	IA-02-CS	109	111	93	94
460-319135-5	IA-05-TS	161 S1+	154 S1+	116	114
460-319135-6	IA-05-CS-4	102	110	87	92
460-319135-7	IA-05-CS-8	103	104	80	82
460-319135-9	IA-07-TS	46	49	62	64
460-319135-10	IA-07-CS-4	77	85	103	106
460-319135-11	IA-07-CS-8	59	62	81	83
460-319135-12	IA-06-TS	99	103	76	80
460-319135-13	DUP-01	103	104	92	91
460-319135-14	IA-06-CS-4	105	106	90	92
460-319135-15	IA-06-CS-8	106	105	84	85
460-319135-15 MS	IA-06-CS-8	93	94	83	83
460-319135-15 MSD	IA-06-CS-8	99	98	85	86
460-319165-B-15-H MS	Matrix Spike	52	51	67	67
460-319165-C-15-N MSD	Matrix Spike Duplicate	53	53	72	72
LCS 460-1018104/2-A	Lab Control Sample	77	77	81	82
LCS 460-1024184/2-A	Lab Control Sample	73	76	101	102
LCSD 460-1018104/3-A	Lab Control Sample Dup	78	79	80	82
LCSD 460-1024184/3-A	Lab Control Sample Dup	68	70	92	95
MB 460-1018104/1-A	Method Blank	86	83	78	81
MB 460-1024184/1-A	Method Blank	54	52	37	36

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (18-145)	DCBP2 (18-145)	TCX1 (21-124)	TCX2 (21-124)
460-319135-8	FB_20250121	67	67	76	81
460-319158-H-2-A MS	Matrix Spike	70	78	81	79
460-319158-H-2-B MSD	Matrix Spike Duplicate	70	72	81	79
LCS 460-1017866/2-A	Lab Control Sample	72	63	87	78
LCSD 460-1017866/3-A	Lab Control Sample Dup	66	63	80	81
MB 460-1017866/1-A	Method Blank	64	62	78	81

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319135-1
Project/Site: Manchester Landfill

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	OTPH1 (40-140)	FBP1 (40-140)	2BN1 (40-140)	1COD1 (40-140)
460-319135-1	IA-03-CS-4	85	87	75	73
460-319135-2	IA-03-CS-8	71	88	77	60
460-319135-3	IA-02-TS	69	85	84	58
460-319135-4	IA-02-CS	77	80	76	75
460-319135-5	IA-05-TS	79	86	83	80
460-319135-6	IA-05-CS-4	80	86	83	83
460-319135-7	IA-05-CS-8	75	89	84	71
460-319135-9	IA-07-TS	71	100	87	58
460-319135-10	IA-07-CS-4	91	90	79	77
460-319135-11	IA-07-CS-8	80	102	90	61
460-319135-12	IA-06-TS	77	86	84	71
460-319135-13	DUP-01	84	83	82	89
460-319135-14	IA-06-CS-4	71	83	82	76
460-319135-15	IA-06-CS-8	77	95	90	66
460-319135-15 MS	IA-06-CS-8	72	89	86	61
460-319135-15 MSD	IA-06-CS-8	76	89	85	63
460-319165-B-15-F MS	Matrix Spike	53	81	75	43
460-319165-C-15-J MSD	Matrix Spike Duplicate	54	89	80	47
LCS 460-1017765/2-A	Lab Control Sample	82	95	94	92
LCS 460-1024177/2-A	Lab Control Sample	79	103	86	74
LCSD 460-1017765/3-A	Lab Control Sample Dup	80	92	90	91
LCSD 460-1024177/3-A	Lab Control Sample Dup	88	96	85	74
MB 460-1017765/1-A	Method Blank	93	88	87	85
MB 460-1024177/1-A	Method Blank	82	87	77	86

Surrogate Legend

OTPH = o-Terphenyl
FBP = 2-Fluorobiphenyl
2BN = 2-Bromonaphthalene
1COD = 1-Chlorooctadecane

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH1 (40-140)	1COD1 (40-140)
460-319135-8	FB_20250121	74	81
LCS 460-1018029/2-A	Lab Control Sample	75	96
LCSD 460-1018029/3-A	Lab Control Sample Dup	72	93
MB 460-1018029/1-A	Method Blank	76	85

Surrogate Legend

OTPH = o-Terphenyl
1COD = 1-Chlorooctadecane

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-1017631/1-A
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017631

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/22/25 14:00	01/25/25 17:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-1017631/1-A
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017631

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg		01/22/25 14:00	01/25/25 17:29	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg		01/22/25 14:00	01/25/25 17:29	1

Tentatively Identified Compound	*LB3 Est. Result*	*LB3 Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*01/22/25 14:00*	*01/25/25 17:29*	*1*

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/22/25 14:00*	*01/25/25 17:29*	*1*
4-Bromofluorobenzene	*89*		*71 - 128*	*01/22/25 14:00*	*01/25/25 17:29*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 150*	*01/22/25 14:00*	*01/25/25 17:29*	*1*
Toluene-d8 (Surr)	*88*		*71 - 126*	*01/22/25 14:00*	*01/25/25 17:29*	*1*

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.00026	U	0.0214	0.0166		mg/Kg	☼	78	78 - 120
1,1,2,2-Tetrachloroethane	0.00024	U	0.0214	0.0166		mg/Kg	☼	77	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0214	0.0190		mg/Kg	☼	89	75 - 121
1,1,2-Trichloroethane	0.00020	U F1	0.0214	0.0161	F1	mg/Kg	☼	75	80 - 120
1,1-Dichloroethane	0.00023	U	0.0214	0.0202		mg/Kg	☼	94	72 - 120
1,1-Dichloroethene	0.00025	U	0.0214	0.0203		mg/Kg	☼	95	76 - 120
1,2,3-Trichlorobenzene	0.00020	U F1	0.0214	0.0142	F1	mg/Kg	☼	66	77 - 137
1,2,4-Trichlorobenzene	0.00040	U F1	0.0214	0.0134	F1	mg/Kg	☼	62	77 - 136
1,2-Dibromo-3-Chloropropane	0.00052	U F1 *-	0.0214	0.0107	F1	mg/Kg	☼	50	80 - 124
1,2-Dibromoethane	0.00020	U F1	0.0214	0.0154	F1	mg/Kg	☼	72	79 - 120
1,2-Dichlorobenzene	0.00041	U F1	0.0214	0.0165	F1	mg/Kg	☼	77	80 - 120
1,2-Dichloroethane	0.00033	U	0.0214	0.0175		mg/Kg	☼	82	70 - 123
1,2-Dichloropropane	0.00048	U	0.0214	0.0195		mg/Kg	☼	91	73 - 124
1,3-Dichlorobenzene	0.00041	U F1	0.0214	0.0168	F1	mg/Kg	☼	78	80 - 120
1,4-Dichlorobenzene	0.00025	U F1	0.0214	0.0163	F1	mg/Kg	☼	76	80 - 120
2-Butanone (MEK)	0.00041	U	0.107	0.0796		mg/Kg	☼	74	64 - 128
2-Hexanone	0.0019	U	0.107	0.0831		mg/Kg	☼	78	75 - 120
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.107	0.0949		mg/Kg	☼	89	80 - 120
Acetone	0.088		0.107	0.200		mg/Kg	☼	105	58 - 122
Benzene	0.00029	U	0.0214	0.0193		mg/Kg	☼	90	75 - 120
Bromodichloromethane	0.00029	U	0.0214	0.0167		mg/Kg	☼	78	77 - 124
Bromoform	0.00048	U F1	0.0214	0.0125	F1	mg/Kg	☼	58	61 - 125
Bromomethane	0.0011	U	0.0214	0.0166		mg/Kg	☼	78	37 - 150
Carbon disulfide	0.00030	U	0.0214	0.0203		mg/Kg	☼	95	57 - 133
Carbon tetrachloride	0.00044	U	0.0214	0.0167		mg/Kg	☼	78	66 - 127
Chlorobenzene	0.00020	U	0.0214	0.0181		mg/Kg	☼	85	80 - 120
Chlorobromomethane	0.00032	U	0.0214	0.0175		mg/Kg	☼	82	76 - 127
Chloroethane	0.00059	U	0.0214	0.0177		mg/Kg	☼	83	60 - 123
Chloroform	0.0011	U	0.0214	0.0188		mg/Kg	☼	88	79 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	0.00049	U	0.0214	0.0193		mg/Kg	☼	90	46 - 122
cis-1,2-Dichloroethene	0.00040	U	0.0214	0.0193		mg/Kg	☼	90	80 - 123
cis-1,3-Dichloropropene	0.00031	U F1	0.0214	0.0127	F1	mg/Kg	☼	60	75 - 120
Cyclohexane	0.00025	U	0.0214	0.0199		mg/Kg	☼	93	65 - 132
Dibromochloromethane	0.00022	U F1	0.0214	0.0143	F1	mg/Kg	☼	67	72 - 120
Dichlorodifluoromethane	0.00038	U	0.0214	0.0153		mg/Kg	☼	72	45 - 129
Ethylbenzene	0.00022	U	0.0214	0.0185		mg/Kg	☼	86	80 - 120
Isopropylbenzene	0.00032	U	0.0214	0.0164		mg/Kg	☼	77	74 - 120
Methyl acetate	0.0048	U	0.0428	0.0513		mg/Kg	☼	120	57 - 120
Methyl tert-butyl ether	0.00058	U F1	0.0214	0.0157	F1	mg/Kg	☼	73	74 - 125
Methylcyclohexane	0.00056	U	0.0214	0.0189		mg/Kg	☼	88	66 - 125
Methylene Chloride	0.0013	U	0.0214	0.0190		mg/Kg	☼	89	78 - 120
m-Xylene & p-Xylene	0.00020	U	0.0214	0.0171		mg/Kg	☼	80	80 - 120
o-Xylene	0.00022	U F1	0.0214	0.0170	F1	mg/Kg	☼	79	80 - 120
Styrene	0.00031	U F1	0.0214	0.0158	F1	mg/Kg	☼	74	80 - 120
Tetrachloroethene	0.00034	U	0.0214	0.0174		mg/Kg	☼	81	73 - 120
Toluene	0.00026	U	0.0214	0.0184		mg/Kg	☼	86	80 - 120
trans-1,2-Dichloroethene	0.00028	U	0.0214	0.0188		mg/Kg	☼	88	78 - 120
trans-1,3-Dichloropropene	0.00030	U F1 *-	0.0214	0.0102	F1	mg/Kg	☼	47	77 - 120
Trichloroethene	0.00036	U	0.0214	0.0182		mg/Kg	☼	85	80 - 120
Trichlorofluoromethane	0.00046	U	0.0214	0.0145		mg/Kg	☼	68	61 - 130
Vinyl chloride	0.00061	U	0.0214	0.0166		mg/Kg	☼	78	54 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*65 - 138*
4-Bromofluorobenzene	*94*		*71 - 128*
Dibromofluoromethane (Surr)	*94*		*50 - 150*
Toluene-d8 (Surr)	*97*		*71 - 126*

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.00026	U	0.0250	0.0191	F1	mg/Kg	☼	76	78 - 120	14	30
1,1,2,2-Tetrachloroethane	0.00024	U	0.0250	0.0180		mg/Kg	☼	72	70 - 133	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0250	0.0210		mg/Kg	☼	84	75 - 121	10	30
1,1,2-Trichloroethane	0.00020	U F1	0.0250	0.0181	F1	mg/Kg	☼	72	80 - 120	11	30
1,1-Dichloroethane	0.00023	U	0.0250	0.0229		mg/Kg	☼	91	72 - 120	13	30
1,1-Dichloroethene	0.00025	U	0.0250	0.0197		mg/Kg	☼	79	76 - 120	3	30
1,2,3-Trichlorobenzene	0.00020	U F1	0.0250	0.0112	F1	mg/Kg	☼	45	77 - 137	24	30
1,2,4-Trichlorobenzene	0.00040	U F1	0.0250	0.0104	F1	mg/Kg	☼	42	77 - 136	25	30
1,2-Dibromo-3-Chloropropane	0.00052	U F1 *-	0.0250	0.0112	F1	mg/Kg	☼	45	80 - 124	4	30
1,2-Dibromoethane	0.00020	U F1	0.0250	0.0173	F1	mg/Kg	☼	69	79 - 120	12	30
1,2-Dichlorobenzene	0.00041	U F1	0.0250	0.0158	F1	mg/Kg	☼	63	80 - 120	4	30
1,2-Dichloroethane	0.00033	U	0.0250	0.0202		mg/Kg	☼	80	70 - 123	14	30
1,2-Dichloropropane	0.00048	U	0.0250	0.0221		mg/Kg	☼	88	73 - 124	13	30
1,3-Dichlorobenzene	0.00041	U F1	0.0250	0.0160	F1	mg/Kg	☼	64	80 - 120	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.00025	U F1	0.0250	0.0150	F1	mg/Kg	☼	60	80 - 120	8	30
2-Butanone (MEK)	0.00041	U	0.125	0.0768	F1	mg/Kg	☼	61	64 - 128	4	30
2-Hexanone	0.0019	U	0.125	0.0774	F1	mg/Kg	☼	62	75 - 120	7	30
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.125	0.100		mg/Kg	☼	80	80 - 120	6	30
Acetone	0.088		0.125	0.221		mg/Kg	☼	106	58 - 122	10	30
Benzene	0.00029	U	0.0250	0.0218		mg/Kg	☼	87	75 - 120	12	30
Bromodichloromethane	0.00029	U	0.0250	0.0193		mg/Kg	☼	77	77 - 124	14	30
Bromoform	0.00048	U F1	0.0250	0.0136	F1	mg/Kg	☼	54	61 - 125	8	30
Bromomethane	0.0011	U	0.0250	0.0189		mg/Kg	☼	76	37 - 150	13	30
Carbon disulfide	0.00030	U	0.0250	0.0232		mg/Kg	☼	93	57 - 133	13	30
Carbon tetrachloride	0.00044	U	0.0250	0.0183		mg/Kg	☼	73	66 - 127	9	30
Chlorobenzene	0.00020	U	0.0250	0.0193	F1	mg/Kg	☼	77	80 - 120	6	30
Chlorobromomethane	0.00032	U	0.0250	0.0198		mg/Kg	☼	79	76 - 127	13	30
Chloroethane	0.00059	U	0.0250	0.0201		mg/Kg	☼	80	60 - 123	13	30
Chloroform	0.0011	U	0.0250	0.0216		mg/Kg	☼	86	79 - 126	14	30
Chloromethane	0.00049	U	0.0250	0.0213		mg/Kg	☼	85	46 - 122	10	30
cis-1,2-Dichloroethene	0.00040	U	0.0250	0.0213		mg/Kg	☼	85	80 - 123	10	30
cis-1,3-Dichloropropene	0.00031	U F1	0.0250	0.0139	F1	mg/Kg	☼	55	75 - 120	9	30
Cyclohexane	0.00025	U	0.0250	0.0217		mg/Kg	☼	86	65 - 132	8	30
Dibromochloromethane	0.00022	U F1	0.0250	0.0167	F1	mg/Kg	☼	67	72 - 120	15	30
Dichlorodifluoromethane	0.00038	U	0.0250	0.0184		mg/Kg	☼	73	45 - 129	18	30
Ethylbenzene	0.00022	U	0.0250	0.0184	F1	mg/Kg	☼	74	80 - 120	0	30
Isopropylbenzene	0.00032	U	0.0250	0.0169	F1	mg/Kg	☼	68	74 - 120	3	30
Methyl acetate	0.0048	U	0.0501	0.0759	F1 F2	mg/Kg	☼	152	57 - 120	39	30
Methyl tert-butyl ether	0.00058	U F1	0.0250	0.0179	F1	mg/Kg	☼	71	74 - 125	13	30
Methylcyclohexane	0.00056	U	0.0250	0.0202		mg/Kg	☼	81	66 - 125	6	30
Methylene Chloride	0.0013	U	0.0250	0.0221		mg/Kg	☼	88	78 - 120	15	30
m-Xylene & p-Xylene	0.00020	U	0.0250	0.0182	F1	mg/Kg	☼	73	80 - 120	6	30
o-Xylene	0.00022	U F1	0.0250	0.0185	F1	mg/Kg	☼	74	80 - 120	9	30
Styrene	0.00031	U F1	0.0250	0.0153	F1	mg/Kg	☼	61	80 - 120	3	30
Tetrachloroethene	0.00034	U	0.0250	0.0187		mg/Kg	☼	75	73 - 120	7	30
Toluene	0.00026	U	0.0250	0.0201		mg/Kg	☼	80	80 - 120	9	30
trans-1,2-Dichloroethene	0.00028	U	0.0250	0.0214		mg/Kg	☼	86	78 - 120	13	30
trans-1,3-Dichloropropene	0.00030	U F1 *-	0.0250	0.0113	F1	mg/Kg	☼	45	77 - 120	10	30
Trichloroethene	0.00036	U	0.0250	0.0207		mg/Kg	☼	83	80 - 120	13	30
Trichlorofluoromethane	0.00046	U	0.0250	0.0168		mg/Kg	☼	67	61 - 130	15	30
Vinyl chloride	0.00061	U	0.0250	0.0189		mg/Kg	☼	75	54 - 122	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 138*
4-Bromofluorobenzene	*94*		*71 - 128*
Dibromofluoromethane (Surr)	*94*		*50 - 150*
Toluene-d8 (Surr)	*96*		*71 - 126*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1017719/8
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/23/25 08:36	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/23/25 08:36	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/23/25 08:36	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/23/25 08:36	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/23/25 08:36	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/23/25 08:36	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/23/25 08:36	1
1,4-Dioxane	28	U	50	28	ug/L			01/23/25 08:36	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/23/25 08:36	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/23/25 08:36	1
Acrolein	2.4	U	4.0	2.4	ug/L			01/23/25 08:36	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/23/25 08:36	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/23/25 08:36	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/23/25 08:36	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/23/25 08:36	1
Acetone	4.4	U	5.0	4.4	ug/L			01/23/25 08:36	1
Benzene	0.20	U	1.0	0.20	ug/L			01/23/25 08:36	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/23/25 08:36	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/23/25 08:36	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/23/25 08:36	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/23/25 08:36	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/23/25 08:36	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/23/25 08:36	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/23/25 08:36	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/23/25 08:36	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/23/25 08:36	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/23/25 08:36	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 08:36	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/23/25 08:36	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/23/25 08:36	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/23/25 08:36	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/23/25 08:36	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/23/25 08:36	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/23/25 08:36	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/23/25 08:36	1
Styrene	0.42	U	1.0	0.42	ug/L			01/23/25 08:36	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/23/25 08:36	1
Toluene	0.38	U	1.0	0.38	ug/L			01/23/25 08:36	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/23/25 08:36	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/23/25 08:36	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 08:36	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/23/25 08:36	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/23/25 08:36	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/23/25 08:36	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/23/25 08:36*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1017719/8
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 128*		*01/23/25 08:36*	*1*
4-Bromofluorobenzene	*88*		*76 - 120*		*01/23/25 08:36*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 132*		*01/23/25 08:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/23/25 08:36*	*1*

Lab Sample ID: LCS 460-1017719/4
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.0		ug/L		90	72 - 128
1,1,2,2-Tetrachloroethane	20.0	24.3		ug/L		122	63 - 139
1,1,2-Trichloroethane	20.0	22.5		ug/L		113	74 - 125
1,1-Dichloroethane	20.0	21.6		ug/L		108	73 - 130
1,1-Dichloroethene	20.0	17.1		ug/L		85	68 - 133
1,2-Dibromo-3-Chloropropane	20.0	20.7		ug/L		103	58 - 132
1,2-Dibromoethane	20.0	21.2		ug/L		106	79 - 126
1,4-Dioxane	400	394		ug/L		99	42 - 150
1,2-Dichloroethane	20.0	22.6		ug/L		113	66 - 129
1,2-Dichloropropane	20.0	22.8		ug/L		114	72 - 128
Acrolein	40.0	91.9	*+	ug/L		230	18 - 150
2-Butanone (MEK)	100	69.4		ug/L		69	65 - 142
Acrylonitrile	200	281		ug/L		140	57 - 146
2-Hexanone	100	114		ug/L		114	72 - 134
4-Methyl-2-pentanone (MIBK)	100	110		ug/L		110	77 - 130
Acetone	100	93.6		ug/L		94	60 - 133
Benzene	20.0	21.7		ug/L		108	71 - 126
Bromodichloromethane	20.0	18.7		ug/L		94	76 - 121
Bromoform	20.0	19.3		ug/L		97	58 - 128
Bromomethane	20.0	17.4		ug/L		87	33 - 150
Carbon disulfide	20.0	19.0		ug/L		95	35 - 150
Carbon tetrachloride	20.0	17.3		ug/L		86	65 - 131
Chlorobenzene	20.0	18.8		ug/L		94	80 - 120
Chloroethane	20.0	20.5		ug/L		103	54 - 150
Chloroform	20.0	19.2		ug/L		96	78 - 125
Chloromethane	20.0	24.3		ug/L		121	43 - 149
cis-1,2-Dichloroethene	20.0	17.1		ug/L		86	78 - 121
cis-1,3-Dichloropropene	20.0	21.7		ug/L		108	74 - 125
Dibromochloromethane	20.0	19.5		ug/L		97	73 - 121
Dichlorodifluoromethane	20.0	18.3		ug/L		91	38 - 144
Ethylbenzene	20.0	18.9		ug/L		94	78 - 120
Methyl acetate	40.0	63.3	*+	ug/L		158	50 - 147
tert-Butyl alcohol	200	201		ug/L		101	64 - 142
Methyl tert-butyl ether	20.0	21.0		ug/L		105	72 - 131
Methylene Chloride	20.0	18.1		ug/L		90	74 - 127
Styrene	20.0	18.6		ug/L		93	82 - 127
Tetrachloroethene	20.0	17.2		ug/L		86	70 - 127
Toluene	20.0	19.8		ug/L		99	78 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1017719/4
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	40.0	37.7		ug/L		94	80 - 120
trans-1,2-Dichloroethene	20.0	17.2		ug/L		86	70 - 126
trans-1,3-Dichloropropene	20.0	21.4		ug/L		107	71 - 127
Trichloroethene	20.0	17.5		ug/L		88	73 - 121
Trichlorofluoromethane	20.0	19.6		ug/L		98	62 - 134
Vinyl chloride	20.0	22.1		ug/L		111	55 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*
4-Bromofluorobenzene	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*92*		*77 - 132*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 460-1017719/5
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	17.8		ug/L		89	72 - 128	1	30
1,1,2,2-Tetrachloroethane	20.0	24.6		ug/L		123	63 - 139	1	30
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	74 - 125	7	30
1,1-Dichloroethane	20.0	21.6		ug/L		108	73 - 130	0	30
1,1-Dichloroethene	20.0	17.3		ug/L		87	68 - 133	2	30
1,2-Dibromo-3-Chloropropane	20.0	20.4		ug/L		102	58 - 132	1	30
1,2-Dibromoethane	20.0	19.6		ug/L		98	79 - 126	8	30
1,4-Dioxane	400	406		ug/L		101	42 - 150	3	30
1,2-Dichloroethane	20.0	21.1		ug/L		106	66 - 129	7	30
1,2-Dichloropropane	20.0	22.3		ug/L		111	72 - 128	2	30
Acrolein	40.0	95.3	*+	ug/L		238	18 - 150	4	30
2-Butanone (MEK)	100	68.4		ug/L		68	65 - 142	1	30
Acrylonitrile	200	272		ug/L		136	57 - 146	3	30
2-Hexanone	100	112		ug/L		112	72 - 134	2	30
4-Methyl-2-pentanone (MIBK)	100	106		ug/L		106	77 - 130	4	30
Acetone	100	90.3		ug/L		90	60 - 133	4	30
Benzene	20.0	21.5		ug/L		108	71 - 126	1	30
Bromodichloromethane	20.0	19.0		ug/L		95	76 - 121	1	30
Bromoform	20.0	18.5		ug/L		93	58 - 128	4	30
Bromomethane	20.0	18.5		ug/L		93	33 - 150	6	30
Carbon disulfide	20.0	18.6		ug/L		93	35 - 150	2	30
Carbon tetrachloride	20.0	17.8		ug/L		89	65 - 131	3	30
Chlorobenzene	20.0	18.6		ug/L		93	80 - 120	1	30
Chloroethane	20.0	19.9		ug/L		99	54 - 150	3	30
Chloroform	20.0	19.4		ug/L		97	78 - 125	1	30
Chloromethane	20.0	24.3		ug/L		122	43 - 149	0	30
cis-1,2-Dichloroethene	20.0	17.3		ug/L		86	78 - 121	1	30
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	74 - 125	3	30
Dibromochloromethane	20.0	18.4		ug/L		92	73 - 121	6	30
Dichlorodifluoromethane	20.0	18.5		ug/L		92	38 - 144	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1017719/5
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.2		ug/L		96	78 - 120	2	30
Methyl acetate			40.0	62.7	*+	ug/L		157	50 - 147	1	30
tert-Butyl alcohol			200	197		ug/L		99	64 - 142	2	30
Methyl tert-butyl ether			20.0	20.8		ug/L		104	72 - 131	1	30
Methylene Chloride			20.0	18.0		ug/L		90	74 - 127	0	30
Styrene			20.0	18.9		ug/L		95	82 - 127	1	30
Tetrachloroethene			20.0	16.4		ug/L		82	70 - 127	5	30
Toluene			20.0	19.2		ug/L		96	78 - 120	3	30
Xylenes, Total			40.0	37.8		ug/L		94	80 - 120	0	30
trans-1,2-Dichloroethene			20.0	17.3		ug/L		86	70 - 126	0	30
trans-1,3-Dichloropropene			20.0	21.2		ug/L		106	71 - 127	1	30
Trichloroethene			20.0	17.5		ug/L		88	73 - 121	0	30
Trichlorofluoromethane			20.0	19.3		ug/L		97	62 - 134	1	30
Vinyl chloride			20.0	22.6		ug/L		113	55 - 144	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*
4-Bromofluorobenzene	*93*		*76 - 120*
Dibromofluoromethane (Surr)	*91*		*77 - 132*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 460-1018066/6
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/25/25 13:15	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/25/25 13:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/25/25 13:15	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/25/25 13:15	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/25/25 13:15	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/25/25 13:15	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/25/25 13:15	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/25/25 13:15	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/25/25 13:15	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/25/25 13:15	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/25/25 13:15	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/25/25 13:15	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/25/25 13:15	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/25/25 13:15	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/25/25 13:15	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/25/25 13:15	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			01/25/25 13:15	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/25/25 13:15	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/25/25 13:15	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/25/25 13:15	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			01/25/25 13:15	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/25/25 13:15	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018066/6
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/25/25 13:15	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/25/25 13:15	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/25/25 13:15	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/25/25 13:15	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/25/25 13:15	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/25/25 13:15	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/25/25 13:15	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/25/25 13:15	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/25/25 13:15	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/25/25 13:15	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/25/25 13:15	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			01/25/25 13:15	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/25/25 13:15	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/25/25 13:15	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/25/25 13:15	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/25/25 13:15	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/25/25 13:15	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/25/25 13:15	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/25/25 13:15	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/25/25 13:15	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/25/25 13:15	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/25/25 13:15	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/25/25 13:15	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/25/25 13:15	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/25/25 13:15	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/25/25 13:15	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/25/25 13:15	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/25/25 13:15	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/25/25 13:15	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*01/25/25 13:15*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*		*01/25/25 13:15*	*1*
4-Bromofluorobenzene	*90*		*71 - 128*		*01/25/25 13:15*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*		*01/25/25 13:15*	*1*
Toluene-d8 (Surr)	*89*		*71 - 126*		*01/25/25 13:15*	*1*

Lab Sample ID: LCS 460-1018066/2
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0156		mg/Kg		78	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0219		mg/Kg		110	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroetha ne	0.0200	0.0178		mg/Kg		89	75 - 121

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018066/2
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0200	0.0198		mg/Kg		99	80 - 120
1,1-Dichloroethane	0.0200	0.0167		mg/Kg		84	72 - 120
1,1-Dichloroethene	0.0200	0.0191		mg/Kg		96	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0193		mg/Kg		97	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0186		mg/Kg		93	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0238		mg/Kg		119	80 - 124
1,2-Dibromoethane	0.0200	0.0198		mg/Kg		99	79 - 120
1,2-Dichlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120
1,2-Dichloroethane	0.0200	0.0177		mg/Kg		88	70 - 123
1,2-Dichloropropane	0.0200	0.0173		mg/Kg		87	73 - 124
1,3-Dichlorobenzene	0.0200	0.0183		mg/Kg		92	80 - 120
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		93	80 - 120
2-Butanone (MEK)	0.100	0.0646		mg/Kg		65	64 - 128
2-Hexanone	0.100	0.0680	*-	mg/Kg		68	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0687	*-	mg/Kg		69	80 - 120
Acetone	0.100	0.0621		mg/Kg		62	58 - 122
Benzene	0.0200	0.0176		mg/Kg		88	75 - 120
Bromodichloromethane	0.0200	0.0172		mg/Kg		86	77 - 124
Bromoform	0.0200	0.0197		mg/Kg		98	61 - 125
Bromomethane	0.0200	0.0265		mg/Kg		133	37 - 150
Carbon disulfide	0.0200	0.0188		mg/Kg		94	57 - 133
Carbon tetrachloride	0.0200	0.0154		mg/Kg		77	66 - 127
Chlorobenzene	0.0200	0.0173		mg/Kg		87	80 - 120
Chlorobromomethane	0.0200	0.0206		mg/Kg		103	76 - 127
Chloroethane	0.0200	0.0173		mg/Kg		86	60 - 123
Chloroform	0.0200	0.0172		mg/Kg		86	79 - 126
Chloromethane	0.0200	0.0179		mg/Kg		89	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0188		mg/Kg		94	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0178		mg/Kg		89	75 - 120
Cyclohexane	0.0200	0.0186		mg/Kg		93	65 - 132
Dibromochloromethane	0.0200	0.0176		mg/Kg		88	72 - 120
Dichlorodifluoromethane	0.0200	0.0188		mg/Kg		94	45 - 129
Ethylbenzene	0.0200	0.0174		mg/Kg		87	80 - 120
Isopropylbenzene	0.0200	0.0162		mg/Kg		81	74 - 120
Methyl acetate	0.0400	0.0446		mg/Kg		112	57 - 120
Methyl tert-butyl ether	0.0200	0.0193		mg/Kg		96	74 - 125
Methylcyclohexane	0.0200	0.0179		mg/Kg		90	66 - 125
Methylene Chloride	0.0200	0.0188		mg/Kg		94	78 - 120
m-Xylene & p-Xylene	0.0200	0.0168		mg/Kg		84	80 - 120
o-Xylene	0.0200	0.0172		mg/Kg		86	80 - 120
Styrene	0.0200	0.0180		mg/Kg		90	80 - 120
Tetrachloroethene	0.0200	0.0170		mg/Kg		85	73 - 120
Toluene	0.0200	0.0170		mg/Kg		85	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0187		mg/Kg		94	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0179		mg/Kg		90	77 - 120
Trichloroethene	0.0200	0.0173		mg/Kg		87	80 - 120
Trichlorofluoromethane	0.0200	0.0164		mg/Kg		82	61 - 130
Vinyl chloride	0.0200	0.0212		mg/Kg		106	54 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018066/2
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*
4-Bromofluorobenzene	*87*		*71 - 128*
Dibromofluoromethane (Surr)	*100*		*50 - 150*
Toluene-d8 (Surr)	*88*		*71 - 126*

Lab Sample ID: LCSD 460-1018066/3
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0158		mg/Kg		79	78 - 120	1	30
1,1,2,2-Tetrachloroethane			0.0200	0.0227		mg/Kg		114	70 - 133	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0182		mg/Kg		91	75 - 121	2	30
1,1,2-Trichloroethane			0.0200	0.0200		mg/Kg		100	80 - 120	1	30
1,1-Dichloroethane			0.0200	0.0170		mg/Kg		85	72 - 120	2	30
1,1-Dichloroethene			0.0200	0.0189		mg/Kg		95	76 - 120	1	30
1,2,3-Trichlorobenzene			0.0200	0.0197		mg/Kg		98	77 - 137	2	30
1,2,4-Trichlorobenzene			0.0200	0.0185		mg/Kg		93	77 - 136	1	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0236		mg/Kg		118	80 - 124	1	30
1,2-Dibromoethane			0.0200	0.0202		mg/Kg		101	79 - 120	2	30
1,2-Dichlorobenzene			0.0200	0.0189		mg/Kg		94	80 - 120	0	30
1,2-Dichloroethane			0.0200	0.0175		mg/Kg		88	70 - 123	1	30
1,2-Dichloropropane			0.0200	0.0173		mg/Kg		87	73 - 124	0	30
1,3-Dichlorobenzene			0.0200	0.0185		mg/Kg		93	80 - 120	1	30
1,4-Dichlorobenzene			0.0200	0.0189		mg/Kg		94	80 - 120	2	30
2-Butanone (MEK)			0.100	0.0638		mg/Kg		64	64 - 128	1	30
2-Hexanone			0.100	0.0695	*-	mg/Kg		70	75 - 120	2	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0704	*-	mg/Kg		70	80 - 120	2	30
Acetone			0.100	0.0608		mg/Kg		61	58 - 122	2	30
Benzene			0.0200	0.0176		mg/Kg		88	75 - 120	0	30
Bromodichloromethane			0.0200	0.0170		mg/Kg		85	77 - 124	1	30
Bromoform			0.0200	0.0200		mg/Kg		100	61 - 125	2	30
Bromomethane			0.0200	0.0246		mg/Kg		123	37 - 150	8	30
Carbon disulfide			0.0200	0.0186		mg/Kg		93	57 - 133	1	30
Carbon tetrachloride			0.0200	0.0155		mg/Kg		77	66 - 127	1	30
Chlorobenzene			0.0200	0.0178		mg/Kg		89	80 - 120	3	30
Chlorobromomethane			0.0200	0.0211		mg/Kg		105	76 - 127	2	30
Chloroethane			0.0200	0.0158		mg/Kg		79	60 - 123	9	30
Chloroform			0.0200	0.0174		mg/Kg		87	79 - 126	1	30
Chloromethane			0.0200	0.0161		mg/Kg		81	46 - 122	10	30
cis-1,2-Dichloroethene			0.0200	0.0189		mg/Kg		94	80 - 123	0	30
cis-1,3-Dichloropropene			0.0200	0.0177		mg/Kg		88	75 - 120	1	30
Cyclohexane			0.0200	0.0184		mg/Kg		92	65 - 132	1	30
Dibromochloromethane			0.0200	0.0180		mg/Kg		90	72 - 120	2	30
Dichlorodifluoromethane			0.0200	0.0171		mg/Kg		86	45 - 129	9	30
Ethylbenzene			0.0200	0.0175		mg/Kg		88	80 - 120	1	30
Isopropylbenzene			0.0200	0.0165		mg/Kg		82	74 - 120	2	30
Methyl acetate			0.0400	0.0445		mg/Kg		111	57 - 120	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018066/3
Matrix: Solid
Analysis Batch: 1018066

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether			0.0200	0.0193		mg/Kg		97	74 - 125	0	30
Methylcyclohexane			0.0200	0.0183		mg/Kg		91	66 - 125	2	30
Methylene Chloride			0.0200	0.0186		mg/Kg		93	78 - 120	1	30
m-Xylene & p-Xylene			0.0200	0.0171		mg/Kg		85	80 - 120	1	30
o-Xylene			0.0200	0.0173		mg/Kg		86	80 - 120	1	30
Styrene			0.0200	0.0183		mg/Kg		91	80 - 120	2	30
Tetrachloroethene			0.0200	0.0171		mg/Kg		86	73 - 120	1	30
Toluene			0.0200	0.0172		mg/Kg		86	80 - 120	2	30
trans-1,2-Dichloroethene			0.0200	0.0186		mg/Kg		93	78 - 120	1	30
trans-1,3-Dichloropropene			0.0200	0.0182		mg/Kg		91	77 - 120	1	30
Trichloroethene			0.0200	0.0175		mg/Kg		88	80 - 120	1	30
Trichlorofluoromethane			0.0200	0.0145		mg/Kg		72	61 - 130	13	30
Vinyl chloride			0.0200	0.0190		mg/Kg		95	54 - 122	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 138*
4-Bromofluorobenzene	*86*		*71 - 128*
Dibromofluoromethane (Surr)	*98*		*50 - 150*
Toluene-d8 (Surr)	*87*		*71 - 126*

Lab Sample ID: MB 460-1018176/7
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/27/25 07:34	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/27/25 07:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/27/25 07:34	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/27/25 07:34	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/27/25 07:34	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/27/25 07:34	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/27/25 07:34	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/27/25 07:34	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/27/25 07:34	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/27/25 07:34	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/27/25 07:34	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/27/25 07:34	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/27/25 07:34	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/27/25 07:34	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/27/25 07:34	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/27/25 07:34	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			01/27/25 07:34	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/27/25 07:34	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/27/25 07:34	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/27/25 07:34	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			01/27/25 07:34	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/27/25 07:34	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/27/25 07:34	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018176/7
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/27/25 07:34	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/27/25 07:34	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/27/25 07:34	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/27/25 07:34	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/27/25 07:34	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/27/25 07:34	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/27/25 07:34	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/27/25 07:34	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/27/25 07:34	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/27/25 07:34	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			01/27/25 07:34	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/27/25 07:34	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/27/25 07:34	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/27/25 07:34	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/27/25 07:34	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/27/25 07:34	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/27/25 07:34	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/27/25 07:34	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/27/25 07:34	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/27/25 07:34	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/27/25 07:34	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/27/25 07:34	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/27/25 07:34	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/27/25 07:34	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/27/25 07:34	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/27/25 07:34	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/27/25 07:34	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/27/25 07:34	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*01/27/25 07:34*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 138*		*01/27/25 07:34*	*1*
4-Bromofluorobenzene	*98*		*71 - 128*		*01/27/25 07:34*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 150*		*01/27/25 07:34*	*1*
Toluene-d8 (Surr)	*101*		*71 - 126*		*01/27/25 07:34*	*1*

Lab Sample ID: LCS 460-1018176/3
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0169		mg/Kg		85	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0201		mg/Kg		101	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0185		mg/Kg		93	75 - 121
1,1,2-Trichloroethane	0.0200	0.0179		mg/Kg		90	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018176/3
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0200	0.0199		mg/Kg		100	72 - 120
1,1-Dichloroethene	0.0200	0.0170		mg/Kg		85	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0195		mg/Kg		98	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0195		mg/Kg		98	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0155	*-	mg/Kg		77	80 - 124
1,2-Dibromoethane	0.0200	0.0174		mg/Kg		87	79 - 120
1,2-Dichlorobenzene	0.0200	0.0184		mg/Kg		92	80 - 120
1,2-Dichloroethane	0.0200	0.0183		mg/Kg		92	70 - 123
1,2-Dichloropropane	0.0200	0.0194		mg/Kg		97	73 - 124
1,3-Dichlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		93	80 - 120
2-Butanone (MEK)	0.100	0.0830		mg/Kg		83	64 - 128
2-Hexanone	0.100	0.0832		mg/Kg		83	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0902		mg/Kg		90	80 - 120
Acetone	0.100	0.0919		mg/Kg		92	58 - 122
Benzene	0.0200	0.0194		mg/Kg		97	75 - 120
Bromodichloromethane	0.0200	0.0168		mg/Kg		84	77 - 124
Bromoform	0.0200	0.0138		mg/Kg		69	61 - 125
Bromomethane	0.0200	0.0193		mg/Kg		97	37 - 150
Carbon disulfide	0.0200	0.0199		mg/Kg		99	57 - 133
Carbon tetrachloride	0.0200	0.0167		mg/Kg		84	66 - 127
Chlorobenzene	0.0200	0.0181		mg/Kg		91	80 - 120
Chlorobromomethane	0.0200	0.0170		mg/Kg		85	76 - 127
Chloroethane	0.0200	0.0204		mg/Kg		102	60 - 123
Chloroform	0.0200	0.0183		mg/Kg		92	79 - 126
Chloromethane	0.0200	0.0223		mg/Kg		111	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0181		mg/Kg		90	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0165		mg/Kg		82	75 - 120
Cyclohexane	0.0200	0.0193		mg/Kg		97	65 - 132
Dibromochloromethane	0.0200	0.0161		mg/Kg		80	72 - 120
Dichlorodifluoromethane	0.0200	0.0188		mg/Kg		94	45 - 129
Ethylbenzene	0.0200	0.0178		mg/Kg		89	80 - 120
Isopropylbenzene	0.0200	0.0184		mg/Kg		92	74 - 120
Methyl acetate	0.0400	0.0418		mg/Kg		104	57 - 120
Methyl tert-butyl ether	0.0200	0.0169		mg/Kg		84	74 - 125
Methylcyclohexane	0.0200	0.0196		mg/Kg		98	66 - 125
Methylene Chloride	0.0200	0.0183		mg/Kg		92	78 - 120
m-Xylene & p-Xylene	0.0200	0.0178		mg/Kg		89	80 - 120
o-Xylene	0.0200	0.0178		mg/Kg		89	80 - 120
Styrene	0.0200	0.0168		mg/Kg		84	80 - 120
Tetrachloroethene	0.0200	0.0186		mg/Kg		93	73 - 120
Toluene	0.0200	0.0186		mg/Kg		93	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0182		mg/Kg		91	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0142	*-	mg/Kg		71	77 - 120
Trichloroethene	0.0200	0.0182		mg/Kg		91	80 - 120
Trichlorofluoromethane	0.0200	0.0176		mg/Kg		88	61 - 130
Vinyl chloride	0.0200	0.0203		mg/Kg		102	54 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018176/3
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 138*
4-Bromofluorobenzene	*95*		*71 - 128*
Dibromofluoromethane (Surr)	*95*		*50 - 150*
Toluene-d8 (Surr)	*102*		*71 - 126*

Lab Sample ID: LCSD 460-1018176/4
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0173		mg/Kg		86	78 - 120	2	30
1,1,2,2-Tetrachloroethane			0.0200	0.0204		mg/Kg		102	70 - 133	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0176		mg/Kg		88	75 - 121	5	30
1,1,2-Trichloroethane			0.0200	0.0187		mg/Kg		94	80 - 120	4	30
1,1-Dichloroethane			0.0200	0.0202		mg/Kg		101	72 - 120	1	30
1,1-Dichloroethene			0.0200	0.0170		mg/Kg		85	76 - 120	0	30
1,2,3-Trichlorobenzene			0.0200	0.0198		mg/Kg		99	77 - 137	1	30
1,2,4-Trichlorobenzene			0.0200	0.0190		mg/Kg		95	77 - 136	3	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0154	*-	mg/Kg		77	80 - 124	0	30
1,2-Dibromoethane			0.0200	0.0179		mg/Kg		89	79 - 120	3	30
1,2-Dichlorobenzene			0.0200	0.0184		mg/Kg		92	80 - 120	0	30
1,2-Dichloroethane			0.0200	0.0184		mg/Kg		92	70 - 123	0	30
1,2-Dichloropropane			0.0200	0.0197		mg/Kg		99	73 - 124	2	30
1,3-Dichlorobenzene			0.0200	0.0188		mg/Kg		94	80 - 120	0	30
1,4-Dichlorobenzene			0.0200	0.0183		mg/Kg		91	80 - 120	1	30
2-Butanone (MEK)			0.100	0.0813		mg/Kg		81	64 - 128	2	30
2-Hexanone			0.100	0.0872		mg/Kg		87	75 - 120	5	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0889		mg/Kg		89	80 - 120	1	30
Acetone			0.100	0.0850		mg/Kg		85	58 - 122	8	30
Benzene			0.0200	0.0193		mg/Kg		97	75 - 120	0	30
Bromodichloromethane			0.0200	0.0175		mg/Kg		87	77 - 124	4	30
Bromoform			0.0200	0.0141		mg/Kg		71	61 - 125	2	30
Bromomethane			0.0200	0.0203		mg/Kg		102	37 - 150	5	30
Carbon disulfide			0.0200	0.0197		mg/Kg		98	57 - 133	1	30
Carbon tetrachloride			0.0200	0.0172		mg/Kg		86	66 - 127	3	30
Chlorobenzene			0.0200	0.0186		mg/Kg		93	80 - 120	3	30
Chlorobromomethane			0.0200	0.0175		mg/Kg		88	76 - 127	3	30
Chloroethane			0.0200	0.0209		mg/Kg		104	60 - 123	2	30
Chloroform			0.0200	0.0187		mg/Kg		93	79 - 126	2	30
Chloromethane			0.0200	0.0238		mg/Kg		119	46 - 122	7	30
cis-1,2-Dichloroethene			0.0200	0.0190		mg/Kg		95	80 - 123	5	30
cis-1,3-Dichloropropene			0.0200	0.0167		mg/Kg		84	75 - 120	1	30
Cyclohexane			0.0200	0.0199		mg/Kg		100	65 - 132	3	30
Dibromochloromethane			0.0200	0.0159		mg/Kg		80	72 - 120	1	30
Dichlorodifluoromethane			0.0200	0.0195		mg/Kg		98	45 - 129	4	30
Ethylbenzene			0.0200	0.0186		mg/Kg		93	80 - 120	4	30
Isopropylbenzene			0.0200	0.0184		mg/Kg		92	74 - 120	0	30
Methyl acetate			0.0400	0.0425		mg/Kg		106	57 - 120	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018176/4
Matrix: Solid
Analysis Batch: 1018176

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether			0.0200	0.0173		mg/Kg		87	74 - 125	3	30
Methylcyclohexane			0.0200	0.0201		mg/Kg		100	66 - 125	3	30
Methylene Chloride			0.0200	0.0182		mg/Kg		91	78 - 120	1	30
m-Xylene & p-Xylene			0.0200	0.0183		mg/Kg		92	80 - 120	3	30
o-Xylene			0.0200	0.0178		mg/Kg		89	80 - 120	0	30
Styrene			0.0200	0.0172		mg/Kg		86	80 - 120	3	30
Tetrachloroethene			0.0200	0.0183		mg/Kg		91	73 - 120	1	30
Toluene			0.0200	0.0185		mg/Kg		93	80 - 120	0	30
trans-1,2-Dichloroethene			0.0200	0.0186		mg/Kg		93	78 - 120	2	30
trans-1,3-Dichloropropene			0.0200	0.0141	*-	mg/Kg		71	77 - 120	1	30
Trichloroethene			0.0200	0.0188		mg/Kg		94	80 - 120	3	30
Trichlorofluoromethane			0.0200	0.0190		mg/Kg		95	61 - 130	7	30
Vinyl chloride			0.0200	0.0210		mg/Kg		105	54 - 122	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*
4-Bromofluorobenzene	*98*		*71 - 128*
Dibromofluoromethane (Surr)	*97*		*50 - 150*
Toluene-d8 (Surr)	*101*		*71 - 126*

Lab Sample ID: MB 460-1024023/7
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 23:47	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/04/25 23:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/04/25 23:47	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 23:47	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/04/25 23:47	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 23:47	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 23:47	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 23:47	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			03/04/25 23:47	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 23:47	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 23:47	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/04/25 23:47	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			03/04/25 23:47	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			03/04/25 23:47	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 23:47	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			03/04/25 23:47	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			03/04/25 23:47	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			03/04/25 23:47	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			03/04/25 23:47	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			03/04/25 23:47	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			03/04/25 23:47	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			03/04/25 23:47	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			03/04/25 23:47	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1024023/7
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 23:47	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			03/04/25 23:47	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 23:47	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			03/04/25 23:47	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			03/04/25 23:47	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			03/04/25 23:47	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			03/04/25 23:47	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 23:47	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 23:47	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			03/04/25 23:47	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			03/04/25 23:47	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			03/04/25 23:47	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			03/04/25 23:47	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			03/04/25 23:47	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			03/04/25 23:47	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			03/04/25 23:47	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			03/04/25 23:47	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			03/04/25 23:47	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			03/04/25 23:47	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			03/04/25 23:47	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			03/04/25 23:47	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			03/04/25 23:47	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 23:47	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			03/04/25 23:47	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 23:47	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			03/04/25 23:47	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			03/04/25 23:47	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			03/04/25 23:47	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*03/04/25 23:47*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*		*03/04/25 23:47*	*1*
4-Bromofluorobenzene	*105*		*71 - 128*		*03/04/25 23:47*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 150*		*03/04/25 23:47*	*1*
Toluene-d8 (Surr)	*107*		*71 - 126*		*03/04/25 23:47*	*1*

Lab Sample ID: LCS 460-1024023/2
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0183		mg/Kg		91	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0200		mg/Kg		100	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0212		mg/Kg		106	75 - 121
1,1,2-Trichloroethane	0.0200	0.0202		mg/Kg		101	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1024023/2
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0200	0.0198		mg/Kg		99	72 - 120
1,1-Dichloroethene	0.0200	0.0205		mg/Kg		103	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0176		mg/Kg		88	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0170		mg/Kg		85	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0167		mg/Kg		84	80 - 124
1,2-Dibromoethane	0.0200	0.0179		mg/Kg		90	79 - 120
1,2-Dichlorobenzene	0.0200	0.0185		mg/Kg		93	80 - 120
1,2-Dichloroethane	0.0200	0.0169		mg/Kg		84	70 - 123
1,2-Dichloropropane	0.0200	0.0192		mg/Kg		96	73 - 124
1,3-Dichlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 120
1,4-Dichlorobenzene	0.0200	0.0189		mg/Kg		95	80 - 120
2-Butanone (MEK)	0.100	0.0921		mg/Kg		92	64 - 128
2-Hexanone	0.100	0.0854		mg/Kg		85	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0893		mg/Kg		89	80 - 120
Acetone	0.100	0.0869		mg/Kg		87	58 - 122
Benzene	0.0200	0.0210		mg/Kg		105	75 - 120
Bromodichloromethane	0.0200	0.0179		mg/Kg		90	77 - 124
Bromoform	0.0200	0.0159		mg/Kg		79	61 - 125
Bromomethane	0.0200	0.0500	*+	mg/Kg		250	37 - 150
Carbon disulfide	0.0200	0.0194		mg/Kg		97	57 - 133
Carbon tetrachloride	0.0200	0.0173		mg/Kg		87	66 - 127
Chlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120
Chlorobromomethane	0.0200	0.0177		mg/Kg		88	76 - 127
Chloroethane	0.0200	0.0194		mg/Kg		97	60 - 123
Chloroform	0.0200	0.0190		mg/Kg		95	79 - 126
Chloromethane	0.0200	0.0177		mg/Kg		89	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0192		mg/Kg		96	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0189		mg/Kg		95	75 - 120
Cyclohexane	0.0200	0.0200		mg/Kg		100	65 - 132
Dibromochloromethane	0.0200	0.0169		mg/Kg		84	72 - 120
Dichlorodifluoromethane	0.0200	0.0144		mg/Kg		72	45 - 129
Ethylbenzene	0.0200	0.0190		mg/Kg		95	80 - 120
Isopropylbenzene	0.0200	0.0185		mg/Kg		92	74 - 120
Methyl acetate	0.0400	0.0367		mg/Kg		92	57 - 120
Methyl tert-butyl ether	0.0200	0.0180		mg/Kg		90	74 - 125
Methylcyclohexane	0.0200	0.0195		mg/Kg		98	66 - 125
Methylene Chloride	0.0200	0.0182		mg/Kg		91	78 - 120
m-Xylene & p-Xylene	0.0200	0.0182		mg/Kg		91	80 - 120
o-Xylene	0.0200	0.0189		mg/Kg		95	80 - 120
Styrene	0.0200	0.0183		mg/Kg		91	80 - 120
Tetrachloroethene	0.0200	0.0186		mg/Kg		93	73 - 120
Toluene	0.0200	0.0203		mg/Kg		102	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0194		mg/Kg		97	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0170		mg/Kg		85	77 - 120
Trichloroethene	0.0200	0.0188		mg/Kg		94	80 - 120
Trichlorofluoromethane	0.0200	0.0190		mg/Kg		95	61 - 130
Vinyl chloride	0.0200	0.0203		mg/Kg		101	54 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1024023/2
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*
4-Bromofluorobenzene	*99*		*71 - 128*
Dibromofluoromethane (Surr)	*100*		*50 - 150*
Toluene-d8 (Surr)	*107*		*71 - 126*

Lab Sample ID: LCSD 460-1024023/3
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0183		mg/Kg		92	78 - 120	0	30
1,1,2,2-Tetrachloroethane			0.0200	0.0201		mg/Kg		100	70 - 133	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0210		mg/Kg		105	75 - 121	1	30
1,1,2-Trichloroethane			0.0200	0.0191		mg/Kg		95	80 - 120	5	30
1,1-Dichloroethane			0.0200	0.0196		mg/Kg		98	72 - 120	1	30
1,1-Dichloroethene			0.0200	0.0207		mg/Kg		103	76 - 120	1	30
1,2,3-Trichlorobenzene			0.0200	0.0166		mg/Kg		83	77 - 137	6	30
1,2,4-Trichlorobenzene			0.0200	0.0155		mg/Kg		78	77 - 136	9	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0156	*-	mg/Kg		78	80 - 124	7	30
1,2-Dibromoethane			0.0200	0.0172		mg/Kg		86	79 - 120	4	30
1,2-Dichlorobenzene			0.0200	0.0178		mg/Kg		89	80 - 120	4	30
1,2-Dichloroethane			0.0200	0.0172		mg/Kg		86	70 - 123	2	30
1,2-Dichloropropane			0.0200	0.0187		mg/Kg		93	73 - 124	3	30
1,3-Dichlorobenzene			0.0200	0.0180		mg/Kg		90	80 - 120	7	30
1,4-Dichlorobenzene			0.0200	0.0182		mg/Kg		91	80 - 120	4	30
2-Butanone (MEK)			0.100	0.0870		mg/Kg		87	64 - 128	6	30
2-Hexanone			0.100	0.0836		mg/Kg		84	75 - 120	2	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0882		mg/Kg		88	80 - 120	1	30
Acetone			0.100	0.0852		mg/Kg		85	58 - 122	2	30
Benzene			0.0200	0.0207		mg/Kg		103	75 - 120	1	30
Bromodichloromethane			0.0200	0.0178		mg/Kg		89	77 - 124	1	30
Bromoform			0.0200	0.0148		mg/Kg		74	61 - 125	7	30
Bromomethane			0.0200	0.0523	*+	mg/Kg		262	37 - 150	5	30
Carbon disulfide			0.0200	0.0195		mg/Kg		98	57 - 133	0	30
Carbon tetrachloride			0.0200	0.0171		mg/Kg		85	66 - 127	2	30
Chlorobenzene			0.0200	0.0182		mg/Kg		91	80 - 120	5	30
Chlorobromomethane			0.0200	0.0176		mg/Kg		88	76 - 127	1	30
Chloroethane			0.0200	0.0195		mg/Kg		98	60 - 123	1	30
Chloroform			0.0200	0.0191		mg/Kg		96	79 - 126	0	30
Chloromethane			0.0200	0.0178		mg/Kg		89	46 - 122	1	30
cis-1,2-Dichloroethene			0.0200	0.0190		mg/Kg		95	80 - 123	1	30
cis-1,3-Dichloropropene			0.0200	0.0183		mg/Kg		92	75 - 120	3	30
Cyclohexane			0.0200	0.0193		mg/Kg		96	65 - 132	4	30
Dibromochloromethane			0.0200	0.0168		mg/Kg		84	72 - 120	0	30
Dichlorodifluoromethane			0.0200	0.0158		mg/Kg		79	45 - 129	10	30
Ethylbenzene			0.0200	0.0182		mg/Kg		91	80 - 120	4	30
Isopropylbenzene			0.0200	0.0178		mg/Kg		89	74 - 120	4	30
Methyl acetate			0.0400	0.0355		mg/Kg		89	57 - 120	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1024023/3
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether			0.0200	0.0182		mg/Kg		91	74 - 125	1	30
Methylcyclohexane			0.0200	0.0180		mg/Kg		90	66 - 125	8	30
Methylene Chloride			0.0200	0.0182		mg/Kg		91	78 - 120	0	30
m-Xylene & p-Xylene			0.0200	0.0174		mg/Kg		87	80 - 120	5	30
o-Xylene			0.0200	0.0180		mg/Kg		90	80 - 120	5	30
Styrene			0.0200	0.0178		mg/Kg		89	80 - 120	2	30
Tetrachloroethene			0.0200	0.0171		mg/Kg		85	73 - 120	8	30
Toluene			0.0200	0.0197		mg/Kg		98	80 - 120	3	30
trans-1,2-Dichloroethene			0.0200	0.0195		mg/Kg		98	78 - 120	1	30
trans-1,3-Dichloropropene			0.0200	0.0169		mg/Kg		84	77 - 120	1	30
Trichloroethene			0.0200	0.0184		mg/Kg		92	80 - 120	2	30
Trichlorofluoromethane			0.0200	0.0191		mg/Kg		95	61 - 130	0	30
Vinyl chloride			0.0200	0.0203		mg/Kg		102	54 - 122	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*
4-Bromofluorobenzene	*102*		*71 - 128*
Dibromofluoromethane (Surr)	*105*		*50 - 150*
Toluene-d8 (Surr)	*108*		*71 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-1017758/1-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		01/23/25 09:12	01/23/25 20:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1017758/1-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Phenol	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1017758/1-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		01/23/25 09:12	01/23/25 20:27	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*01/23/25 09:12*	*01/23/25 20:27*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*56*		*24 - 137*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
2-Fluorobiphenyl	*69*		*38 - 128*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
2-Fluorophenol (Surr)	*65*		*31 - 133*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
Nitrobenzene-d5 (Surr)	*64*		*31 - 120*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
Phenol-d5 (Surr)	*67*		*35 - 132*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
Terphenyl-d14 (Surr)	*71*		*44 - 147*	*01/23/25 09:12*	*01/23/25 20:27*	*1*

Lab Sample ID: LCS 460-1017758/2-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	2.75		mg/Kg		82	64 - 120
1,2,4-Trichlorobenzene	3.33	2.58		mg/Kg		77	63 - 120
1,2-Dichlorobenzene	3.33	2.54		mg/Kg		76	64 - 120
1,2-Diphenylhydrazine	3.33	2.72		mg/Kg		82	55 - 125
1,3-Dichlorobenzene	3.33	2.49		mg/Kg		75	62 - 120
1,4-Dichlorobenzene	3.33	2.53		mg/Kg		76	60 - 120
2,4,5-Trichlorophenol	3.33	2.78		mg/Kg		83	64 - 120
2,4,6-Trichlorophenol	3.33	2.87		mg/Kg		86	65 - 120
2,4-Dichlorophenol	3.33	2.67		mg/Kg		80	66 - 120
2,4-Dimethylphenol	3.33	3.11		mg/Kg		93	46 - 120
2,4-Dinitrophenol	6.67	4.30		mg/Kg		65	41 - 129
2,4-Dinitrotoluene	3.33	2.81		mg/Kg		84	65 - 124
2,6-Dinitrotoluene	3.33	2.80		mg/Kg		84	67 - 121
2-Chloronaphthalene	3.33	2.65		mg/Kg		79	64 - 120
2-Chlorophenol	3.33	2.60		mg/Kg		78	63 - 120
2-Methylnaphthalene	3.33	2.31		mg/Kg		69	64 - 120
2-Methylphenol	3.33	2.72		mg/Kg		82	63 - 120
2-Nitroaniline	3.33	2.67		mg/Kg		80	48 - 120
2-Nitrophenol	3.33	2.65		mg/Kg		79	64 - 120
3,3'-Dichlorobenzidine	3.33	1.16		mg/Kg		35	10 - 120
3-Nitroaniline	3.33	1.28		mg/Kg		38	18 - 122
4,6-Dinitro-2-methylphenol	6.67	5.89		mg/Kg		88	58 - 136
4-Bromophenyl phenyl ether	3.33	2.78		mg/Kg		83	60 - 120
4-Chloro-3-methylphenol	3.33	2.66		mg/Kg		80	66 - 120
4-Chloroaniline	3.33	0.460		mg/Kg		14	10 - 120
4-Chlorophenyl phenyl ether	3.33	2.70		mg/Kg		81	62 - 120
4-Methylphenol	3.33	2.51		mg/Kg		75	61 - 120
4-Nitroaniline	3.33	2.40		mg/Kg		72	51 - 120
4-Nitrophenol	6.67	5.52		mg/Kg		83	42 - 132
Acenaphthene	3.33	2.72		mg/Kg		82	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1017758/2-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	3.33	2.81		mg/Kg		84	64 - 120
Acetophenone	3.33	2.58		mg/Kg		77	61 - 120
Anthracene	3.33	2.77		mg/Kg		83	67 - 120
Atrazine	1.33	1.31		mg/Kg		98	32 - 150
Benzaldehyde	1.33	1.21		mg/Kg		90	28 - 150
Benzidine	3.33	1.29		mg/Kg		39	10 - 120
Benzo[a]anthracene	3.33	2.72		mg/Kg		82	66 - 120
Benzo[a]pyrene	3.33	3.02		mg/Kg		91	73 - 123
Benzo[b]fluoranthene	3.33	2.93		mg/Kg		88	70 - 125
Benzo[g,h,i]perylene	3.33	3.11		mg/Kg		93	66 - 120
Benzo[k]fluoranthene	3.33	2.92		mg/Kg		87	67 - 122
bis (2-chloroisopropyl) ether	3.33	2.58		mg/Kg		77	46 - 126
Bis(2-chloroethoxy)methane	3.33	2.60		mg/Kg		78	62 - 120
Bis(2-chloroethyl)ether	3.33	2.58		mg/Kg		77	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	2.75		mg/Kg		82	64 - 125
Butyl benzyl phthalate	3.33	2.65		mg/Kg		80	62 - 127
Caprolactam	1.33	1.15		mg/Kg		86	36 - 150
Carbazole	3.33	2.77		mg/Kg		83	64 - 120
Chrysene	3.33	2.67		mg/Kg		80	67 - 120
Dibenz(a,h)anthracene	3.33	3.00		mg/Kg		90	66 - 128
Dibenzofuran	3.33	2.62		mg/Kg		79	61 - 120
Diethyl phthalate	3.33	2.64		mg/Kg		79	63 - 120
Dimethyl phthalate	3.33	2.64		mg/Kg		79	65 - 120
Di-n-butyl phthalate	3.33	2.63		mg/Kg		79	66 - 120
Di-n-octyl phthalate	3.33	2.81		mg/Kg		84	61 - 123
Fluoranthene	3.33	2.68		mg/Kg		80	61 - 120
Fluorene	3.33	2.76		mg/Kg		83	64 - 120
Hexachlorobenzene	3.33	2.73		mg/Kg		82	66 - 120
Hexachlorobutadiene	3.33	2.50		mg/Kg		75	62 - 120
Hexachlorocyclopentadiene	3.33	3.91		mg/Kg		117	13 - 120
Hexachloroethane	3.33	2.57		mg/Kg		77	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.04		mg/Kg		91	71 - 137
Isophorone	3.33	2.63		mg/Kg		79	61 - 120
Naphthalene	3.33	2.56		mg/Kg		77	63 - 120
Nitrobenzene	3.33	2.63		mg/Kg		79	63 - 120
N-Nitrosodimethylamine	3.33	2.47		mg/Kg		74	57 - 120
N-Nitrosodi-n-propylamine	3.33	2.69		mg/Kg		81	56 - 120
N-Nitrosodiphenylamine	3.33	2.80		mg/Kg		84	63 - 120
Pentachlorophenol	6.67	5.69		mg/Kg		85	61 - 126
Phenanthrene	3.33	2.73		mg/Kg		82	66 - 120
Phenol	3.33	2.61		mg/Kg		78	63 - 120
Pyrene	3.33	2.73		mg/Kg		82	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*70*		*24 - 137*
2-Fluorobiphenyl	*74*		*38 - 128*
2-Fluorophenol (Surr)	*70*		*31 - 133*
Nitrobenzene-d5 (Surr)	*70*		*31 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1017758/2-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017758

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*72*		*35 - 132*
Terphenyl-d14 (Surr)	*72*		*44 - 147*

Lab Sample ID: LCSD 460-1017758/3-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	2.47		mg/Kg		74	64 - 120	11	30
1,2,4-Trichlorobenzene			3.33	2.37		mg/Kg		71	63 - 120	9	30
1,2-Dichlorobenzene			3.33	2.32		mg/Kg		70	64 - 120	9	30
1,2-Diphenylhydrazine			3.33	2.49		mg/Kg		75	55 - 125	9	30
1,3-Dichlorobenzene			3.33	2.28		mg/Kg		68	62 - 120	9	30
1,4-Dichlorobenzene			3.33	2.30		mg/Kg		69	60 - 120	10	30
2,4,5-Trichlorophenol			3.33	2.51		mg/Kg		75	64 - 120	10	30
2,4,6-Trichlorophenol			3.33	2.60		mg/Kg		78	65 - 120	10	30
2,4-Dichlorophenol			3.33	2.46		mg/Kg		74	66 - 120	8	30
2,4-Dimethylphenol			3.33	2.88		mg/Kg		86	46 - 120	8	30
2,4-Dinitrophenol			6.67	3.63		mg/Kg		54	41 - 129	17	30
2,4-Dinitrotoluene			3.33	2.58		mg/Kg		77	65 - 124	8	30
2,6-Dinitrotoluene			3.33	2.59		mg/Kg		78	67 - 121	8	30
2-Chloronaphthalene			3.33	2.40		mg/Kg		72	64 - 120	10	30
2-Chlorophenol			3.33	2.37		mg/Kg		71	63 - 120	9	30
2-Methylnaphthalene			3.33	2.11	*-	mg/Kg		63	64 - 120	9	30
2-Methylphenol			3.33	2.48		mg/Kg		74	63 - 120	9	30
2-Nitroaniline			3.33	2.49		mg/Kg		75	48 - 120	7	30
2-Nitrophenol			3.33	2.46		mg/Kg		74	64 - 120	7	30
3,3'-Dichlorobenzidine			3.33	1.09		mg/Kg		33	10 - 120	6	30
3-Nitroaniline			3.33	1.21		mg/Kg		36	18 - 122	6	30
4,6-Dinitro-2-methylphenol			6.67	5.15		mg/Kg		77	58 - 136	13	30
4-Bromophenyl phenyl ether			3.33	2.53		mg/Kg		76	60 - 120	9	30
4-Chloro-3-methylphenol			3.33	2.45		mg/Kg		74	66 - 120	8	30
4-Chloroaniline			3.33	0.421		mg/Kg		13	10 - 120	9	30
4-Chlorophenyl phenyl ether			3.33	2.43		mg/Kg		73	62 - 120	10	30
4-Methylphenol			3.33	2.36		mg/Kg		71	61 - 120	6	30
4-Nitroaniline			3.33	2.22		mg/Kg		67	51 - 120	7	30
4-Nitrophenol			6.67	5.15		mg/Kg		77	42 - 132	7	30
Acenaphthene			3.33	2.44		mg/Kg		73	65 - 120	11	30
Acenaphthylene			3.33	2.57		mg/Kg		77	64 - 120	9	30
Acetophenone			3.33	2.38		mg/Kg		71	61 - 120	8	30
Anthracene			3.33	2.54		mg/Kg		76	67 - 120	9	30
Atrazine			1.33	1.24		mg/Kg		93	32 - 150	6	30
Benzaldehyde			1.33	1.06		mg/Kg		79	28 - 150	13	30
Benzidine			3.33	1.24		mg/Kg		37	10 - 120	4	30
Benzo[a]anthracene			3.33	2.54		mg/Kg		76	66 - 120	7	30
Benzo[a]pyrene			3.33	2.79		mg/Kg		84	73 - 123	8	30
Benzo[b]fluoranthene			3.33	2.65		mg/Kg		79	70 - 125	10	30
Benzo[g,h,i]perylene			3.33	2.87		mg/Kg		86	66 - 120	8	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1017758/3-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[k]fluoranthene			3.33	2.74		mg/Kg		82	67 - 122	6	30
bis (2-chloroisopropyl) ether			3.33	2.35		mg/Kg		70	46 - 126	10	30
Bis(2-chloroethoxy)methane			3.33	2.40		mg/Kg		72	62 - 120	8	30
Bis(2-chloroethyl)ether			3.33	2.37		mg/Kg		71	60 - 120	9	30
Bis(2-ethylhexyl) phthalate			3.33	2.56		mg/Kg		77	64 - 125	7	30
Butyl benzyl phthalate			3.33	2.43		mg/Kg		73	62 - 127	9	30
Caprolactam			1.33	1.22		mg/Kg		92	36 - 150	6	30
Carbazole			3.33	2.54		mg/Kg		76	64 - 120	9	30
Chrysene			3.33	2.48		mg/Kg		74	67 - 120	8	30
Dibenz(a,h)anthracene			3.33	2.76		mg/Kg		83	66 - 128	8	30
Dibenzofuran			3.33	2.42		mg/Kg		72	61 - 120	8	30
Diethyl phthalate			3.33	2.39		mg/Kg		72	63 - 120	10	30
Dimethyl phthalate			3.33	2.41		mg/Kg		72	65 - 120	9	30
Di-n-butyl phthalate			3.33	2.41		mg/Kg		72	66 - 120	9	30
Di-n-octyl phthalate			3.33	2.56		mg/Kg		77	61 - 123	9	30
Fluoranthene			3.33	2.51		mg/Kg		75	61 - 120	7	30
Fluorene			3.33	2.49		mg/Kg		75	64 - 120	10	30
Hexachlorobenzene			3.33	2.50		mg/Kg		75	66 - 120	9	30
Hexachlorobutadiene			3.33	2.27		mg/Kg		68	62 - 120	10	30
Hexachlorocyclopentadiene			3.33	3.31		mg/Kg		99	13 - 120	16	30
Hexachloroethane			3.33	2.34		mg/Kg		70	61 - 120	9	30
Indeno[1,2,3-cd]pyrene			3.33	2.89		mg/Kg		87	71 - 137	5	30
Isophorone			3.33	2.40		mg/Kg		72	61 - 120	9	30
Naphthalene			3.33	2.33		mg/Kg		70	63 - 120	9	30
Nitrobenzene			3.33	2.43		mg/Kg		73	63 - 120	8	30
N-Nitrosodimethylamine			3.33	2.23		mg/Kg		67	57 - 120	10	30
N-Nitrosodi-n-propylamine			3.33	2.47		mg/Kg		74	56 - 120	9	30
N-Nitrosodiphenylamine			3.33	2.53		mg/Kg		76	63 - 120	10	30
Pentachlorophenol			6.67	5.25		mg/Kg		79	61 - 126	8	30
Phenanthrene			3.33	2.52		mg/Kg		76	66 - 120	8	30
Phenol			3.33	2.39		mg/Kg		72	63 - 120	9	30
Pyrene			3.33	2.52		mg/Kg		76	61 - 121	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*63*		*24 - 137*
2-Fluorobiphenyl	*66*		*38 - 128*
2-Fluorophenol (Surr)	*62*		*31 - 133*
Nitrobenzene-d5 (Surr)	*63*		*31 - 120*
Phenol-d5 (Surr)	*65*		*35 - 132*
Terphenyl-d14 (Surr)	*65*		*44 - 147*

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.012	U F1	3.38	1.69	F1	mg/Kg	☼	50	64 - 120
1,2,4-Trichlorobenzene	0.0086	U F1	3.38	1.84	F1	mg/Kg	☼	55	63 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	0.0057	U F1	3.38	1.84	F1	mg/Kg	☼	55	64 - 120
1,2-Diphenylhydrazine	0.013	U F1	3.38	1.47	F1	mg/Kg	☼	44	55 - 125
1,3-Dichlorobenzene	0.010	U F1	3.38	1.81	F1	mg/Kg	☼	54	62 - 120
1,4-Dichlorobenzene	0.013	U F1	3.38	1.83	F1	mg/Kg	☼	54	60 - 120
2,4,5-Trichlorophenol	0.034	U F1	3.38	1.36	F1	mg/Kg	☼	40	64 - 120
2,4,6-Trichlorophenol	0.043	U F1	3.38	1.53	F1	mg/Kg	☼	45	65 - 120
2,4-Dichlorophenol	0.022	U F1	3.38	1.52	F1	mg/Kg	☼	45	66 - 120
2,4-Dimethylphenol	0.040	U	3.38	1.76		mg/Kg	☼	52	46 - 120
2,4-Dinitrophenol	0.16	U F1	6.75	0.879	F1	mg/Kg	☼	13	41 - 129
2,4-Dinitrotoluene	0.036	U F1	3.38	1.26	F1	mg/Kg	☼	37	65 - 124
2,6-Dinitrotoluene	0.024	U F1	3.38	1.33	F1	mg/Kg	☼	40	67 - 121
2-Chloronaphthalene	0.016	U F1	3.38	1.69	F1	mg/Kg	☼	50	64 - 120
2-Chlorophenol	0.012	U F1	3.38	1.72	F1	mg/Kg	☼	51	63 - 120
2-Methylnaphthalene	0.0094	U *- F1	3.38	1.52	F1	mg/Kg	☼	45	64 - 120
2-Methylphenol	0.013	U F1	3.38	1.64	F1	mg/Kg	☼	48	63 - 120
2-Nitroaniline	0.026	U F1	3.38	1.31	F1	mg/Kg	☼	39	48 - 120
2-Nitrophenol	0.034	U F1	3.38	1.68	F1	mg/Kg	☼	50	64 - 120
3,3'-Dichlorobenzidine	0.051	U F2	3.38	0.864		mg/Kg	☼	26	10 - 120
3-Nitroaniline	0.080	U F2	3.38	0.998		mg/Kg	☼	30	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U F1	6.75	1.40	F1	mg/Kg	☼	21	58 - 136
4-Bromophenyl phenyl ether	0.013	U F1	3.38	1.42	F1	mg/Kg	☼	42	60 - 120
4-Chloro-3-methylphenol	0.019	U F1	3.38	1.27	F1	mg/Kg	☼	38	66 - 120
4-Chloroaniline	0.060	U	3.38	1.25		mg/Kg	☼	37	10 - 120
4-Chlorophenyl phenyl ether	0.012	U F1	3.38	1.53	F1	mg/Kg	☼	45	62 - 120
4-Methylphenol	0.021	U F1	3.38	1.47	F1	mg/Kg	☼	43	61 - 120
4-Nitroaniline	0.039	U F1 F2	3.38	0.959	F1	mg/Kg	☼	28	51 - 120
4-Nitrophenol	0.055	U F1 F2	6.75	1.92	F1	mg/Kg	☼	28	42 - 132
Acenaphthene	0.0096	U F1	3.38	1.62	F1	mg/Kg	☼	48	65 - 120
Acenaphthylene	0.0096	U F1	3.38	1.67	F1	mg/Kg	☼	49	64 - 120
Acetophenone	0.016	U F1	3.38	1.72	F1	mg/Kg	☼	51	61 - 120
Anthracene	0.010	U F1	3.38	1.40	F1	mg/Kg	☼	41	67 - 120
Atrazine	0.020	U F2	1.35	0.497		mg/Kg	☼	37	32 - 150
Benzaldehyde	0.055	U	1.35	0.887		mg/Kg	☼	66	28 - 150
Benzidine	0.070	U F2	3.38	0.359		mg/Kg	☼	11	10 - 120
Benzo[a]anthracene	0.025	U F1 F2	3.38	1.03	F1	mg/Kg	☼	31	66 - 120
Benzo[a]pyrene	0.0089	U F1 F2	3.38	1.05	F1	mg/Kg	☼	31	73 - 123
Benzo[b]fluoranthene	0.0087	U F1 F2	3.38	1.01	F1	mg/Kg	☼	30	70 - 125
Benzo[g,h,i]perylene	0.0099	U F1 F2	3.38	1.01	F1	mg/Kg	☼	30	66 - 120
Benzo[k]fluoranthene	0.0066	U F1 F2	3.38	1.04	F1	mg/Kg	☼	31	67 - 122
bis (2-chloroisopropyl) ether	0.020	U F1	3.38	1.80		mg/Kg	☼	53	46 - 126
Bis(2-chloroethoxy)methane	0.026	U F1	3.38	1.28	F1	mg/Kg	☼	38	62 - 120
Bis(2-chloroethyl)ether	0.012	U F1	3.38	1.80	F1	mg/Kg	☼	53	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U F1 F2	3.38	0.955	F1	mg/Kg	☼	28	64 - 125
Butyl benzyl phthalate	0.016	U F1 F2	3.38	0.870	F1	mg/Kg	☼	26	62 - 127
Caprolactam	0.052	U F2	1.35	0.480		mg/Kg	☼	36	36 - 150
Carbazole	0.013	U F1 F2	3.38	1.09	F1	mg/Kg	☼	32	64 - 120
Chrysene	0.014	U F1 F2	3.38	1.02	F1	mg/Kg	☼	30	67 - 120
Dibenz(a,h)anthracene	0.015	U F1 F2	3.38	0.985	F1	mg/Kg	☼	29	66 - 128
Dibenzofuran	0.011	U F1	3.38	1.55	F1	mg/Kg	☼	46	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diethyl phthalate	0.011	U F1 F2	3.38	1.18	F1	mg/Kg	☼	35	63 - 120
Dimethyl phthalate	0.076	U F1	3.38	1.25	F1	mg/Kg	☼	37	65 - 120
Di-n-butyl phthalate	0.013	U F1 F2	3.38	1.04	F1	mg/Kg	☼	31	66 - 120
Di-n-octyl phthalate	0.018	U F1 F2	3.38	0.899	F1	mg/Kg	☼	27	61 - 123
Fluoranthene	0.012	U F1 F2	3.38	1.18	F1	mg/Kg	☼	35	61 - 120
Fluorene	0.0098	U F1	3.38	1.55	F1	mg/Kg	☼	46	64 - 120
Hexachlorobenzene	0.016	U F1	3.38	1.56	F1	mg/Kg	☼	46	66 - 120
Hexachlorobutadiene	0.0071	U F1	3.38	1.78	F1	mg/Kg	☼	53	62 - 120
Hexachlorocyclopentadiene	0.029	U	3.38	2.45		mg/Kg	☼	73	13 - 120
Hexachloroethane	0.012	U F1	3.38	1.82	F1	mg/Kg	☼	54	61 - 120
Indeno[1,2,3-cd]pyrene	0.013	U F1 F2	3.38	0.956	F1	mg/Kg	☼	28	71 - 137
Isophorone	0.097	U F1	3.38	1.59	F1	mg/Kg	☼	47	61 - 120
Naphthalene	0.0058	U F1	3.38	1.78	F1	mg/Kg	☼	53	63 - 120
Nitrobenzene	0.019	U F1	3.38	1.75	F1	mg/Kg	☼	52	63 - 120
N-Nitrosodimethylamine	0.031	U F1	3.38	1.69	F1	mg/Kg	☼	50	57 - 120
N-Nitrosodi-n-propylamine	0.024	U F1	3.38	1.75	F1	mg/Kg	☼	52	56 - 120
N-Nitrosodiphenylamine	0.028	U F1	3.38	1.32	F1	mg/Kg	☼	39	63 - 120
Pentachlorophenol	0.069	U F1 F2	6.75	2.32	F1	mg/Kg	☼	34	61 - 126
Phenanthrene	0.014	U F1	3.38	1.39	F1	mg/Kg	☼	41	66 - 120
Phenol	0.012	U F1	3.38	1.56	F1	mg/Kg	☼	46	63 - 120
Pyrene	0.0083	U F1 F2	3.38	1.18	F1	mg/Kg	☼	35	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*32*		*24 - 137*
2-Fluorobiphenyl	*45*		*38 - 128*
2-Fluorophenol (Surr)	*45*		*31 - 133*
Nitrobenzene-d5 (Surr)	*44*		*31 - 120*
Phenol-d5 (Surr)	*40*		*35 - 132*
Terphenyl-d14 (Surr)	*29*	*S1-*	*44 - 147*

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U F1	3.38	1.64	F1	mg/Kg	☼	49	64 - 120	3	30
1,2,4-Trichlorobenzene	0.0086	U F1	3.38	1.55	F1	mg/Kg	☼	46	63 - 120	17	30
1,2-Dichlorobenzene	0.0057	U F1	3.38	1.51	F1	mg/Kg	☼	45	64 - 120	20	30
1,2-Diphenylhydrazine	0.013	U F1	3.38	1.71	F1	mg/Kg	☼	50	55 - 125	15	30
1,3-Dichlorobenzene	0.010	U F1	3.38	1.45	F1	mg/Kg	☼	43	62 - 120	22	30
1,4-Dichlorobenzene	0.013	U F1	3.38	1.47	F1	mg/Kg	☼	43	60 - 120	22	30
2,4,5-Trichlorophenol	0.034	U F1	3.38	1.68	F1	mg/Kg	☼	50	64 - 120	21	30
2,4,6-Trichlorophenol	0.043	U F1	3.38	1.71	F1	mg/Kg	☼	51	65 - 120	11	30
2,4-Dichlorophenol	0.022	U F1	3.38	1.67	F1	mg/Kg	☼	49	66 - 120	9	30
2,4-Dimethylphenol	0.040	U	3.38	1.93		mg/Kg	☼	57	46 - 120	9	30
2,4-Dinitrophenol	0.16	U F1	6.77	0.913	F1	mg/Kg	☼	13	41 - 129	4	30
2,4-Dinitrotoluene	0.036	U F1	3.38	1.71	F1	mg/Kg	☼	51	65 - 124	30	30
2,6-Dinitrotoluene	0.024	U F1	3.38	1.73	F1	mg/Kg	☼	51	67 - 121	26	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene	0.016	U F1	3.38	1.58	F1	mg/Kg	☼	47	64 - 120	6	30
2-Chlorophenol	0.012	U F1	3.38	1.59	F1	mg/Kg	☼	47	63 - 120	8	30
2-Methylnaphthalene	0.0094	U *- F1	3.38	1.43	F1	mg/Kg	☼	42	64 - 120	7	30
2-Methylphenol	0.013	U F1	3.38	1.67	F1	mg/Kg	☼	49	63 - 120	2	30
2-Nitroaniline	0.026	U F1	3.38	1.64		mg/Kg	☼	49	48 - 120	23	30
2-Nitrophenol	0.034	U F1	3.38	1.57	F1	mg/Kg	☼	46	64 - 120	7	30
3,3'-Dichlorobenzidine	0.051	U F2	3.38	1.64	F2	mg/Kg	☼	49	10 - 120	62	30
3-Nitroaniline	0.080	U F2	3.38	1.59	F2	mg/Kg	☼	47	18 - 122	46	30
4,6-Dinitro-2-methylphenol	0.14	U F1	6.77	1.52	F1	mg/Kg	☼	22	58 - 136	9	30
4-Bromophenyl phenyl ether	0.013	U F1	3.38	1.73	F1	mg/Kg	☼	51	60 - 120	20	30
4-Chloro-3-methylphenol	0.019	U F1	3.38	1.64	F1	mg/Kg	☼	48	66 - 120	25	30
4-Chloroaniline	0.060	U	3.38	1.56		mg/Kg	☼	46	10 - 120	22	30
4-Chlorophenyl phenyl ether	0.012	U F1	3.38	1.63	F1	mg/Kg	☼	48	62 - 120	6	30
4-Methylphenol	0.021	U F1	3.38	1.59	F1	mg/Kg	☼	47	61 - 120	8	30
4-Nitroaniline	0.039	U F1 F2	3.38	1.57	F1 F2	mg/Kg	☼	47	51 - 120	49	30
4-Nitrophenol	0.055	U F1 F2	6.77	3.23	F2	mg/Kg	☼	48	42 - 132	51	30
Acenaphthene	0.0096	U F1	3.38	1.63	F1	mg/Kg	☼	48	65 - 120	1	30
Acenaphthylene	0.0096	U F1	3.38	1.70	F1	mg/Kg	☼	50	64 - 120	2	30
Acetophenone	0.016	U F1	3.38	1.58	F1	mg/Kg	☼	47	61 - 120	9	30
Anthracene	0.010	U F1	3.38	1.74	F1	mg/Kg	☼	51	67 - 120	22	30
Atrazine	0.020	U F2	1.35	0.818	F2	mg/Kg	☼	60	32 - 150	49	30
Benzaldehyde	0.055	U	1.35	0.702		mg/Kg	☼	52	28 - 150	23	30
Benzidine	0.070	U F2	3.38	0.631	F2	mg/Kg	☼	19	10 - 120	55	30
Benzo[a]anthracene	0.025	U F1 F2	3.38	1.70	F1 F2	mg/Kg	☼	50	66 - 120	49	30
Benzo[a]pyrene	0.0089	U F1 F2	3.38	1.87	F1 F2	mg/Kg	☼	55	73 - 123	56	30
Benzo[b]fluoranthene	0.0087	U F1 F2	3.38	1.78	F1 F2	mg/Kg	☼	53	70 - 125	56	30
Benzo[g,h,i]perylene	0.0099	U F1 F2	3.38	1.87	F1 F2	mg/Kg	☼	55	66 - 120	60	30
Benzo[k]fluoranthene	0.0066	U F1 F2	3.38	1.80	F1 F2	mg/Kg	☼	53	67 - 122	53	30
bis (2-chloroisopropyl) ether	0.020	U F1	3.38	1.50	F1	mg/Kg	☼	44	46 - 126	18	30
Bis(2-chloroethoxy)methane	0.026	U F1	3.38	1.57	F1	mg/Kg	☼	46	62 - 120	20	30
Bis(2-chloroethyl)ether	0.012	U F1	3.38	1.54	F1	mg/Kg	☼	46	60 - 120	15	30
Bis(2-ethylhexyl) phthalate	0.018	U F1 F2	3.38	1.70	F1 F2	mg/Kg	☼	50	64 - 125	56	30
Butyl benzyl phthalate	0.016	U F1 F2	3.38	1.62	F1 F2	mg/Kg	☼	48	62 - 127	60	30
Caprolactam	0.052	U F2	1.35	0.770	F2	mg/Kg	☼	57	36 - 150	46	30
Carbazole	0.013	U F1 F2	3.38	1.73	F1 F2	mg/Kg	☼	51	64 - 120	45	30
Chrysene	0.014	U F1 F2	3.38	1.65	F1 F2	mg/Kg	☼	49	67 - 120	47	30
Dibenz(a,h)anthracene	0.015	U F1 F2	3.38	1.83	F1 F2	mg/Kg	☼	54	66 - 128	60	30
Dibenzofuran	0.011	U F1	3.38	1.61	F1	mg/Kg	☼	48	61 - 120	4	30
Diethyl phthalate	0.011	U F1 F2	3.38	1.60	F1 F2	mg/Kg	☼	47	63 - 120	31	30
Dimethyl phthalate	0.076	U F1	3.38	1.66	F1	mg/Kg	☼	49	65 - 120	28	30
Di-n-butyl phthalate	0.013	U F1 F2	3.38	1.63	F1 F2	mg/Kg	☼	48	66 - 120	44	30
Di-n-octyl phthalate	0.018	U F1 F2	3.38	1.68	F1 F2	mg/Kg	☼	50	61 - 123	61	30
Fluoranthene	0.012	U F1 F2	3.38	1.70	F1 F2	mg/Kg	☼	50	61 - 120	36	30
Fluorene	0.0098	U F1	3.38	1.68	F1	mg/Kg	☼	50	64 - 120	8	30
Hexachlorobenzene	0.016	U F1	3.38	1.71	F1	mg/Kg	☼	50	66 - 120	9	30
Hexachlorobutadiene	0.0071	U F1	3.38	1.47	F1	mg/Kg	☼	44	62 - 120	19	30
Hexachlorocyclopentadiene	0.029	U	3.38	2.32		mg/Kg	☼	69	13 - 120	5	30
Hexachloroethane	0.012	U F1	3.38	1.49	F1	mg/Kg	☼	44	61 - 120	20	30
Indeno[1,2,3-cd]pyrene	0.013	U F1 F2	3.38	1.82	F1 F2	mg/Kg	☼	54	71 - 137	62	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isophorone	0.097	U F1	3.38	1.61	F1	mg/Kg	☼	48	61 - 120	2	30
Naphthalene	0.0058	U F1	3.38	1.54	F1	mg/Kg	☼	46	63 - 120	14	30
Nitrobenzene	0.019	U F1	3.38	1.58	F1	mg/Kg	☼	47	63 - 120	10	30
N-Nitrosodimethylamine	0.031	U F1	3.38	1.54	F1	mg/Kg	☼	46	57 - 120	9	30
N-Nitrosodi-n-propylamine	0.024	U F1	3.38	1.65	F1	mg/Kg	☼	49	56 - 120	6	30
N-Nitrosodiphenylamine	0.028	U F1	3.38	1.76	F1	mg/Kg	☼	52	63 - 120	28	30
Pentachlorophenol	0.069	U F1 F2	6.77	3.24	F1 F2	mg/Kg	☼	48	61 - 126	33	30
Phenanthrene	0.014	U F1	3.38	1.72	F1	mg/Kg	☼	51	66 - 120	21	30
Phenol	0.012	U F1	3.38	1.65	F1	mg/Kg	☼	49	63 - 120	5	30
Pyrene	0.0083	U F1 F2	3.38	1.69	F1 F2	mg/Kg	☼	50	61 - 121	36	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*41*		*24 - 137*
2-Fluorobiphenyl	*42*		*38 - 128*
2-Fluorophenol (Surr)	*40*		*31 - 133*
Nitrobenzene-d5 (Surr)	*40*		*31 - 120*
Phenol-d5 (Surr)	*43*		*35 - 132*
Terphenyl-d14 (Surr)	*43*	*S1-*	*44 - 147*

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,2,4-Trichlorobenzene	0.64	U	2.0	0.64	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,2-Dichlorobenzene	0.50	U	10	0.50	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,2-Diphenylhydrazine	0.79	U	10	0.79	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,3-Dichlorobenzene	2.0	U	10	2.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,4-Dichlorobenzene	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dinitrophenol	11	U	40	11	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Chlorophenol	0.95	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Methylphenol	0.67	U	10	0.67	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Nitroaniline	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:24	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 21:24	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 21:24	1
4,6-Dinitro-2-methylphenol	8.6	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Chloro-3-methylphenol	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	1.9	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Methylphenol	0.65	U	10	0.65	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acenaphthene	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acenaphthylene	0.82	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acetophenone	2.3	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Anthracene	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Atrazine	1.3	U	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzaldehyde	2.1	U	10	2.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzidine	2.8	U	20	2.8	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 21:24	1
bis (2-chloroisopropyl) ether	0.63	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 21:24	1
Caprolactam	2.2	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
Carbazole	0.68	U	10	0.68	ug/L		01/23/25 10:04	01/23/25 21:24	1
Chrysene	0.91	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dibenzofuran	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 21:24	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 21:24	1
Di-n-octyl phthalate	4.0	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
Fluoranthene	0.84	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 21:24	1
Fluorene	0.91	U	10	0.91	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 21:24	1
Isophorone	0.80	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Naphthalene	0.54	U	2.0	0.54	ug/L		01/23/25 10:04	01/23/25 21:24	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 21:24	1
N-Nitrosodimethylamine	0.45	U	10	0.45	ug/L		01/23/25 10:04	01/23/25 21:24	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 21:24	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 21:24	1
Pentachlorophenol	6.6	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
Phenanthrene	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Phenol	0.29	U	10	0.29	ug/L		01/23/25 10:04	01/23/25 21:24	1
Pyrene	1.6	U	10	1.6	ug/L		01/23/25 10:04	01/23/25 21:24	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/23/25 10:04	01/23/25 21:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		37 - 150	01/23/25 10:04	01/23/25 21:24	1
2-Fluorobiphenyl	89		46 - 139	01/23/25 10:04	01/23/25 21:24	1
2-Fluorophenol (Surr)	54		16 - 80	01/23/25 10:04	01/23/25 21:24	1
Nitrobenzene-d5 (Surr)	91		51 - 145	01/23/25 10:04	01/23/25 21:24	1
Phenol-d5 (Surr)	36		10 - 56	01/23/25 10:04	01/23/25 21:24	1
Terphenyl-d14 (Surr)	30		13 - 159	01/23/25 10:04	01/23/25 21:24	1

Lab Sample ID: LCS 460-1017771/2-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	91.6		ug/L		115	52 - 129
1,2,4-Trichlorobenzene	80.0	87.9		ug/L		110	20 - 135
1,2-Dichlorobenzene	80.0	83.5		ug/L		104	18 - 128
1,2-Diphenylhydrazine	80.0	92.5		ug/L		116	58 - 130
1,3-Dichlorobenzene	80.0	82.3		ug/L		103	11 - 130
1,4-Dichlorobenzene	80.0	83.4		ug/L		104	14 - 129
2,4,5-Trichlorophenol	80.0	89.9		ug/L		112	63 - 124
2,4,6-Trichlorophenol	80.0	90.4		ug/L		113	66 - 131
2,4-Dichlorophenol	80.0	82.8		ug/L		104	60 - 120
2,4-Dimethylphenol	80.0	93.0		ug/L		116	37 - 120
2,4-Dinitrophenol	160	165		ug/L		103	50 - 148
2,4-Dinitrotoluene	80.0	97.0		ug/L		121	71 - 142
2,6-Dinitrotoluene	80.0	93.9		ug/L		117	71 - 136
2-Chloronaphthalene	80.0	89.4		ug/L		112	50 - 129
2-Chlorophenol	80.0	71.3		ug/L		89	49 - 120
2-Methylnaphthalene	80.0	77.8		ug/L		97	42 - 134
2-Methylphenol	80.0	64.3		ug/L		80	35 - 120
2-Nitroaniline	80.0	89.0		ug/L		111	57 - 134
2-Nitrophenol	80.0	85.9		ug/L		107	62 - 124
3,3'-Dichlorobenzidine	80.0	80.5		ug/L		101	55 - 145
3-Nitroaniline	80.0	71.5		ug/L		89	51 - 120
4,6-Dinitro-2-methylphenol	160	183		ug/L		115	65 - 145
4-Bromophenyl phenyl ether	80.0	90.6		ug/L		113	59 - 132
4-Chloro-3-methylphenol	80.0	77.1		ug/L		96	54 - 120
4-Chloroaniline	80.0	66.0		ug/L		82	43 - 120
4-Chlorophenyl phenyl ether	80.0	91.7		ug/L		115	65 - 127
4-Methylphenol	80.0	55.8		ug/L		70	28 - 120
4-Nitroaniline	80.0	88.7		ug/L		111	57 - 135
4-Nitrophenol	160	76.9		ug/L		48	10 - 120
Acenaphthene	80.0	91.0		ug/L		114	62 - 127
Acenaphthylene	80.0	96.2		ug/L		120	58 - 122
Acetophenone	80.0	86.4		ug/L		108	65 - 125
Anthracene	80.0	91.9		ug/L		115	67 - 127

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1017771/2-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	40.0	76.4	*+	ug/L		191	13 - 150
Benzaldehyde	40.0	65.0	*+	ug/L		163	10 - 150
Benzidine	80.0	12.3	J	ug/L		15	10 - 120
Benzo[a]anthracene	80.0	89.0		ug/L		111	71 - 131
Benzo[a]pyrene	80.0	107		ug/L		134	75 - 148
Benzo[b]fluoranthene	80.0	94.1		ug/L		118	70 - 140
Benzo[g,h,i]perylene	80.0	103		ug/L		129	52 - 143
Benzo[k]fluoranthene	80.0	101		ug/L		127	71 - 140
bis (2-chloroisopropyl) ether	80.0	83.8		ug/L		105	47 - 133
Bis(2-chloroethoxy)methane	80.0	88.6		ug/L		111	63 - 122
Bis(2-chloroethyl)ether	80.0	85.6		ug/L		107	61 - 125
Bis(2-ethylhexyl) phthalate	80.0	93.5		ug/L		117	65 - 144
Butyl benzyl phthalate	80.0	89.1		ug/L		111	67 - 141
Caprolactam	40.0	13.8		ug/L		35	10 - 120
Carbazole	80.0	91.4		ug/L		114	68 - 132
Chrysene	80.0	91.3		ug/L		114	70 - 132
Dibenz(a,h)anthracene	80.0	99.2		ug/L		124	53 - 150
Dibenzofuran	80.0	90.7		ug/L		113	64 - 125
Diethyl phthalate	80.0	88.0		ug/L		110	67 - 131
Dimethyl phthalate	80.0	91.1		ug/L		114	67 - 129
Di-n-butyl phthalate	80.0	88.1		ug/L		110	71 - 139
Di-n-octyl phthalate	80.0	92.9		ug/L		116	51 - 150
Fluoranthene	80.0	92.8		ug/L		116	69 - 137
Fluorene	80.0	94.0		ug/L		117	67 - 125
Hexachlorobenzene	80.0	90.9		ug/L		114	62 - 135
Hexachlorobutadiene	80.0	88.7		ug/L		111	10 - 147
Hexachlorocyclopentadiene	80.0	116	*+	ug/L		146	10 - 135
Hexachloroethane	80.0	86.5		ug/L		108	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	99.5		ug/L		124	59 - 150
Isophorone	80.0	91.9		ug/L		115	65 - 128
Naphthalene	80.0	88.3		ug/L		110	39 - 126
Nitrobenzene	80.0	91.0		ug/L		114	66 - 127
N-Nitrosodimethylamine	80.0	41.4		ug/L		52	11 - 120
N-Nitrosodi-n-propylamine	80.0	89.4		ug/L		112	63 - 133
N-Nitrosodiphenylamine	80.0	90.3		ug/L		113	66 - 128
Pentachlorophenol	160	180		ug/L		112	60 - 140
Phenanthrene	80.0	90.1		ug/L		113	68 - 126
Phenol	80.0	31.0		ug/L		39	10 - 80
Pyrene	80.0	87.8		ug/L		110	60 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*111*		*37 - 150*
2-Fluorobiphenyl	*111*		*46 - 139*
2-Fluorophenol (Surr)	*54*		*16 - 80*
Nitrobenzene-d5 (Surr)	*110*		*51 - 145*
Phenol-d5 (Surr)	*36*		*10 - 56*
Terphenyl-d14 (Surr)	*84*		*13 - 159*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1017771/3-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	82.9		ug/L		104	52 - 129	10	30
1,2,4-Trichlorobenzene			80.0	78.5		ug/L		98	20 - 135	11	30
1,2-Dichlorobenzene			80.0	76.3		ug/L		95	18 - 128	9	30
1,2-Diphenylhydrazine			80.0	85.6		ug/L		107	58 - 130	8	30
1,3-Dichlorobenzene			80.0	75.9		ug/L		95	11 - 130	8	30
1,4-Dichlorobenzene			80.0	75.6		ug/L		95	14 - 129	10	30
2,4,5-Trichlorophenol			80.0	80.8		ug/L		101	63 - 124	11	30
2,4,6-Trichlorophenol			80.0	83.8		ug/L		105	66 - 131	8	30
2,4-Dichlorophenol			80.0	76.9		ug/L		96	60 - 120	7	30
2,4-Dimethylphenol			80.0	86.4		ug/L		108	37 - 120	7	30
2,4-Dinitrophenol			160	155		ug/L		97	50 - 148	6	30
2,4-Dinitrotoluene			80.0	86.8		ug/L		108	71 - 142	11	30
2,6-Dinitrotoluene			80.0	85.7		ug/L		107	71 - 136	9	30
2-Chloronaphthalene			80.0	80.9		ug/L		101	50 - 129	10	30
2-Chlorophenol			80.0	68.2		ug/L		85	49 - 120	4	30
2-Methylnaphthalene			80.0	71.2		ug/L		89	42 - 134	9	30
2-Methylphenol			80.0	62.6		ug/L		78	35 - 120	3	30
2-Nitroaniline			80.0	81.7		ug/L		102	57 - 134	9	30
2-Nitrophenol			80.0	77.4		ug/L		97	62 - 124	10	30
3,3'-Dichlorobenzidine			80.0	63.9		ug/L		80	55 - 145	23	30
3-Nitroaniline			80.0	60.2		ug/L		75	51 - 120	17	30
4,6-Dinitro-2-methylphenol			160	172		ug/L		107	65 - 145	7	30
4-Bromophenyl phenyl ether			80.0	82.9		ug/L		104	59 - 132	9	30
4-Chloro-3-methylphenol			80.0	74.1		ug/L		93	54 - 120	4	30
4-Chloroaniline			80.0	49.4		ug/L		62	43 - 120	29	30
4-Chlorophenyl phenyl ether			80.0	82.5		ug/L		103	65 - 127	10	30
4-Methylphenol			80.0	56.8		ug/L		71	28 - 120	2	30
4-Nitroaniline			80.0	78.0		ug/L		97	57 - 135	13	30
4-Nitrophenol			160	88.2		ug/L		55	10 - 120	14	30
Acenaphthene			80.0	81.5		ug/L		102	62 - 127	11	30
Acenaphthylene			80.0	86.5		ug/L		108	58 - 122	11	30
Acetophenone			80.0	80.0		ug/L		100	65 - 125	8	30
Anthracene			80.0	83.3		ug/L		104	67 - 127	10	30
Atrazine			40.0	50.8	*1	ug/L		127	13 - 150	40	30
Benzaldehyde			40.0	45.5	*1	ug/L		114	10 - 150	35	30
Benzidine			80.0	33.6	*1	ug/L		42	10 - 120	93	30
Benzo[a]anthracene			80.0	81.3		ug/L		102	71 - 131	9	30
Benzo[a]pyrene			80.0	95.0		ug/L		119	75 - 148	12	30
Benzo[b]fluoranthene			80.0	85.1		ug/L		106	70 - 140	10	30
Benzo[g,h,i]perylene			80.0	93.7		ug/L		117	52 - 143	10	30
Benzo[k]fluoranthene			80.0	89.5		ug/L		112	71 - 140	12	30
bis (2-chloroisopropyl) ether			80.0	77.5		ug/L		97	47 - 133	8	30
Bis(2-chloroethoxy)methane			80.0	80.4		ug/L		100	63 - 122	10	30
Bis(2-chloroethyl)ether			80.0	77.3		ug/L		97	61 - 125	10	30
Bis(2-ethylhexyl) phthalate			80.0	85.3		ug/L		107	65 - 144	9	30
Butyl benzyl phthalate			80.0	81.8		ug/L		102	67 - 141	9	30
Caprolactam			40.0	11.0		ug/L		27	10 - 120	23	30
Carbazole			80.0	82.9		ug/L		104	68 - 132	10	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1017771/3-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chrysene			80.0	81.2		ug/L		101	70 - 132	12	30
Dibenz(a,h)anthracene			80.0	90.1		ug/L		113	53 - 150	10	30
Dibenzofuran			80.0	81.0		ug/L		101	64 - 125	11	30
Diethyl phthalate			80.0	78.7		ug/L		98	67 - 131	11	30
Dimethyl phthalate			80.0	82.8		ug/L		103	67 - 129	10	30
Di-n-butyl phthalate			80.0	79.5		ug/L		99	71 - 139	10	30
Di-n-octyl phthalate			80.0	84.3		ug/L		105	51 - 150	10	30
Fluoranthene			80.0	84.9		ug/L		106	69 - 137	9	30
Fluorene			80.0	84.8		ug/L		106	67 - 125	10	30
Hexachlorobenzene			80.0	82.8		ug/L		104	62 - 135	9	30
Hexachlorobutadiene			80.0	80.1		ug/L		100	10 - 147	10	30
Hexachlorocyclopentadiene			80.0	106		ug/L		132	10 - 135	9	30
Hexachloroethane			80.0	80.4		ug/L		101	10 - 138	7	30
Indeno[1,2,3-cd]pyrene			80.0	91.0		ug/L		114	59 - 150	9	30
Isophorone			80.0	82.3		ug/L		103	65 - 128	11	30
Naphthalene			80.0	79.8		ug/L		100	39 - 126	10	30
Nitrobenzene			80.0	80.4		ug/L		101	66 - 127	12	30
N-Nitrosodimethylamine			80.0	41.7		ug/L		52	11 - 120	1	30
N-Nitrosodi-n-propylamine			80.0	80.9		ug/L		101	63 - 133	10	30
N-Nitrosodiphenylamine			80.0	84.4		ug/L		105	66 - 128	7	30
Pentachlorophenol			160	168		ug/L		105	60 - 140	7	30
Phenanthrene			80.0	81.6		ug/L		102	68 - 126	10	30
Phenol			80.0	33.8		ug/L		42	10 - 80	9	30
Pyrene			80.0	80.7		ug/L		101	60 - 137	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*37 - 150*
2-Fluorobiphenyl	*96*		*46 - 139*
2-Fluorophenol (Surr)	*55*		*16 - 80*
Nitrobenzene-d5 (Surr)	*96*		*51 - 145*
Phenol-d5 (Surr)	*38*		*10 - 56*
Terphenyl-d14 (Surr)	*70*		*13 - 159*

Lab Sample ID: 460-319158-S-2-A MSD
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	1.2	U	40.0	46.1		ug/L		115	52 - 129	9	30
1,2,4-Trichlorobenzene	0.64	U	40.0	43.0		ug/L		107	20 - 135	7	30
1,2-Dichlorobenzene	0.50	U	40.0	42.4		ug/L		106	18 - 128	6	30
1,2-Diphenylhydrazine	0.79	U	40.0	46.2		ug/L		116	58 - 130	11	30
1,3-Dichlorobenzene	2.0	U	40.0	41.2		ug/L		103	11 - 130	8	30
1,4-Dichlorobenzene	1.1	U	40.0	41.6		ug/L		104	14 - 129	8	30
2,4,5-Trichlorophenol	0.88	U	40.0	44.5		ug/L		111	63 - 124	10	30
2,4,6-Trichlorophenol	0.86	U	40.0	46.4		ug/L		116	66 - 131	8	30
2,4-Dichlorophenol	1.1	U	40.0	41.6		ug/L		104	60 - 120	9	30
2,4-Dimethylphenol	0.72	J F1	40.0	49.3	F1	ug/L		121	37 - 120	11	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319158-S-2-A MSD
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dinitrophenol	11	U	80.0	80.2		ug/L		100	50 - 148	8	30
2,4-Dinitrotoluene	1.0	U	40.0	49.8		ug/L		125	71 - 142	6	30
2,6-Dinitrotoluene	0.83	U	40.0	47.7		ug/L		119	71 - 136	8	30
2-Chloronaphthalene	1.2	U	40.0	44.9		ug/L		112	50 - 129	9	30
2-Chlorophenol	0.95	U	40.0	37.3		ug/L		93	49 - 120	9	30
2-Methylnaphthalene	2.2	J	40.0	41.9		ug/L		99	42 - 134	7	30
2-Methylphenol	1.0	J	40.0	33.8		ug/L		82	35 - 120	17	30
2-Nitroaniline	1.2	U	40.0	46.2		ug/L		115	57 - 134	5	30
2-Nitrophenol	0.75	U	40.0	43.7		ug/L		109	62 - 124	9	30
3,3'-Dichlorobenzidine	1.4	U	40.0	24.7		ug/L		62	55 - 145	12	30
3-Nitroaniline	1.9	U	40.0	23.3		ug/L		58	51 - 120	14	30
4,6-Dinitro-2-methylphenol	8.6	U	80.0	95.2		ug/L		119	65 - 145	6	30
4-Bromophenyl phenyl ether	0.75	U	40.0	44.4		ug/L		111	59 - 132	10	30
4-Chloro-3-methylphenol	1.3	U	40.0	41.2		ug/L		103	54 - 120	7	30
4-Chloroaniline	1.9	U	40.0	18.9		ug/L		47	43 - 120	4	30
4-Chlorophenyl phenyl ether	1.3	U	40.0	45.3		ug/L		113	65 - 127	8	30
4-Methylphenol	0.83	J	40.0	30.5		ug/L		74	28 - 120	15	30
4-Nitroaniline	1.2	U	40.0	40.8		ug/L		102	57 - 135	9	30
4-Nitrophenol	4.0	U	80.0	41.0		ug/L		51	10 - 120	24	30
Acenaphthene	5.6	J	40.0	50.6		ug/L		112	62 - 127	11	30
Acenaphthylene	0.82	U F1	40.0	47.0		ug/L		117	58 - 122	10	30
Acetophenone	2.3	U	40.0	46.1		ug/L		115	65 - 125	6	30
Anthracene	2.8	J	40.0	48.0		ug/L		113	67 - 127	8	30
Atrazine	1.3	U *1 *+ F1	40.0	66.6	E F1	ug/L		167	13 - 150	0	30
Benzaldehyde	2.1	U *1 *+ F1	40.0	63.4	E F1	ug/L		158	10 - 150	9	30
Benzidine	2.8	U *1	40.0	5.17	J	ug/L		13	10 - 120	26	30
Benzo[a]anthracene	0.59	U	40.0	45.7		ug/L		114	71 - 131	9	30
Benzo[a]pyrene	0.41	U	40.0	52.2		ug/L		130	75 - 148	7	30
Benzo[b]fluoranthene	0.68	U	40.0	48.7		ug/L		122	70 - 140	8	30
Benzo[g,h,i]perylene	0.70	U	40.0	49.5		ug/L		124	52 - 143	10	30
Benzo[k]fluoranthene	0.67	U	40.0	47.3		ug/L		118	71 - 140	8	30
bis (2-chloroisopropyl) ether	0.63	U	40.0	44.4		ug/L		111	47 - 133	7	30
Bis(2-chloroethoxy)methane	0.59	U	40.0	45.4		ug/L		114	63 - 122	7	30
Bis(2-chloroethyl)ether	0.63	U	40.0	44.1		ug/L		110	61 - 125	7	30
Bis(2-ethylhexyl) phthalate	0.80	U	40.0	49.6		ug/L		124	65 - 144	8	30
Butyl benzyl phthalate	0.85	U	40.0	48.1		ug/L		120	67 - 141	10	30
Caprolactam	2.2	U	40.0	13.4		ug/L		34	10 - 120	5	30
Carbazole	7.2	J	40.0	53.5		ug/L		116	68 - 132	10	30
Chrysene	0.91	U	40.0	45.8		ug/L		114	70 - 132	9	30
Dibenz(a,h)anthracene	0.72	U	40.0	46.1		ug/L		115	53 - 150	11	30
Dibenzofuran	5.4	J	40.0	50.3		ug/L		112	64 - 125	9	30
Diethyl phthalate	0.98	U	40.0	44.9		ug/L		112	67 - 131	8	30
Dimethyl phthalate	0.77	U	40.0	46.2		ug/L		115	67 - 129	8	30
Di-n-butyl phthalate	0.84	U	40.0	46.1		ug/L		115	71 - 139	9	30
Di-n-octyl phthalate	4.0	U	40.0	49.1		ug/L		123	51 - 150	11	30
Fluoranthene	4.2	J F1	40.0	53.0		ug/L		122	69 - 137	11	30
Fluorene	8.5	J F1	40.0	55.0		ug/L		116	67 - 125	9	30
Hexachlorobenzene	0.40	U	40.0	44.8		ug/L		112	62 - 135	10	30
Hexachlorobutadiene	0.78	U	40.0	42.9		ug/L		107	10 - 147	9	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319158-S-2-A MSD
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorocyclopentadiene	3.6	U *+ F1	40.0	51.7		ug/L		129	10 - 135	9	30
Hexachloroethane	0.80	U	40.0	43.4		ug/L		108	10 - 138	8	30
Indeno[1,2,3-cd]pyrene	0.94	U	40.0	48.4		ug/L		121	59 - 150	10	30
Isophorone	0.80	U	40.0	47.5		ug/L		119	65 - 128	6	30
Naphthalene	21	F1	40.0	64.8		ug/L		109	39 - 126	16	30
Nitrobenzene	0.57	U	40.0	46.8		ug/L		117	66 - 127	7	30
N-Nitrosodimethylamine	0.45	U	40.0	21.3		ug/L		53	11 - 120	14	30
N-Nitrosodi-n-propylamine	0.43	U	40.0	46.9		ug/L		117	63 - 133	7	30
N-Nitrosodiphenylamine	0.89	U	40.0	46.0		ug/L		115	66 - 128	8	30
Pentachlorophenol	6.6	U	80.0	91.0		ug/L		114	60 - 140	7	30
Phenanthrene	18	F1	40.0	61.4		ug/L		109	68 - 126	14	30
Phenol	0.94	J	40.0	16.7		ug/L		40	10 - 80	19	30
Pyrene	2.8	J	40.0	48.0		ug/L		113	60 - 137	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*37 - 150*
2-Fluorobiphenyl	*99*		*46 - 139*
2-Fluorophenol (Surr)	*53*		*16 - 80*
Nitrobenzene-d5 (Surr)	*103*		*51 - 145*
Phenol-d5 (Surr)	*34*		*10 - 56*
Terphenyl-d14 (Surr)	*41*		*13 - 159*

Lab Sample ID: 460-319158-T-2-A MS
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	1.2	U	40.0	50.6		ug/L		126	52 - 129
1,2,4-Trichlorobenzene	0.64	U	40.0	46.3		ug/L		116	20 - 135
1,2-Dichlorobenzene	0.50	U	40.0	45.2		ug/L		113	18 - 128
1,2-Diphenylhydrazine	0.79	U	40.0	51.4		ug/L		128	58 - 130
1,3-Dichlorobenzene	2.0	U	40.0	44.6		ug/L		111	11 - 130
1,4-Dichlorobenzene	1.1	U	40.0	45.2		ug/L		113	14 - 129
2,4,5-Trichlorophenol	0.88	U	40.0	49.3		ug/L		123	63 - 124
2,4,6-Trichlorophenol	0.86	U	40.0	50.3		ug/L		126	66 - 131
2,4-Dichlorophenol	1.1	U	40.0	45.3		ug/L		113	60 - 120
2,4-Dimethylphenol	0.72	J F1	40.0	55.0	F1	ug/L		136	37 - 120
2,4-Dinitrophenol	11	U	80.0	86.5		ug/L		108	50 - 148
2,4-Dinitrotoluene	1.0	U	40.0	53.0		ug/L		133	71 - 142
2,6-Dinitrotoluene	0.83	U	40.0	51.6		ug/L		129	71 - 136
2-Chloronaphthalene	1.2	U	40.0	49.0		ug/L		123	50 - 129
2-Chlorophenol	0.95	U	40.0	40.7		ug/L		102	49 - 120
2-Methylnaphthalene	2.2	J	40.0	45.0		ug/L		107	42 - 134
2-Methylphenol	1.0	J	40.0	39.9		ug/L		97	35 - 120
2-Nitroaniline	1.2	U	40.0	48.7		ug/L		122	57 - 134
2-Nitrophenol	0.75	U	40.0	47.6		ug/L		119	62 - 124
3,3'-Dichlorobenzidine	1.4	U	40.0	28.0		ug/L		70	55 - 145
3-Nitroaniline	1.9	U	40.0	26.8		ug/L		67	51 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319158-T-2-A MS
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	8.6	U	80.0	101		ug/L		127	65 - 145
4-Bromophenyl phenyl ether	0.75	U	40.0	49.2		ug/L		123	59 - 132
4-Chloro-3-methylphenol	1.3	U	40.0	44.2		ug/L		111	54 - 120
4-Chloroaniline	1.9	U	40.0	19.7		ug/L		49	43 - 120
4-Chlorophenyl phenyl ether	1.3	U	40.0	49.2		ug/L		123	65 - 127
4-Methylphenol	0.83	J	40.0	35.5		ug/L		87	28 - 120
4-Nitroaniline	1.2	U	40.0	44.6		ug/L		111	57 - 135
4-Nitrophenol	4.0	U	80.0	52.1		ug/L		65	10 - 120
Acenaphthene	5.6	J	40.0	56.2		ug/L		126	62 - 127
Acenaphthylene	0.82	U F1	40.0	51.7	F1	ug/L		129	58 - 122
Acetophenone	2.3	U	40.0	49.1		ug/L		123	65 - 125
Anthracene	2.8	J	40.0	52.2		ug/L		124	67 - 127
Atrazine	1.3	U *1 *+ F1	40.0	66.7	E F1	ug/L		167	13 - 150
Benzaldehyde	2.1	U *1 *+ F1	40.0	57.9	E	ug/L		145	10 - 150
Benzidine	2.8	U *1	40.0	6.70	J	ug/L		17	10 - 120
Benzo[a]anthracene	0.59	U	40.0	49.9		ug/L		125	71 - 131
Benzo[a]pyrene	0.41	U	40.0	56.2		ug/L		141	75 - 148
Benzo[b]fluoranthene	0.68	U	40.0	52.9		ug/L		132	70 - 140
Benzo[g,h,i]perylene	0.70	U	40.0	54.8		ug/L		137	52 - 143
Benzo[k]fluoranthene	0.67	U	40.0	51.2		ug/L		128	71 - 140
bis (2-chloroisopropyl) ether	0.63	U	40.0	47.5		ug/L		119	47 - 133
Bis(2-chloroethoxy)methane	0.59	U	40.0	48.7		ug/L		122	63 - 122
Bis(2-chloroethyl)ether	0.63	U	40.0	47.4		ug/L		118	61 - 125
Bis(2-ethylhexyl) phthalate	0.80	U	40.0	53.6		ug/L		134	65 - 144
Butyl benzyl phthalate	0.85	U	40.0	53.0		ug/L		133	67 - 141
Caprolactam	2.2	U	40.0	14.2		ug/L		35	10 - 120
Carbazole	7.2	J	40.0	58.9		ug/L		129	68 - 132
Chrysene	0.91	U	40.0	50.1		ug/L		125	70 - 132
Dibenz(a,h)anthracene	0.72	U	40.0	51.5		ug/L		129	53 - 150
Dibenzofuran	5.4	J	40.0	54.8		ug/L		124	64 - 125
Diethyl phthalate	0.98	U	40.0	48.8		ug/L		122	67 - 131
Dimethyl phthalate	0.77	U	40.0	49.8		ug/L		125	67 - 129
Di-n-butyl phthalate	0.84	U	40.0	50.7		ug/L		127	71 - 139
Di-n-octyl phthalate	4.0	U	40.0	54.6		ug/L		136	51 - 150
Fluoranthene	4.2	J F1	40.0	59.4	F1	ug/L		138	69 - 137
Fluorene	8.5	J F1	40.0	60.3	F1	ug/L		130	67 - 125
Hexachlorobenzene	0.40	U	40.0	49.6		ug/L		124	62 - 135
Hexachlorobutadiene	0.78	U	40.0	47.1		ug/L		118	10 - 147
Hexachlorocyclopentadiene	3.6	U *+ F1	40.0	56.6	F1	ug/L		141	10 - 135
Hexachloroethane	0.80	U	40.0	46.9		ug/L		117	10 - 138
Indeno[1,2,3-cd]pyrene	0.94	U	40.0	53.3		ug/L		133	59 - 150
Isophorone	0.80	U	40.0	50.5		ug/L		126	65 - 128
Naphthalene	21	F1	40.0	75.9	F1	ug/L		137	39 - 126
Nitrobenzene	0.57	U	40.0	50.4		ug/L		126	66 - 127
N-Nitrosodimethylamine	0.45	U	40.0	24.5		ug/L		61	11 - 120
N-Nitrosodi-n-propylamine	0.43	U	40.0	50.1		ug/L		125	63 - 133
N-Nitrosodiphenylamine	0.89	U	40.0	49.9		ug/L		125	66 - 128
Pentachlorophenol	6.6	U	80.0	97.7		ug/L		122	60 - 140
Phenanthrene	18	F1	40.0	70.9	F1	ug/L		133	68 - 126

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319158-T-2-A MS
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	0.94	J	40.0	20.2		ug/L		48	10 - 80
Pyrene	2.8	J	40.0	53.0		ug/L		125	60 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*37 - 150*
2-Fluorobiphenyl	*106*		*46 - 139*
2-Fluorophenol (Surr)	*61*		*16 - 80*
Nitrobenzene-d5 (Surr)	*106*		*51 - 145*
Phenol-d5 (Surr)	*41*		*10 - 56*
Terphenyl-d14 (Surr)	*51*		*13 - 159*

Lab Sample ID: MB 460-1023975/1-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1023975/1-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.010	U	0.33	0.010	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Phenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		03/04/25 08:39	03/04/25 14:49	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*03/04/25 08:39*	*03/04/25 14:49*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*24 - 137*	*03/04/25 08:39*	*03/04/25 14:49*	*1*
2-Fluorobiphenyl	*86*		*38 - 128*	*03/04/25 08:39*	*03/04/25 14:49*	*1*
2-Fluorophenol (Surr)	*98*		*31 - 133*	*03/04/25 08:39*	*03/04/25 14:49*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1023975/1-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023975

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*92*		*31 - 120*	*03/04/25 08:39*	*03/04/25 14:49*	*1*
Phenol-d5 (Surr)	*79*		*35 - 132*	*03/04/25 08:39*	*03/04/25 14:49*	*1*
Terphenyl-d14 (Surr)	*86*		*44 - 147*	*03/04/25 08:39*	*03/04/25 14:49*	*1*

Lab Sample ID: LCS 460-1023975/2-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.38		mg/Kg		101	64 - 120
1,2,4-Trichlorobenzene	3.33	3.31		mg/Kg		99	63 - 120
1,2-Dichlorobenzene	3.33	3.31		mg/Kg		99	64 - 120
1,2-Diphenylhydrazine	3.33	3.33		mg/Kg		100	55 - 125
1,3-Dichlorobenzene	3.33	3.08		mg/Kg		92	62 - 120
1,4-Dichlorobenzene	3.33	3.25		mg/Kg		98	60 - 120
2,4,5-Trichlorophenol	3.33	3.50		mg/Kg		105	64 - 120
2,4,6-Trichlorophenol	3.33	3.61		mg/Kg		108	65 - 120
2,4-Dichlorophenol	3.33	3.23		mg/Kg		97	66 - 120
2,4-Dimethylphenol	3.33	3.94		mg/Kg		118	46 - 120
2,4-Dinitrophenol	6.67	6.73		mg/Kg		101	41 - 129
2,4-Dinitrotoluene	3.33	3.47		mg/Kg		104	65 - 124
2,6-Dinitrotoluene	3.33	3.44		mg/Kg		103	67 - 121
2-Chloronaphthalene	3.33	3.30		mg/Kg		99	64 - 120
2-Chlorophenol	3.33	3.34		mg/Kg		100	63 - 120
2-Methylnaphthalene	3.33	2.89		mg/Kg		87	64 - 120
2-Methylphenol	3.33	3.50		mg/Kg		105	63 - 120
2-Nitroaniline	3.33	3.19		mg/Kg		96	48 - 120
2-Nitrophenol	3.33	3.27		mg/Kg		98	64 - 120
3,3'-Dichlorobenzidine	3.33	2.04		mg/Kg		61	10 - 120
3-Nitroaniline	3.33	2.34		mg/Kg		70	18 - 122
4,6-Dinitro-2-methylphenol	6.67	7.63		mg/Kg		114	58 - 136
4-Bromophenyl phenyl ether	3.33	3.51		mg/Kg		105	60 - 120
4-Chloro-3-methylphenol	3.33	3.32		mg/Kg		100	66 - 120
4-Chloroaniline	3.33	2.21		mg/Kg		66	10 - 120
4-Chlorophenyl phenyl ether	3.33	3.32		mg/Kg		100	62 - 120
4-Methylphenol	3.33	3.26		mg/Kg		98	61 - 120
4-Nitroaniline	3.33	3.35		mg/Kg		101	51 - 120
4-Nitrophenol	6.67	5.97		mg/Kg		89	42 - 132
Acenaphthene	3.33	3.32		mg/Kg		99	65 - 120
Acenaphthylene	3.33	3.53		mg/Kg		106	64 - 120
Acetophenone	3.33	3.19		mg/Kg		96	61 - 120
Anthracene	3.33	3.48		mg/Kg		104	67 - 120
Atrazine	1.33	1.72		mg/Kg		129	32 - 150
Benzaldehyde	1.33	1.58		mg/Kg		119	28 - 150
Benzidine	3.33	3.85		mg/Kg		116	10 - 120
Benzo[a]anthracene	3.33	3.38		mg/Kg		101	66 - 120
Benzo[a]pyrene	3.33	3.86		mg/Kg		116	73 - 123
Benzo[b]fluoranthene	3.33	3.59		mg/Kg		108	70 - 125

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1023975/2-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	3.33	3.93		mg/Kg		118	66 - 120
Benzo[k]fluoranthene	3.33	3.55		mg/Kg		107	67 - 122
bis (2-chloroisopropyl) ether	3.33	3.12		mg/Kg		94	46 - 126
Bis(2-chloroethoxy)methane	3.33	3.22		mg/Kg		97	62 - 120
Bis(2-chloroethyl)ether	3.33	3.20		mg/Kg		96	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.41		mg/Kg		102	64 - 125
Butyl benzyl phthalate	3.33	3.34		mg/Kg		100	62 - 127
Caprolactam	1.33	1.51		mg/Kg		113	36 - 150
Carbazole	3.33	3.45		mg/Kg		104	64 - 120
Chrysene	3.33	3.33		mg/Kg		100	67 - 120
Dibenz(a,h)anthracene	3.33	3.71		mg/Kg		111	66 - 128
Dibenzofuran	3.33	3.24		mg/Kg		97	61 - 120
Diethyl phthalate	3.33	3.38		mg/Kg		101	63 - 120
Dimethyl phthalate	3.33	3.35		mg/Kg		101	65 - 120
Di-n-butyl phthalate	3.33	3.27		mg/Kg		98	66 - 120
Di-n-octyl phthalate	3.33	3.31		mg/Kg		99	61 - 123
Fluoranthene	3.33	3.44		mg/Kg		103	61 - 120
Fluorene	3.33	3.37		mg/Kg		101	64 - 120
Hexachlorobenzene	3.33	3.61		mg/Kg		108	66 - 120
Hexachlorobutadiene	3.33	3.37		mg/Kg		101	62 - 120
Hexachlorocyclopentadiene	3.33	5.27	*+	mg/Kg		158	13 - 120
Hexachloroethane	3.33	3.39		mg/Kg		102	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.64		mg/Kg		109	71 - 137
Isophorone	3.33	3.28		mg/Kg		98	61 - 120
Naphthalene	3.33	3.28		mg/Kg		98	63 - 120
Nitrobenzene	3.33	3.14		mg/Kg		94	63 - 120
N-Nitrosodimethylamine	3.33	3.18		mg/Kg		95	57 - 120
N-Nitrosodi-n-propylamine	3.33	3.30		mg/Kg		99	56 - 120
N-Nitrosodiphenylamine	3.33	3.41		mg/Kg		102	63 - 120
Pentachlorophenol	6.67	7.30		mg/Kg		109	61 - 126
Phenanthrene	3.33	3.36		mg/Kg		101	66 - 120
Phenol	3.33	3.16		mg/Kg		95	63 - 120
Pyrene	3.33	3.40		mg/Kg		102	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*24 - 137*
2-Fluorobiphenyl	*95*		*38 - 128*
2-Fluorophenol (Surr)	*99*		*31 - 133*
Nitrobenzene-d5 (Surr)	*95*		*31 - 120*
Phenol-d5 (Surr)	*95*		*35 - 132*
Terphenyl-d14 (Surr)	*98*		*44 - 147*

Lab Sample ID: LCSD 460-1023975/3-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	3.33	3.37		mg/Kg		101	64 - 120	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1023975/3-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023975

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			3.33	3.34		mg/Kg		100	63 - 120	1	30
1,2-Dichlorobenzene			3.33	3.28		mg/Kg		98	64 - 120	1	30
1,2-Diphenylhydrazine			3.33	3.33		mg/Kg		100	55 - 125	0	30
1,3-Dichlorobenzene			3.33	3.21		mg/Kg		96	62 - 120	4	30
1,4-Dichlorobenzene			3.33	3.23		mg/Kg		97	60 - 120	1	30
2,4,5-Trichlorophenol			3.33	3.54		mg/Kg		106	64 - 120	1	30
2,4,6-Trichlorophenol			3.33	3.46		mg/Kg		104	65 - 120	4	30
2,4-Dichlorophenol			3.33	3.28		mg/Kg		98	66 - 120	1	30
2,4-Dimethylphenol			3.33	3.85		mg/Kg		115	46 - 120	2	30
2,4-Dinitrophenol			6.67	6.88		mg/Kg		103	41 - 129	2	30
2,4-Dinitrotoluene			3.33	3.50		mg/Kg		105	65 - 124	1	30
2,6-Dinitrotoluene			3.33	3.42		mg/Kg		103	67 - 121	0	30
2-Chloronaphthalene			3.33	3.31		mg/Kg		99	64 - 120	0	30
2-Chlorophenol			3.33	3.34		mg/Kg		100	63 - 120	0	30
2-Methylnaphthalene			3.33	2.92		mg/Kg		88	64 - 120	1	30
2-Methylphenol			3.33	3.55		mg/Kg		107	63 - 120	2	30
2-Nitroaniline			3.33	3.21		mg/Kg		96	48 - 120	1	30
2-Nitrophenol			3.33	3.36		mg/Kg		101	64 - 120	3	30
3,3'-Dichlorobenzidine			3.33	1.85		mg/Kg		56	10 - 120	10	30
3-Nitroaniline			3.33	2.20		mg/Kg		66	18 - 122	6	30
4,6-Dinitro-2-methylphenol			6.67	7.80		mg/Kg		117	58 - 136	2	30
4-Bromophenyl phenyl ether			3.33	3.56		mg/Kg		107	60 - 120	1	30
4-Chloro-3-methylphenol			3.33	3.42		mg/Kg		103	66 - 120	3	30
4-Chloroaniline			3.33	1.90		mg/Kg		57	10 - 120	15	30
4-Chlorophenyl phenyl ether			3.33	3.38		mg/Kg		101	62 - 120	2	30
4-Methylphenol			3.33	3.33		mg/Kg		100	61 - 120	2	30
4-Nitroaniline			3.33	3.30		mg/Kg		99	51 - 120	1	30
4-Nitrophenol			6.67	5.88		mg/Kg		88	42 - 132	1	30
Acenaphthene			3.33	3.34		mg/Kg		100	65 - 120	1	30
Acenaphthylene			3.33	3.52		mg/Kg		106	64 - 120	0	30
Acetophenone			3.33	3.22		mg/Kg		97	61 - 120	1	30
Anthracene			3.33	3.48		mg/Kg		104	67 - 120	0	30
Atrazine			1.33	2.07	*+	mg/Kg		155	32 - 150	19	30
Benzaldehyde			1.33	1.75		mg/Kg		131	28 - 150	10	30
Benzidine			3.33	3.61		mg/Kg		108	10 - 120	7	30
Benzo[a]anthracene			3.33	3.37		mg/Kg		101	66 - 120	0	30
Benzo[a]pyrene			3.33	3.67		mg/Kg		110	73 - 123	5	30
Benzo[b]fluoranthene			3.33	3.35		mg/Kg		101	70 - 125	7	30
Benzo[g,h,i]perylene			3.33	3.90		mg/Kg		117	66 - 120	1	30
Benzo[k]fluoranthene			3.33	3.66		mg/Kg		110	67 - 122	3	30
bis (2-chloroisopropyl) ether			3.33	3.13		mg/Kg		94	46 - 126	0	30
Bis(2-chloroethoxy)methane			3.33	3.24		mg/Kg		97	62 - 120	0	30
Bis(2-chloroethyl)ether			3.33	3.15		mg/Kg		95	60 - 120	2	30
Bis(2-ethylhexyl) phthalate			3.33	3.42		mg/Kg		102	64 - 125	0	30
Butyl benzyl phthalate			3.33	3.32		mg/Kg		99	62 - 127	1	30
Caprolactam			1.33	1.82		mg/Kg		136	36 - 150	19	30
Carbazole			3.33	3.56		mg/Kg		107	64 - 120	3	30
Chrysene			3.33	3.32		mg/Kg		100	67 - 120	0	30
Dibenz(a,h)anthracene			3.33	3.70		mg/Kg		111	66 - 128	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1023975/3-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023975

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran			3.33	3.28		mg/Kg		98	61 - 120	1	30
Diethyl phthalate			3.33	3.38		mg/Kg		101	63 - 120	0	30
Dimethyl phthalate			3.33	3.40		mg/Kg		102	65 - 120	1	30
Di-n-butyl phthalate			3.33	3.30		mg/Kg		99	66 - 120	1	30
Di-n-octyl phthalate			3.33	3.28		mg/Kg		98	61 - 123	1	30
Fluoranthene			3.33	3.52		mg/Kg		106	61 - 120	2	30
Fluorene			3.33	3.37		mg/Kg		101	64 - 120	0	30
Hexachlorobenzene			3.33	3.64		mg/Kg		109	66 - 120	1	30
Hexachlorobutadiene			3.33	3.43		mg/Kg		103	62 - 120	2	30
Hexachlorocyclopentadiene			3.33	5.31	*+	mg/Kg		159	13 - 120	1	30
Hexachloroethane			3.33	3.41		mg/Kg		102	61 - 120	1	30
Indeno[1,2,3-cd]pyrene			3.33	3.67		mg/Kg		110	71 - 137	1	30
Isophorone			3.33	3.30		mg/Kg		99	61 - 120	1	30
Naphthalene			3.33	3.33		mg/Kg		100	63 - 120	1	30
Nitrobenzene			3.33	3.17		mg/Kg		95	63 - 120	1	30
N-Nitrosodimethylamine			3.33	3.10		mg/Kg		93	57 - 120	2	30
N-Nitrosodi-n-propylamine			3.33	3.26		mg/Kg		98	56 - 120	1	30
N-Nitrosodiphenylamine			3.33	3.46		mg/Kg		104	63 - 120	2	30
Pentachlorophenol			6.67	7.38		mg/Kg		111	61 - 126	1	30
Phenanthrene			3.33	3.41		mg/Kg		102	66 - 120	1	30
Phenol			3.33	3.15		mg/Kg		95	63 - 120	0	30
Pyrene			3.33	3.44		mg/Kg		103	61 - 121	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*24 - 137*
2-Fluorobiphenyl	*93*		*38 - 128*
2-Fluorophenol (Surr)	*102*		*31 - 133*
Nitrobenzene-d5 (Surr)	*92*		*31 - 120*
Phenol-d5 (Surr)	*93*		*35 - 132*
Terphenyl-d14 (Surr)	*97*		*44 - 147*

Lab Sample ID: 460-319165-C-15-D MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.012	U	3.40	2.92		mg/Kg	☼	86	64 - 120
1,2,4-Trichlorobenzene	0.0087	U	3.40	2.91		mg/Kg	☼	86	63 - 120
1,2-Dichlorobenzene	0.0057	U	3.40	2.73		mg/Kg	☼	80	64 - 120
1,2-Diphenylhydrazine	0.013	U	3.40	2.86		mg/Kg	☼	84	55 - 125
1,3-Dichlorobenzene	0.010	U	3.40	2.74		mg/Kg	☼	81	62 - 120
1,4-Dichlorobenzene	0.013	U	3.40	2.67		mg/Kg	☼	79	60 - 120
2,4,5-Trichlorophenol	0.034	U	3.40	2.74		mg/Kg	☼	80	64 - 120
2,4,6-Trichlorophenol	0.043	U	3.40	3.23		mg/Kg	☼	95	65 - 120
2,4-Dichlorophenol	0.022	U	3.40	3.08		mg/Kg	☼	90	66 - 120
2,4-Dimethylphenol	0.040	U	3.40	3.46		mg/Kg	☼	102	46 - 120
2,4-Dinitrophenol	0.17	U	6.80	5.31		mg/Kg	☼	78	41 - 129
2,4-Dinitrotoluene	0.036	U	3.40	3.00		mg/Kg	☼	88	65 - 124

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319165-C-15-D MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	0.024	U	3.40	3.00		mg/Kg	☼	88	67 - 121
2-Chloronaphthalene	0.016	U	3.40	2.88		mg/Kg	☼	85	64 - 120
2-Chlorophenol	0.012	U	3.40	2.79		mg/Kg	☼	82	63 - 120
2-Methylnaphthalene	0.0094	U	3.40	2.55		mg/Kg	☼	75	64 - 120
2-Methylphenol	0.013	U	3.40	3.00		mg/Kg	☼	88	63 - 120
2-Nitroaniline	0.026	U	3.40	2.71		mg/Kg	☼	80	48 - 120
2-Nitrophenol	0.034	U	3.40	2.83		mg/Kg	☼	83	64 - 120
3,3'-Dichlorobenzidine	0.051	U F1 F2	3.40	0.297	F1	mg/Kg	☼	9	10 - 120
3-Nitroaniline	0.080	U	3.40	1.41		mg/Kg	☼	41	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U	6.80	5.90		mg/Kg	☼	87	58 - 136
4-Bromophenyl phenyl ether	0.013	U	3.40	3.05		mg/Kg	☼	90	60 - 120
4-Chloro-3-methylphenol	0.019	U	3.40	2.91		mg/Kg	☼	85	66 - 120
4-Chloroaniline	0.060	U	3.40	0.428		mg/Kg	☼	13	10 - 120
4-Chlorophenyl phenyl ether	0.012	U	3.40	2.94		mg/Kg	☼	86	62 - 120
4-Methylphenol	0.021	U	3.40	2.81		mg/Kg	☼	83	61 - 120
4-Nitroaniline	0.039	U	3.40	2.25		mg/Kg	☼	66	51 - 120
4-Nitrophenol	0.055	U	6.80	5.09		mg/Kg	☼	75	42 - 132
Acenaphthene	0.0096	U	3.40	2.90		mg/Kg	☼	85	65 - 120
Acenaphthylene	0.0096	U	3.40	3.03		mg/Kg	☼	89	64 - 120
Acetophenone	0.017	U	3.40	2.77		mg/Kg	☼	82	61 - 120
Anthracene	0.010	U	3.40	2.96		mg/Kg	☼	87	67 - 120
Atrazine	0.020	U *+	1.36	1.50		mg/Kg	☼	110	32 - 150
Benzaldehyde	0.056	U	1.36	1.27		mg/Kg	☼	94	28 - 150
Benzidine	0.071	U F1	3.40	0.071	U F1	mg/Kg	☼	0	10 - 120
Benzo[a]anthracene	0.025	U	3.40	2.93		mg/Kg	☼	86	66 - 120
Benzo[a]pyrene	0.0090	U	3.40	3.28		mg/Kg	☼	97	73 - 123
Benzo[b]fluoranthene	0.0087	U	3.40	2.99		mg/Kg	☼	88	70 - 125
Benzo[g,h,i]perylene	0.0099	U	3.40	3.55		mg/Kg	☼	104	66 - 120
Benzo[k]fluoranthene	0.0066	U	3.40	3.24		mg/Kg	☼	95	67 - 122
bis (2-chloroisopropyl) ether	0.020	U	3.40	2.57		mg/Kg	☼	75	46 - 126
Bis(2-chloroethoxy)methane	0.026	U	3.40	2.86		mg/Kg	☼	84	62 - 120
Bis(2-chloroethyl)ether	0.012	U	3.40	2.70		mg/Kg	☼	79	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U	3.40	3.05		mg/Kg	☼	90	64 - 125
Butyl benzyl phthalate	0.016	U	3.40	2.94		mg/Kg	☼	86	62 - 127
Caprolactam	0.052	U	1.36	1.44		mg/Kg	☼	106	36 - 150
Carbazole	0.013	U	3.40	2.96		mg/Kg	☼	87	64 - 120
Chrysene	0.014	U	3.40	2.90		mg/Kg	☼	85	67 - 120
Dibenz(a,h)anthracene	0.015	U	3.40	3.32		mg/Kg	☼	98	66 - 128
Dibenzofuran	0.011	U	3.40	2.93		mg/Kg	☼	86	61 - 120
Diethyl phthalate	0.011	U	3.40	2.97		mg/Kg	☼	87	63 - 120
Dimethyl phthalate	0.076	U	3.40	2.98		mg/Kg	☼	87	65 - 120
Di-n-butyl phthalate	0.013	U	3.40	2.91		mg/Kg	☼	85	66 - 120
Di-n-octyl phthalate	0.018	U	3.40	2.97		mg/Kg	☼	87	61 - 123
Fluoranthene	0.012	U	3.40	2.97		mg/Kg	☼	87	61 - 120
Fluorene	0.0098	U	3.40	2.91		mg/Kg	☼	85	64 - 120
Hexachlorobenzene	0.016	U	3.40	3.10		mg/Kg	☼	91	66 - 120
Hexachlorobutadiene	0.0072	U	3.40	2.93		mg/Kg	☼	86	62 - 120
Hexachlorocyclopentadiene	0.030	U *+	3.40	2.88		mg/Kg	☼	85	13 - 120
Hexachloroethane	0.012	U	3.40	2.70		mg/Kg	☼	79	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319165-C-15-D MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	0.013	U	3.40	3.30		mg/Kg	☼	97	71 - 137
Isophorone	0.097	U	3.40	2.88		mg/Kg	☼	85	61 - 120
Naphthalene	0.0058	U	3.40	2.84		mg/Kg	☼	83	63 - 120
Nitrobenzene	0.019	U	3.40	2.64		mg/Kg	☼	78	63 - 120
N-Nitrosodimethylamine	0.031	U	3.40	2.73		mg/Kg	☼	80	57 - 120
N-Nitrosodi-n-propylamine	0.024	U	3.40	2.80		mg/Kg	☼	82	56 - 120
N-Nitrosodiphenylamine	0.028	U	3.40	2.94		mg/Kg	☼	86	63 - 120
Pentachlorophenol	0.069	U	6.80	6.61		mg/Kg	☼	97	61 - 126
Phenanthrene	0.014	U	3.40	2.97		mg/Kg	☼	87	66 - 120
Phenol	0.012	U	3.40	2.80		mg/Kg	☼	82	63 - 120
Pyrene	0.011	J	3.40	3.03		mg/Kg	☼	89	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*24 - 137*
2-Fluorobiphenyl	*80*		*38 - 128*
2-Fluorophenol (Surr)	*75*		*31 - 133*
Nitrobenzene-d5 (Surr)	*81*		*31 - 120*
Phenol-d5 (Surr)	*73*		*35 - 132*
Terphenyl-d14 (Surr)	*84*		*44 - 147*

Lab Sample ID: 460-319165-C-15-E MSD
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U	3.40	2.83		mg/Kg	☼	83	64 - 120	3	30
1,2,4-Trichlorobenzene	0.0087	U	3.40	2.82		mg/Kg	☼	83	63 - 120	3	30
1,2-Dichlorobenzene	0.0057	U	3.40	2.55		mg/Kg	☼	75	64 - 120	7	30
1,2-Diphenylhydrazine	0.013	U	3.40	2.78		mg/Kg	☼	82	55 - 125	3	30
1,3-Dichlorobenzene	0.010	U	3.40	2.54		mg/Kg	☼	75	62 - 120	8	30
1,4-Dichlorobenzene	0.013	U	3.40	2.51		mg/Kg	☼	74	60 - 120	6	30
2,4,5-Trichlorophenol	0.034	U	3.40	2.83		mg/Kg	☼	83	64 - 120	3	30
2,4,6-Trichlorophenol	0.043	U	3.40	3.13		mg/Kg	☼	92	65 - 120	3	30
2,4-Dichlorophenol	0.022	U	3.40	2.93		mg/Kg	☼	86	66 - 120	5	30
2,4-Dimethylphenol	0.040	U	3.40	3.25		mg/Kg	☼	96	46 - 120	6	30
2,4-Dinitrophenol	0.17	U	6.81	4.90		mg/Kg	☼	72	41 - 129	8	30
2,4-Dinitrotoluene	0.036	U	3.40	2.86		mg/Kg	☼	84	65 - 124	5	30
2,6-Dinitrotoluene	0.024	U	3.40	2.93		mg/Kg	☼	86	67 - 121	2	30
2-Chloronaphthalene	0.016	U	3.40	2.84		mg/Kg	☼	83	64 - 120	1	30
2-Chlorophenol	0.012	U	3.40	2.70		mg/Kg	☼	79	63 - 120	3	30
2-Methylnaphthalene	0.0094	U	3.40	2.49		mg/Kg	☼	73	64 - 120	3	30
2-Methylphenol	0.013	U	3.40	2.90		mg/Kg	☼	85	63 - 120	3	30
2-Nitroaniline	0.026	U	3.40	2.69		mg/Kg	☼	79	48 - 120	1	30
2-Nitrophenol	0.034	U	3.40	2.79		mg/Kg	☼	82	64 - 120	1	30
3,3'-Dichlorobenzidine	0.051	U F1 F2	3.40	0.0516	J F1 F2	mg/Kg	☼	2	10 - 120	141	30
3-Nitroaniline	0.080	U	3.40	1.48		mg/Kg	☼	44	18 - 122	5	30
4,6-Dinitro-2-methylphenol	0.14	U	6.81	5.55		mg/Kg	☼	82	58 - 136	6	30
4-Bromophenyl phenyl ether	0.013	U	3.40	2.97		mg/Kg	☼	87	60 - 120	3	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319165-C-15-E MSD
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Chloro-3-methylphenol	0.019	U	3.40	2.91		mg/Kg	☼	85	66 - 120	0	30
4-Chloroaniline	0.060	U	3.40	0.535		mg/Kg	☼	16	10 - 120	22	30
4-Chlorophenyl phenyl ether	0.012	U	3.40	2.84		mg/Kg	☼	83	62 - 120	3	30
4-Methylphenol	0.021	U	3.40	2.72		mg/Kg	☼	80	61 - 120	3	30
4-Nitroaniline	0.039	U	3.40	1.79		mg/Kg	☼	53	51 - 120	23	30
4-Nitrophenol	0.055	U	6.81	5.31		mg/Kg	☼	78	42 - 132	4	30
Acenaphthene	0.0096	U	3.40	2.84		mg/Kg	☼	83	65 - 120	2	30
Acenaphthylene	0.0096	U	3.40	2.94		mg/Kg	☼	87	64 - 120	3	30
Acetophenone	0.017	U	3.40	2.62		mg/Kg	☼	77	61 - 120	6	30
Anthracene	0.010	U	3.40	2.85		mg/Kg	☼	84	67 - 120	4	30
Atrazine	0.020	U *+	1.36	1.51		mg/Kg	☼	111	32 - 150	1	30
Benzaldehyde	0.056	U	1.36	1.28		mg/Kg	☼	94	28 - 150	1	30
Benzidine	0.071	U F1	3.40	0.0755	J F1	mg/Kg	☼	2	10 - 120	NC	30
Benzo[a]anthracene	0.025	U	3.40	2.84		mg/Kg	☼	83	66 - 120	3	30
Benzo[a]pyrene	0.0090	U	3.40	3.14		mg/Kg	☼	92	73 - 123	5	30
Benzo[b]fluoranthene	0.0087	U	3.40	2.95		mg/Kg	☼	87	70 - 125	1	30
Benzo[g,h,i]perylene	0.0099	U	3.40	3.34		mg/Kg	☼	98	66 - 120	6	30
Benzo[k]fluoranthene	0.0066	U	3.40	2.99		mg/Kg	☼	88	67 - 122	8	30
bis (2-chloroisopropyl) ether	0.020	U	3.40	2.45		mg/Kg	☼	72	46 - 126	5	30
Bis(2-chloroethoxy)methane	0.026	U	3.40	2.82		mg/Kg	☼	83	62 - 120	1	30
Bis(2-chloroethyl)ether	0.012	U	3.40	2.56		mg/Kg	☼	75	60 - 120	5	30
Bis(2-ethylhexyl) phthalate	0.018	U	3.40	2.97		mg/Kg	☼	87	64 - 125	3	30
Butyl benzyl phthalate	0.016	U	3.40	2.88		mg/Kg	☼	85	62 - 127	2	30
Caprolactam	0.052	U	1.36	1.46		mg/Kg	☼	107	36 - 150	1	30
Carbazole	0.013	U	3.40	2.85		mg/Kg	☼	84	64 - 120	4	30
Chrysene	0.014	U	3.40	2.84		mg/Kg	☼	83	67 - 120	2	30
Dibenz(a,h)anthracene	0.015	U	3.40	3.18		mg/Kg	☼	93	66 - 128	4	30
Dibenzofuran	0.011	U	3.40	2.89		mg/Kg	☼	85	61 - 120	1	30
Diethyl phthalate	0.011	U	3.40	2.89		mg/Kg	☼	85	63 - 120	3	30
Dimethyl phthalate	0.076	U	3.40	2.88		mg/Kg	☼	85	65 - 120	3	30
Di-n-butyl phthalate	0.013	U	3.40	2.77		mg/Kg	☼	82	66 - 120	5	30
Di-n-octyl phthalate	0.018	U	3.40	2.79		mg/Kg	☼	82	61 - 123	6	30
Fluoranthene	0.012	U	3.40	2.85		mg/Kg	☼	84	61 - 120	4	30
Fluorene	0.0098	U	3.40	2.89		mg/Kg	☼	85	64 - 120	1	30
Hexachlorobenzene	0.016	U	3.40	3.08		mg/Kg	☼	90	66 - 120	1	30
Hexachlorobutadiene	0.0072	U	3.40	2.87		mg/Kg	☼	84	62 - 120	2	30
Hexachlorocyclopentadiene	0.030	U *+	3.40	2.89		mg/Kg	☼	85	13 - 120	0	30
Hexachloroethane	0.012	U	3.40	2.55		mg/Kg	☼	75	61 - 120	6	30
Indeno[1,2,3-cd]pyrene	0.013	U	3.40	3.14		mg/Kg	☼	92	71 - 137	5	30
Isophorone	0.097	U	3.40	2.78		mg/Kg	☼	82	61 - 120	3	30
Naphthalene	0.0058	U	3.40	2.77		mg/Kg	☼	81	63 - 120	2	30
Nitrobenzene	0.019	U	3.40	2.57		mg/Kg	☼	76	63 - 120	3	30
N-Nitrosodimethylamine	0.031	U	3.40	2.01		mg/Kg	☼	59	57 - 120	30	30
N-Nitrosodi-n-propylamine	0.024	U	3.40	2.69		mg/Kg	☼	79	56 - 120	4	30
N-Nitrosodiphenylamine	0.028	U	3.40	2.83		mg/Kg	☼	83	63 - 120	4	30
Pentachlorophenol	0.069	U	6.81	6.41		mg/Kg	☼	94	61 - 126	3	30
Phenanthrene	0.014	U	3.40	2.86		mg/Kg	☼	84	66 - 120	4	30
Phenol	0.012	U	3.40	2.68		mg/Kg	☼	79	63 - 120	4	30
Pyrene	0.011	J	3.40	2.91		mg/Kg	☼	85	61 - 121	4	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*87*		*24 - 137*
2-Fluorobiphenyl	*79*		*38 - 128*
2-Fluorophenol (Surr)	*75*		*31 - 133*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*
Phenol-d5 (Surr)	*71*		*35 - 132*
Terphenyl-d14 (Surr)	*81*		*44 - 147*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-1017868/1-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 06:12	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 06:12	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 06:12	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 06:12	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 06:12	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 06:12	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1017868/1-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 06:12	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 06:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*34 - 120*	*01/23/25 20:22*	*01/24/25 06:12*	*1*
Tetrachloro-m-xylene	*75*		*34 - 120*	*01/23/25 20:22*	*01/24/25 06:12*	*1*
DCB Decachlorobiphenyl	*58*		*30 - 131*	*01/23/25 20:22*	*01/24/25 06:12*	*1*
DCB Decachlorobiphenyl	*55*		*30 - 131*	*01/23/25 20:22*	*01/24/25 06:12*	*1*

Lab Sample ID: LCS 460-1017868/2-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.800	0.688		ug/L		86	67 - 129
Aldrin	0.800	0.645		ug/L		81	67 - 129
alpha-BHC	0.800	0.643		ug/L		80	70 - 125
alpha-BHC	0.800	0.632		ug/L		79	70 - 125
beta-BHC	0.800	0.648		ug/L		81	70 - 129
beta-BHC	0.800	0.617		ug/L		77	70 - 129
4,4'-DDD	0.800	0.635		ug/L		79	69 - 138
4,4'-DDD	0.800	0.649		ug/L		81	69 - 138
4,4'-DDE	0.800	0.705		ug/L		88	68 - 130
4,4'-DDE	0.800	0.667		ug/L		83	68 - 130
4,4'-DDT	0.800	0.785		ug/L		98	57 - 1505
4,4'-DDT	0.800	0.676		ug/L		85	57 - 1505
delta-BHC	0.800	0.451		ug/L		56	44 - 120
delta-BHC	0.800	0.448		ug/L		56	44 - 120
Dieldrin	0.800	0.708		ug/L		88	72 - 128
Dieldrin	0.800	0.657		ug/L		82	72 - 128
Endosulfan I	0.800	0.701		ug/L		88	73 - 127
Endosulfan I	0.800	0.663		ug/L		83	73 - 127
Endosulfan II	0.800	0.686		ug/L		86	73 - 134
Endosulfan II	0.800	0.686		ug/L		86	73 - 134
Endosulfan sulfate	0.800	0.603		ug/L		75	61 - 128
Endosulfan sulfate	0.800	0.558		ug/L		70	61 - 128
Endrin	0.800	0.719		ug/L		90	64 - 138
Endrin	0.800	0.654		ug/L		82	64 - 138
Endrin aldehyde	0.800	0.658		ug/L		82	74 - 133
Endrin aldehyde	0.800	0.634		ug/L		79	74 - 133
Endrin ketone	0.800	0.677		ug/L		85	56 - 150
Endrin ketone	0.800	0.636		ug/L		79	56 - 150
gamma-BHC (Lindane)	0.800	0.676		ug/L		85	73 - 132
gamma-BHC (Lindane)	0.800	0.649		ug/L		81	73 - 132
Heptachlor	0.800	0.702		ug/L		88	70 - 134
Heptachlor	0.800	0.660		ug/L		82	70 - 134
Heptachlor epoxide	0.800	0.696		ug/L		87	75 - 126
Heptachlor epoxide	0.800	0.641		ug/L		80	75 - 126

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1017868/2-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methoxychlor			0.800	0.870		ug/L		109	49 - 150		
Methoxychlor			0.800	0.697		ug/L		87	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*34 - 120*
Tetrachloro-m-xylene	*82*		*34 - 120*
DCB Decachlorobiphenyl	*53*		*30 - 131*
DCB Decachlorobiphenyl	*55*		*30 - 131*

Lab Sample ID: LCSD 460-1017868/3-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.800	0.692		ug/L		86	67 - 129	1	30
Aldrin			0.800	0.664		ug/L		83	67 - 129	3	30
alpha-BHC			0.800	0.670		ug/L		84	70 - 125	4	30
alpha-BHC			0.800	0.644		ug/L		80	70 - 125	2	30
beta-BHC			0.800	0.672		ug/L		84	70 - 129	4	30
beta-BHC			0.800	0.635		ug/L		79	70 - 129	3	30
4,4'-DDD			0.800	0.616		ug/L		77	69 - 138	3	30
4,4'-DDD			0.800	0.668		ug/L		83	69 - 138	3	30
4,4'-DDE			0.800	0.708		ug/L		89	68 - 130	0	30
4,4'-DDE			0.800	0.695		ug/L		87	68 - 130	4	30
4,4'-DDT			0.800	0.684		ug/L		86	57 - 1505	14	30
4,4'-DDT			0.800	0.664		ug/L		83	57 - 1505	2	30
delta-BHC			0.800	0.458		ug/L		57	44 - 120	2	30
delta-BHC			0.800	0.461		ug/L		58	44 - 120	3	30
Dieldrin			0.800	0.707		ug/L		88	72 - 128	0	30
Dieldrin			0.800	0.681		ug/L		85	72 - 128	4	30
Endosulfan I			0.800	0.704		ug/L		88	73 - 127	0	30
Endosulfan I			0.800	0.705		ug/L		88	73 - 127	6	30
Endosulfan II			0.800	0.698		ug/L		87	73 - 134	2	30
Endosulfan II			0.800	0.716		ug/L		89	73 - 134	4	30
Endosulfan sulfate			0.800	0.597		ug/L		75	61 - 128	1	30
Endosulfan sulfate			0.800	0.574		ug/L		72	61 - 128	3	30
Endrin			0.800	0.674		ug/L		84	64 - 138	6	30
Endrin			0.800	0.656		ug/L		82	64 - 138	0	30
Endrin aldehyde			0.800	0.668		ug/L		83	74 - 133	2	30
Endrin aldehyde			0.800	0.661		ug/L		83	74 - 133	4	30
Endrin ketone			0.800	0.688		ug/L		86	56 - 150	2	30
Endrin ketone			0.800	0.661		ug/L		83	56 - 150	4	30
gamma-BHC (Lindane)			0.800	0.695		ug/L		87	73 - 132	3	30
gamma-BHC (Lindane)			0.800	0.661		ug/L		83	73 - 132	2	30
Heptachlor			0.800	0.693		ug/L		87	70 - 134	1	30
Heptachlor			0.800	0.664		ug/L		83	70 - 134	1	30
Heptachlor epoxide			0.800	0.700		ug/L		87	75 - 126	0	30
Heptachlor epoxide			0.800	0.665		ug/L		83	75 - 126	4	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1017868/3-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor			0.800	0.697		ug/L		87	49 - 150	22	30
Methoxychlor			0.800	0.664		ug/L		83	49 - 150	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*34 - 120*
Tetrachloro-m-xylene	*82*		*34 - 120*
DCB Decachlorobiphenyl	*55*		*30 - 131*
DCB Decachlorobiphenyl	*55*		*30 - 131*

Lab Sample ID: 460-319158-K-2-A MS
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.0030	U	0.800	0.803		ug/L		100	67 - 129
Aldrin	0.0030	U	0.800	0.775		ug/L		97	67 - 129
alpha-BHC	0.0070	U	0.800	0.815		ug/L		102	70 - 125
alpha-BHC	0.0070	U	0.800	0.782		ug/L		98	70 - 125
beta-BHC	0.015	U	0.800	0.777		ug/L		97	70 - 129
beta-BHC	0.015	U	0.800	0.709		ug/L		89	70 - 129
4,4'-DDD	0.0060	U	0.800	0.805		ug/L		101	69 - 138
4,4'-DDD	0.0060	U	0.800	0.835		ug/L		104	69 - 138
4,4'-DDE	0.0020	U	0.800	0.871		ug/L		109	68 - 130
4,4'-DDE	0.0020	U	0.800	0.838		ug/L		105	68 - 130
4,4'-DDT	0.0040	U	0.800	0.926		ug/L		116	57 - 150
4,4'-DDT	0.0040	U	0.800	0.848		ug/L		106	57 - 150
delta-BHC	0.0050	U	0.800	0.729		ug/L		91	44 - 120
delta-BHC	0.0050	U	0.800	0.702		ug/L		88	44 - 120
Dieldrin	0.0030	U	0.800	0.877		ug/L		110	72 - 128
Dieldrin	0.0030	U	0.800	0.826		ug/L		103	72 - 128
Endosulfan I	0.0020	U	0.800	0.864		ug/L		108	73 - 127
Endosulfan I	0.0020	U	0.800	0.843		ug/L		105	73 - 127
Endosulfan II	0.0040	U	0.800	0.845		ug/L		106	73 - 134
Endosulfan II	0.0040	U	0.800	0.863		ug/L		108	73 - 134
Endosulfan sulfate	0.0060	U	0.800	0.767		ug/L		96	61 - 128
Endosulfan sulfate	0.0060	U	0.800	0.716		ug/L		90	61 - 128
Endrin	0.0040	U	0.800	0.866		ug/L		108	64 - 138
Endrin	0.0040	U	0.800	0.815		ug/L		102	64 - 138
Endrin aldehyde	0.0080	U	0.800	0.595		ug/L		74	74 - 133
Endrin aldehyde	0.0080	U	0.800	0.622		ug/L		78	74 - 133
Endrin ketone	0.0080	U	0.800	0.831		ug/L		104	56 - 150
Endrin ketone	0.0080	U	0.800	0.793		ug/L		99	56 - 150
gamma-BHC (Lindane)	0.012	U	0.800	0.851		ug/L		106	73 - 132
gamma-BHC (Lindane)	0.012	U	0.800	0.793		ug/L		99	73 - 132
Heptachlor	0.0030	U	0.800	0.781		ug/L		98	70 - 134
Heptachlor	0.0030	U	0.800	0.787		ug/L		98	70 - 134
Heptachlor epoxide	0.0050	U	0.800	0.858		ug/L		107	75 - 126
Heptachlor epoxide	0.0050	U	0.800	0.798		ug/L		100	75 - 126

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319158-K-2-A MS
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Methoxychlor	0.0040	U	0.800	0.983		ug/L		123	49 - 150		
Methoxychlor	0.0040	U	0.800	0.865		ug/L		108	49 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*34 - 120*
Tetrachloro-m-xylene	*79*		*34 - 120*
DCB Decachlorobiphenyl	*71*		*30 - 131*
DCB Decachlorobiphenyl	*69*		*30 - 131*

Lab Sample ID: 460-319158-K-2-B MSD
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.0030	U	0.800	0.828		ug/L		104	67 - 129	3	30
Aldrin	0.0030	U	0.800	0.778		ug/L		97	67 - 129	0	30
alpha-BHC	0.0070	U	0.800	0.829		ug/L		104	70 - 125	2	30
alpha-BHC	0.0070	U	0.800	0.778		ug/L		97	70 - 125	1	30
beta-BHC	0.015	U	0.800	0.773		ug/L		97	70 - 129	1	30
beta-BHC	0.015	U	0.800	0.708		ug/L		89	70 - 129	0	30
4,4'-DDD	0.0060	U	0.800	0.829		ug/L		104	69 - 138	3	30
4,4'-DDD	0.0060	U	0.800	0.852		ug/L		106	69 - 138	2	30
4,4'-DDE	0.0020	U	0.800	0.907		ug/L		113	68 - 130	4	30
4,4'-DDE	0.0020	U	0.800	0.850		ug/L		106	68 - 130	1	30
4,4'-DDT	0.0040	U	0.800	0.967		ug/L		121	57 - 150	4	30
4,4'-DDT	0.0040	U	0.800	0.862		ug/L		108	57 - 150	2	30
delta-BHC	0.0050	U	0.800	0.754		ug/L		94	44 - 120	4	30
delta-BHC	0.0050	U	0.800	0.718		ug/L		90	44 - 120	2	30
Dieldrin	0.0030	U	0.800	0.911		ug/L		114	72 - 128	4	30
Dieldrin	0.0030	U	0.800	0.842		ug/L		105	72 - 128	2	30
Endosulfan I	0.0020	U	0.800	0.884		ug/L		110	73 - 127	2	30
Endosulfan I	0.0020	U	0.800	0.856		ug/L		107	73 - 127	2	30
Endosulfan II	0.0040	U	0.800	0.867		ug/L		108	73 - 134	3	30
Endosulfan II	0.0040	U	0.800	0.874		ug/L		109	73 - 134	1	30
Endosulfan sulfate	0.0060	U	0.800	0.809		ug/L		101	61 - 128	5	30
Endosulfan sulfate	0.0060	U	0.800	0.738		ug/L		92	61 - 128	3	30
Endrin	0.0040	U	0.800	0.914		ug/L		114	64 - 138	5	30
Endrin	0.0040	U	0.800	0.828		ug/L		104	64 - 138	2	30
Endrin aldehyde	0.0080	U	0.800	0.613		ug/L		77	74 - 133	3	30
Endrin aldehyde	0.0080	U	0.800	0.622		ug/L		78	74 - 133	0	30
Endrin ketone	0.0080	U	0.800	0.849		ug/L		106	56 - 150	2	30
Endrin ketone	0.0080	U	0.800	0.813		ug/L		102	56 - 150	2	30
gamma-BHC (Lindane)	0.012	U	0.800	0.859		ug/L		107	73 - 132	1	30
gamma-BHC (Lindane)	0.012	U	0.800	0.793		ug/L		99	73 - 132	0	30
Heptachlor	0.0030	U	0.800	0.785		ug/L		98	70 - 134	1	30
Heptachlor	0.0030	U	0.800	0.789		ug/L		99	70 - 134	0	30
Heptachlor epoxide	0.0050	U	0.800	0.888		ug/L		111	75 - 126	3	30
Heptachlor epoxide	0.0050	U	0.800	0.808		ug/L		101	75 - 126	1	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319158-K-2-B MSD
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor	0.0040	U	0.800	1.02		ug/L		127	49 - 150	3	30
Methoxychlor	0.0040	U	0.800	0.884		ug/L		110	49 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*34 - 120*
Tetrachloro-m-xylene	*78*		*34 - 120*
DCB Decachlorobiphenyl	*72*		*30 - 131*
DCB Decachlorobiphenyl	*71*		*30 - 131*

Lab Sample ID: MB 460-1018105/1-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1018105/1-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/25/25 18:37	01/27/25 04:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*21 - 150*	*01/25/25 18:37*	*01/27/25 04:28*	*1*
Tetrachloro-m-xylene	*66*		*21 - 150*	*01/25/25 18:37*	*01/27/25 04:28*	*1*
DCB Decachlorobiphenyl	*63*		*17 - 150*	*01/25/25 18:37*	*01/27/25 04:28*	*1*
DCB Decachlorobiphenyl	*56*		*17 - 150*	*01/25/25 18:37*	*01/27/25 04:28*	*1*

Lab Sample ID: LCS 460-1018105/2-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.133	0.111		mg/Kg		84	69 - 136
Aldrin	0.133	0.110		mg/Kg		82	69 - 136
alpha-BHC	0.133	0.118		mg/Kg		88	72 - 134
alpha-BHC	0.133	0.120		mg/Kg		90	72 - 134
beta-BHC	0.133	0.107		mg/Kg		80	71 - 130
beta-BHC	0.133	0.108		mg/Kg		81	71 - 130
4,4'-DDD	0.133	0.102		mg/Kg		77	70 - 138
4,4'-DDD	0.133	0.107		mg/Kg		80	70 - 138
4,4'-DDE	0.133	0.108		mg/Kg		81	68 - 136
4,4'-DDE	0.133	0.104		mg/Kg		78	68 - 136
4,4'-DDT	0.133	0.102		mg/Kg		77	66 - 149
4,4'-DDT	0.133	0.0969		mg/Kg		73	66 - 149
delta-BHC	0.133	0.111		mg/Kg		83	69 - 140
delta-BHC	0.133	0.110		mg/Kg		82	69 - 140
Dieldrin	0.133	0.116		mg/Kg		87	69 - 134
Dieldrin	0.133	0.112		mg/Kg		84	69 - 134
Endosulfan I	0.133	0.118		mg/Kg		89	69 - 133
Endosulfan I	0.133	0.117		mg/Kg		88	69 - 133
Endosulfan II	0.133	0.123		mg/Kg		92	71 - 137
Endosulfan II	0.133	0.121		mg/Kg		91	71 - 137
Endosulfan sulfate	0.133	0.108		mg/Kg		81	61 - 140
Endosulfan sulfate	0.133	0.104		mg/Kg		78	61 - 140
Endrin	0.133	0.121		mg/Kg		90	67 - 141
Endrin	0.133	0.121		mg/Kg		90	67 - 141
Endrin aldehyde	0.133	0.114		mg/Kg		85	71 - 136
Endrin aldehyde	0.133	0.108		mg/Kg		81	71 - 136
Endrin ketone	0.133	0.111		mg/Kg		83	60 - 146
Endrin ketone	0.133	0.105		mg/Kg		78	60 - 146
gamma-BHC (Lindane)	0.133	0.116		mg/Kg		87	72 - 139
gamma-BHC (Lindane)	0.133	0.121		mg/Kg		90	72 - 139

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1018105/2-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018105

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Heptachlor			0.133	0.107		mg/Kg		80	74 - 138		
Heptachlor			0.133	0.107		mg/Kg		80	74 - 138		
Heptachlor epoxide			0.133	0.117		mg/Kg		88	72 - 134		
Heptachlor epoxide			0.133	0.115		mg/Kg		87	72 - 134		
Methoxychlor			0.133	0.0960		mg/Kg		72	60 - 150		
Methoxychlor			0.133	0.0845		mg/Kg		63	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*21 - 150*
Tetrachloro-m-xylene	*66*		*21 - 150*
DCB Decachlorobiphenyl	*63*		*17 - 150*
DCB Decachlorobiphenyl	*53*		*17 - 150*

Lab Sample ID: LCSD 460-1018105/3-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.133	0.108		mg/Kg		81	69 - 136	3	30
Aldrin			0.133	0.108		mg/Kg		81	69 - 136	2	30
alpha-BHC			0.133	0.114		mg/Kg		86	72 - 134	3	30
alpha-BHC			0.133	0.118		mg/Kg		88	72 - 134	2	30
beta-BHC			0.133	0.103		mg/Kg		77	71 - 130	4	30
beta-BHC			0.133	0.109		mg/Kg		82	71 - 130	1	30
4,4'-DDD			0.133	0.101		mg/Kg		76	70 - 138	1	30
4,4'-DDD			0.133	0.109		mg/Kg		82	70 - 138	2	30
4,4'-DDE			0.133	0.107		mg/Kg		80	68 - 136	1	30
4,4'-DDE			0.133	0.107		mg/Kg		80	68 - 136	3	30
4,4'-DDT			0.133	0.102		mg/Kg		77	66 - 149	0	30
4,4'-DDT			0.133	0.0980		mg/Kg		74	66 - 149	1	30
delta-BHC			0.133	0.109		mg/Kg		82	69 - 140	2	30
delta-BHC			0.133	0.110		mg/Kg		82	69 - 140	0	30
Dieldrin			0.133	0.114		mg/Kg		85	69 - 134	2	30
Dieldrin			0.133	0.113		mg/Kg		85	69 - 134	1	30
Endosulfan I			0.133	0.116		mg/Kg		87	69 - 133	2	30
Endosulfan I			0.133	0.116		mg/Kg		87	69 - 133	1	30
Endosulfan II			0.133	0.121		mg/Kg		91	71 - 137	2	30
Endosulfan II			0.133	0.122		mg/Kg		92	71 - 137	1	30
Endosulfan sulfate			0.133	0.108		mg/Kg		81	61 - 140	0	30
Endosulfan sulfate			0.133	0.104		mg/Kg		78	61 - 140	0	30
Endrin			0.133	0.118		mg/Kg		88	67 - 141	3	30
Endrin			0.133	0.121		mg/Kg		91	67 - 141	0	30
Endrin aldehyde			0.133	0.115		mg/Kg		86	71 - 136	1	30
Endrin aldehyde			0.133	0.110		mg/Kg		82	71 - 136	1	30
Endrin ketone			0.133	0.109		mg/Kg		82	60 - 146	1	30
Endrin ketone			0.133	0.105		mg/Kg		79	60 - 146	0	30
gamma-BHC (Lindane)			0.133	0.110		mg/Kg		83	72 - 139	5	30
gamma-BHC (Lindane)			0.133	0.119		mg/Kg		89	72 - 139	2	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1018105/3-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Heptachlor			0.133	0.104		mg/Kg		78	74 - 138	3	30
Heptachlor			0.133	0.106		mg/Kg		79	74 - 138	1	30
Heptachlor epoxide			0.133	0.115		mg/Kg		86	72 - 134	1	30
Heptachlor epoxide			0.133	0.116		mg/Kg		87	72 - 134	0	30
Methoxychlor			0.133	0.0959		mg/Kg		72	60 - 150	0	30
Methoxychlor			0.133	0.0846		mg/Kg		63	60 - 150	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*21 - 150*
Tetrachloro-m-xylene	*63*		*21 - 150*
DCB Decachlorobiphenyl	*60*		*17 - 150*
DCB Decachlorobiphenyl	*51*		*17 - 150*

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0012	U	0.136	0.155		mg/Kg	☼	114	70 - 138
4,4'-DDD	0.0012	U	0.136	0.177		mg/Kg	☼	131	70 - 138
4,4'-DDE	0.00080	U	0.136	0.157		mg/Kg	☼	116	68 - 136
4,4'-DDE	0.00080	U	0.136	0.157		mg/Kg	☼	116	68 - 136
4,4'-DDT	0.0013	U	0.136	0.161		mg/Kg	☼	118	66 - 149
4,4'-DDT	0.0013	U	0.136	0.159		mg/Kg	☼	117	66 - 149
Aldrin	0.0010	U	0.136	0.138		mg/Kg	☼	102	69 - 136
Aldrin	0.0010	U	0.136	0.137		mg/Kg	☼	101	69 - 136
alpha-BHC	0.00069	U	0.136	0.142		mg/Kg	☼	105	72 - 134
alpha-BHC	0.00069	U	0.136	0.147		mg/Kg	☼	108	72 - 134
beta-BHC	0.00076	U	0.136	0.137		mg/Kg	☼	101	71 - 130
beta-BHC	0.00076	U	0.136	0.151		mg/Kg	☼	111	71 - 130
delta-BHC	0.00042	U	0.136	0.159		mg/Kg	☼	117	69 - 140
delta-BHC	0.00042	U	0.136	0.161		mg/Kg	☼	119	69 - 140
Dieldrin	0.00088	U	0.136	0.158		mg/Kg	☼	116	69 - 134
Dieldrin	0.00088	U	0.136	0.158		mg/Kg	☼	117	69 - 134
Endosulfan I	0.0010	U	0.136	0.153		mg/Kg	☼	113	69 - 133
Endosulfan I	0.0010	U	0.136	0.160		mg/Kg	☼	118	69 - 133
Endosulfan II	0.0017	U	0.136	0.174		mg/Kg	☼	128	71 - 137
Endosulfan II	0.0017	U	0.136	0.179		mg/Kg	☼	132	71 - 137
Endosulfan sulfate	0.00085	U	0.136	0.159		mg/Kg	☼	117	61 - 140
Endosulfan sulfate	0.00085	U	0.136	0.160		mg/Kg	☼	118	61 - 140
Endrin	0.00098	U	0.136	0.166		mg/Kg	☼	122	67 - 141
Endrin	0.00098	U	0.136	0.179		mg/Kg	☼	132	67 - 141
Endrin aldehyde	0.0016	U	0.136	0.141		mg/Kg	☼	104	71 - 136
Endrin aldehyde	0.0016	U	0.136	0.140		mg/Kg	☼	103	71 - 136
Endrin ketone	0.0013	U	0.136	0.167		mg/Kg	☼	123	60 - 146
Endrin ketone	0.0013	U	0.136	0.161		mg/Kg	☼	119	60 - 146
gamma-BHC (Lindane)	0.00063	U	0.136	0.144		mg/Kg	☼	106	72 - 139
gamma-BHC (Lindane)	0.00063	U	0.136	0.152		mg/Kg	☼	112	72 - 139

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	0.00080	U	0.136	0.143		mg/Kg	☼	106	74 - 138
Heptachlor	0.00080	U	0.136	0.148		mg/Kg	☼	109	74 - 138
Heptachlor epoxide	0.0010	U	0.136	0.157		mg/Kg	☼	116	72 - 134
Heptachlor epoxide	0.0010	U	0.136	0.156		mg/Kg	☼	115	72 - 134
Methoxychlor	0.0016	U	0.136	0.159		mg/Kg	☼	117	60 - 150
Methoxychlor	0.0016	U	0.136	0.144		mg/Kg	☼	106	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*17 - 150*
DCB Decachlorobiphenyl	*67*		*17 - 150*
Tetrachloro-m-xylene	*61*		*21 - 150*
Tetrachloro-m-xylene	*58*		*21 - 150*

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0012	U	0.136	0.169		mg/Kg	☼	125	70 - 138	9	30
4,4'-DDD	0.0012	U	0.136	0.175		mg/Kg	☼	129	70 - 138	1	30
4,4'-DDE	0.00080	U	0.136	0.170		mg/Kg	☼	125	68 - 136	8	30
4,4'-DDE	0.00080	U	0.136	0.157		mg/Kg	☼	116	68 - 136	0	30
4,4'-DDT	0.0013	U	0.136	0.176		mg/Kg	☼	130	66 - 149	9	30
4,4'-DDT	0.0013	U	0.136	0.158		mg/Kg	☼	117	66 - 149	0	30
Aldrin	0.0010	U	0.136	0.150		mg/Kg	☼	111	69 - 136	9	30
Aldrin	0.0010	U	0.136	0.139		mg/Kg	☼	102	69 - 136	2	30
alpha-BHC	0.00069	U	0.136	0.157		mg/Kg	☼	116	72 - 134	10	30
alpha-BHC	0.00069	U	0.136	0.154		mg/Kg	☼	113	72 - 134	5	30
beta-BHC	0.00076	U	0.136	0.158		mg/Kg	☼	117	71 - 130	14	30
beta-BHC	0.00076	U	0.136	0.155		mg/Kg	☼	115	71 - 130	3	30
delta-BHC	0.00042	U	0.136	0.172		mg/Kg	☼	127	69 - 140	8	30
delta-BHC	0.00042	U	0.136	0.163		mg/Kg	☼	120	69 - 140	1	30
Dieldrin	0.00088	U	0.136	0.171		mg/Kg	☼	126	69 - 134	8	30
Dieldrin	0.00088	U	0.136	0.158		mg/Kg	☼	116	69 - 134	0	30
Endosulfan I	0.0010	U	0.136	0.172		mg/Kg	☼	127	69 - 133	11	30
Endosulfan I	0.0010	U	0.136	0.160		mg/Kg	☼	118	69 - 133	0	30
Endosulfan II	0.0017	U	0.136	0.190	F1	mg/Kg	☼	140	71 - 137	9	30
Endosulfan II	0.0017	U	0.136	0.177		mg/Kg	☼	131	71 - 137	1	30
Endosulfan sulfate	0.00085	U	0.136	0.171		mg/Kg	☼	126	61 - 140	7	30
Endosulfan sulfate	0.00085	U	0.136	0.158		mg/Kg	☼	117	61 - 140	1	30
Endrin	0.00098	U	0.136	0.176		mg/Kg	☼	130	67 - 141	6	30
Endrin	0.00098	U	0.136	0.172		mg/Kg	☼	127	67 - 141	4	30
Endrin aldehyde	0.0016	U	0.136	0.149		mg/Kg	☼	110	71 - 136	6	30
Endrin aldehyde	0.0016	U	0.136	0.135		mg/Kg	☼	100	71 - 136	3	30
Endrin ketone	0.0013	U	0.136	0.184		mg/Kg	☼	136	60 - 146	10	30
Endrin ketone	0.0013	U	0.136	0.165		mg/Kg	☼	122	60 - 146	2	30
gamma-BHC (Lindane)	0.00063	U	0.136	0.162		mg/Kg	☼	119	72 - 139	12	30
gamma-BHC (Lindane)	0.00063	U	0.136	0.156		mg/Kg	☼	115	72 - 139	2	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Heptachlor	0.00080	U	0.136	0.157		mg/Kg	☼	116	74 - 138	9	30
Heptachlor	0.00080	U	0.136	0.151		mg/Kg	☼	111	74 - 138	2	30
Heptachlor epoxide	0.0010	U	0.136	0.170		mg/Kg	☼	125	72 - 134	8	30
Heptachlor epoxide	0.0010	U	0.136	0.156		mg/Kg	☼	115	72 - 134	0	30
Methoxychlor	0.0016	U	0.136	0.172		mg/Kg	☼	127	60 - 150	8	30
Methoxychlor	0.0016	U	0.136	0.142		mg/Kg	☼	105	60 - 150	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*83*		*17 - 150*
DCB Decachlorobiphenyl	*68*		*17 - 150*
Tetrachloro-m-xylene	*65*		*21 - 150*
Tetrachloro-m-xylene	*61*		*21 - 150*

Lab Sample ID: MB 460-1024180/1-A
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/05/25 10:29	03/05/25 20:42	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1024180/1-A
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		03/05/25 10:29	03/05/25 20:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*21 - 150*	*03/05/25 10:29*	*03/05/25 20:42*	*1*
Tetrachloro-m-xylene	*43*		*21 - 150*	*03/05/25 10:29*	*03/05/25 20:42*	*1*
DCB Decachlorobiphenyl	*58*		*17 - 150*	*03/05/25 10:29*	*03/05/25 20:42*	*1*
DCB Decachlorobiphenyl	*56*		*17 - 150*	*03/05/25 10:29*	*03/05/25 20:42*	*1*

Lab Sample ID: LCS 460-1024180/2-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.133	0.121		mg/Kg		90	69 - 136
Aldrin	0.133	0.132		mg/Kg		99	69 - 136
alpha-BHC	0.133	0.132		mg/Kg		99	72 - 134
alpha-BHC	0.133	0.145		mg/Kg		109	72 - 134
beta-BHC	0.133	0.121		mg/Kg		90	71 - 130
beta-BHC	0.133	0.134		mg/Kg		100	71 - 130
4,4'-DDD	0.133	0.124		mg/Kg		93	70 - 138
4,4'-DDD	0.133	0.130		mg/Kg		98	70 - 138
4,4'-DDE	0.133	0.122		mg/Kg		91	68 - 136
4,4'-DDE	0.133	0.133		mg/Kg		100	68 - 136
4,4'-DDT	0.133	0.148		mg/Kg		111	66 - 149
4,4'-DDT	0.133	0.147		mg/Kg		110	66 - 149
delta-BHC	0.133	0.139		mg/Kg		104	69 - 140
delta-BHC	0.133	0.149		mg/Kg		112	69 - 140
Dieldrin	0.133	0.118		mg/Kg		89	69 - 134
Dieldrin	0.133	0.130		mg/Kg		97	69 - 134
Endosulfan I	0.133	0.122		mg/Kg		92	69 - 133
Endosulfan I	0.133	0.131		mg/Kg		98	69 - 133
Endosulfan II	0.133	0.124		mg/Kg		93	71 - 137
Endosulfan II	0.133	0.136		mg/Kg		102	71 - 137
Endosulfan sulfate	0.133	0.130		mg/Kg		98	61 - 140
Endosulfan sulfate	0.133	0.133		mg/Kg		100	61 - 140
Endrin	0.133	0.126		mg/Kg		95	67 - 141
Endrin	0.133	0.145		mg/Kg		109	67 - 141
Endrin aldehyde	0.133	0.118		mg/Kg		89	71 - 136
Endrin aldehyde	0.133	0.121		mg/Kg		91	71 - 136

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1024180/2-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024180

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin ketone			0.133	0.132		mg/Kg		99	60 - 146		
Endrin ketone			0.133	0.138		mg/Kg		103	60 - 146		
gamma-BHC (Lindane)			0.133	0.135		mg/Kg		101	72 - 139		
gamma-BHC (Lindane)			0.133	0.143		mg/Kg		107	72 - 139		
Heptachlor			0.133	0.138		mg/Kg		103	74 - 138		
Heptachlor			0.133	0.146		mg/Kg		109	74 - 138		
Heptachlor epoxide			0.133	0.121		mg/Kg		91	72 - 134		
Heptachlor epoxide			0.133	0.132		mg/Kg		99	72 - 134		
Methoxychlor			0.133	0.167		mg/Kg		126	60 - 150		
Methoxychlor			0.133	0.144		mg/Kg		108	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*21 - 150*
Tetrachloro-m-xylene	*89*		*21 - 150*
DCB Decachlorobiphenyl	*56*		*17 - 150*
DCB Decachlorobiphenyl	*55*		*17 - 150*

Lab Sample ID: LCSD 460-1024180/3-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.133	0.127		mg/Kg		95	69 - 136	5	30
Aldrin			0.133	0.155		mg/Kg		117	69 - 136	16	30
alpha-BHC			0.133	0.138		mg/Kg		103	72 - 134	4	30
alpha-BHC			0.133	0.169		mg/Kg		127	72 - 134	15	30
beta-BHC			0.133	0.126		mg/Kg		94	71 - 130	4	30
beta-BHC			0.133	0.155		mg/Kg		116	71 - 130	15	30
4,4'-DDD			0.133	0.132		mg/Kg		99	70 - 138	6	30
4,4'-DDD			0.133	0.154		mg/Kg		115	70 - 138	16	30
4,4'-DDE			0.133	0.129		mg/Kg		97	68 - 136	6	30
4,4'-DDE			0.133	0.158		mg/Kg		119	68 - 136	17	30
4,4'-DDT			0.133	0.156		mg/Kg		117	66 - 149	5	30
4,4'-DDT			0.133	0.169		mg/Kg		127	66 - 149	14	30
delta-BHC			0.133	0.136		mg/Kg		102	69 - 140	2	30
delta-BHC			0.133	0.172		mg/Kg		129	69 - 140	14	30
Dieldrin			0.133	0.125		mg/Kg		94	69 - 134	6	30
Dieldrin			0.133	0.153		mg/Kg		115	69 - 134	16	30
Endosulfan I			0.133	0.126		mg/Kg		95	69 - 133	3	30
Endosulfan I			0.133	0.155		mg/Kg		117	69 - 133	17	30
Endosulfan II			0.133	0.131		mg/Kg		99	71 - 137	6	30
Endosulfan II			0.133	0.160		mg/Kg		120	71 - 137	16	30
Endosulfan sulfate			0.133	0.138		mg/Kg		104	61 - 140	6	30
Endosulfan sulfate			0.133	0.155		mg/Kg		116	61 - 140	15	30
Endrin			0.133	0.132		mg/Kg		99	67 - 141	5	30
Endrin			0.133	0.170		mg/Kg		128	67 - 141	16	30
Endrin aldehyde			0.133	0.126		mg/Kg		95	71 - 136	6	30
Endrin aldehyde			0.133	0.142		mg/Kg		106	71 - 136	16	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1024180/3-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin ketone			0.133	0.136		mg/Kg		102	60 - 146	3	30
Endrin ketone			0.133	0.161		mg/Kg		121	60 - 146	16	30
gamma-BHC (Lindane)			0.133	0.141		mg/Kg		106	72 - 139	4	30
gamma-BHC (Lindane)			0.133	0.166		mg/Kg		124	72 - 139	15	30
Heptachlor			0.133	0.145		mg/Kg		108	74 - 138	5	30
Heptachlor			0.133	0.170		mg/Kg		127	74 - 138	15	30
Heptachlor epoxide			0.133	0.128		mg/Kg		96	72 - 134	6	30
Heptachlor epoxide			0.133	0.155		mg/Kg		117	72 - 134	16	30
Methoxychlor			0.133	0.178		mg/Kg		134	60 - 150	6	30
Methoxychlor			0.133	0.168		mg/Kg		126	60 - 150	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*21 - 150*
Tetrachloro-m-xylene	*101*		*21 - 150*
DCB Decachlorobiphenyl	*61*		*17 - 150*
DCB Decachlorobiphenyl	*67*		*17 - 150*

Lab Sample ID: 460-319165-B-15-G MS
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.0010	U	0.136	0.112		mg/Kg	☼	82	69 - 136
Aldrin	0.0010	U	0.136	0.115		mg/Kg	☼	85	69 - 136
alpha-BHC	0.00069	U	0.136	0.117		mg/Kg	☼	86	72 - 134
alpha-BHC	0.00069	U	0.136	0.122		mg/Kg	☼	90	72 - 134
beta-BHC	0.00076	U	0.136	0.111		mg/Kg	☼	81	71 - 130
beta-BHC	0.00076	U	0.136	0.116		mg/Kg	☼	85	71 - 130
4,4'-DDD	0.0012	U	0.136	0.117		mg/Kg	☼	86	70 - 138
4,4'-DDD	0.0012	U	0.136	0.118		mg/Kg	☼	87	70 - 138
4,4'-DDE	0.00081	U	0.136	0.113		mg/Kg	☼	83	68 - 136
4,4'-DDE	0.00081	U	0.136	0.121		mg/Kg	☼	89	68 - 136
4,4'-DDT	0.0013	U	0.136	0.140		mg/Kg	☼	103	66 - 149
4,4'-DDT	0.0013	U	0.136	0.129		mg/Kg	☼	95	66 - 149
delta-BHC	0.00042	U	0.136	0.113		mg/Kg	☼	83	69 - 140
delta-BHC	0.00042	U	0.136	0.113		mg/Kg	☼	83	69 - 140
Dieldrin	0.00089	U	0.136	0.113		mg/Kg	☼	83	69 - 134
Dieldrin	0.00089	U	0.136	0.118		mg/Kg	☼	87	69 - 134
Endosulfan I	0.0010	U	0.136	0.116		mg/Kg	☼	85	69 - 133
Endosulfan I	0.0010	U	0.136	0.120		mg/Kg	☼	88	69 - 133
Endosulfan II	0.0018	U	0.136	0.119		mg/Kg	☼	87	71 - 137
Endosulfan II	0.0018	U	0.136	0.120		mg/Kg	☼	88	71 - 137
Endosulfan sulfate	0.00086	U	0.136	0.120		mg/Kg	☼	88	61 - 140
Endosulfan sulfate	0.00086	U	0.136	0.113		mg/Kg	☼	83	61 - 140
Endrin	0.00098	U	0.136	0.118		mg/Kg	☼	87	67 - 141
Endrin	0.00098	U	0.136	0.133		mg/Kg	☼	97	67 - 141
Endrin aldehyde	0.0016	U	0.136	0.101		mg/Kg	☼	74	71 - 136
Endrin aldehyde	0.0016	U	0.136	0.0997		mg/Kg	☼	73	71 - 136

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319165-B-15-G MS
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin ketone	0.0013	U	0.136	0.128		mg/Kg	☼	94	60 - 146
Endrin ketone	0.0013	U	0.136	0.122		mg/Kg	☼	90	60 - 146
gamma-BHC (Lindane)	0.00063	U	0.136	0.115		mg/Kg	☼	84	72 - 139
gamma-BHC (Lindane)	0.00063	U	0.136	0.119		mg/Kg	☼	88	72 - 139
Heptachlor	0.00081	U	0.136	0.124		mg/Kg	☼	91	74 - 138
Heptachlor	0.00081	U	0.136	0.125		mg/Kg	☼	92	74 - 138
Heptachlor epoxide	0.0010	U	0.136	0.112		mg/Kg	☼	82	72 - 134
Heptachlor epoxide	0.0010	U	0.136	0.119		mg/Kg	☼	87	72 - 134
Methoxychlor	0.0016	U	0.136	0.159		mg/Kg	☼	117	60 - 150
Methoxychlor	0.0016	U	0.136	0.128		mg/Kg	☼	94	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*21 - 150*
Tetrachloro-m-xylene	*71*		*21 - 150*
DCB Decachlorobiphenyl	*50*		*17 - 150*
DCB Decachlorobiphenyl	*55*		*17 - 150*

Lab Sample ID: 460-319165-C-15-L MSD
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.0010	U	0.136	0.110		mg/Kg	☼	81	69 - 136	2	30
Aldrin	0.0010	U	0.136	0.117		mg/Kg	☼	86	69 - 136	2	30
alpha-BHC	0.00069	U	0.136	0.116		mg/Kg	☼	85	72 - 134	1	30
alpha-BHC	0.00069	U	0.136	0.123		mg/Kg	☼	91	72 - 134	1	30
beta-BHC	0.00076	U	0.136	0.109		mg/Kg	☼	80	71 - 130	1	30
beta-BHC	0.00076	U	0.136	0.119		mg/Kg	☼	87	71 - 130	2	30
4,4'-DDD	0.0012	U	0.136	0.114		mg/Kg	☼	84	70 - 138	3	30
4,4'-DDD	0.0012	U	0.136	0.117		mg/Kg	☼	86	70 - 138	1	30
4,4'-DDE	0.00081	U	0.136	0.111		mg/Kg	☼	82	68 - 136	2	30
4,4'-DDE	0.00081	U	0.136	0.122		mg/Kg	☼	90	68 - 136	1	30
4,4'-DDT	0.0013	U	0.136	0.137		mg/Kg	☼	100	66 - 149	3	30
4,4'-DDT	0.0013	U	0.136	0.131		mg/Kg	☼	96	66 - 149	1	30
delta-BHC	0.00042	U	0.136	0.112		mg/Kg	☼	82	69 - 140	2	30
delta-BHC	0.00042	U	0.136	0.116		mg/Kg	☼	85	69 - 140	2	30
Dieldrin	0.00089	U	0.136	0.109		mg/Kg	☼	80	69 - 134	4	30
Dieldrin	0.00089	U	0.136	0.118		mg/Kg	☼	87	69 - 134	0	30
Endosulfan I	0.0010	U	0.136	0.113		mg/Kg	☼	83	69 - 133	2	30
Endosulfan I	0.0010	U	0.136	0.122		mg/Kg	☼	89	69 - 133	2	30
Endosulfan II	0.0018	U	0.136	0.115		mg/Kg	☼	85	71 - 137	3	30
Endosulfan II	0.0018	U	0.136	0.113		mg/Kg	☼	83	71 - 137	6	30
Endosulfan sulfate	0.00086	U	0.136	0.118		mg/Kg	☼	86	61 - 140	2	30
Endosulfan sulfate	0.00086	U	0.136	0.116		mg/Kg	☼	85	61 - 140	3	30
Endrin	0.00098	U	0.136	0.114		mg/Kg	☼	84	67 - 141	3	30
Endrin	0.00098	U	0.136	0.135		mg/Kg	☼	99	67 - 141	2	30
Endrin aldehyde	0.0016	U	0.136	0.0982		mg/Kg	☼	72	71 - 136	3	30
Endrin aldehyde	0.0016	U	0.136	0.0995		mg/Kg	☼	73	71 - 136	0	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319165-C-15-L MSD
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin ketone	0.0013	U	0.136	0.125		mg/Kg	☼	92	60 - 146	3	30
Endrin ketone	0.0013	U	0.136	0.126		mg/Kg	☼	93	60 - 146	3	30
gamma-BHC (Lindane)	0.00063	U	0.136	0.113		mg/Kg	☼	83	72 - 139	1	30
gamma-BHC (Lindane)	0.00063	U	0.136	0.123		mg/Kg	☼	90	72 - 139	3	30
Heptachlor	0.00081	U	0.136	0.122		mg/Kg	☼	89	74 - 138	2	30
Heptachlor	0.00081	U	0.136	0.125		mg/Kg	☼	92	74 - 138	0	30
Heptachlor epoxide	0.0010	U	0.136	0.110		mg/Kg	☼	81	72 - 134	2	30
Heptachlor epoxide	0.0010	U	0.136	0.121		mg/Kg	☼	89	72 - 134	2	30
Methoxychlor	0.0016	U	0.136	0.159		mg/Kg	☼	117	60 - 150	0	30
Methoxychlor	0.0016	U	0.136	0.131		mg/Kg	☼	96	60 - 150	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*21 - 150*
Tetrachloro-m-xylene	*71*		*21 - 150*
DCB Decachlorobiphenyl	*46*		*17 - 150*
DCB Decachlorobiphenyl	*51*		*17 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-1017866/1-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*18 - 145*	*01/23/25 20:09*	*01/24/25 06:26*	*1*
DCB Decachlorobiphenyl	*64*		*18 - 145*	*01/23/25 20:09*	*01/24/25 06:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1017866/1-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017866

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		21 - 124	01/23/25 20:09	01/24/25 06:26	1
Tetrachloro-m-xylene	78		21 - 124	01/23/25 20:09	01/24/25 06:26	1

Lab Sample ID: LCS 460-1017866/2-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017866

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			4.00	3.18		ug/L		80	42 - 120		
Aroclor 1016			4.00	3.46		ug/L		86	42 - 120		
Aroclor 1260			4.00	3.17		ug/L		79	42 - 126		
Aroclor 1260			4.00	3.83		ug/L		96	42 - 126		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	63		18 - 145
DCB Decachlorobiphenyl	72		18 - 145
Tetrachloro-m-xylene	78		21 - 124
Tetrachloro-m-xylene	87		21 - 124

Lab Sample ID: LCSD 460-1017866/3-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017866

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.36		ug/L		84	42 - 120	5	30
Aroclor 1016			4.00	3.12		ug/L		78	42 - 120	10	30
Aroclor 1260			4.00	3.34		ug/L		83	42 - 126	5	30
Aroclor 1260			4.00	3.65		ug/L		91	42 - 126	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	63		18 - 145
DCB Decachlorobiphenyl	66		18 - 145
Tetrachloro-m-xylene	81		21 - 124
Tetrachloro-m-xylene	80		21 - 124

Lab Sample ID: 460-319158-H-2-A MS
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.12	U	4.00	3.54		ug/L		88	42 - 120		
Aroclor 1016	0.12	U	4.00	3.57		ug/L		89	42 - 120		
Aroclor 1260	0.11	U	4.00	3.60		ug/L		90	42 - 126		
Aroclor 1260	0.11	U	4.00	3.80		ug/L		95	42 - 126		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	78		18 - 145

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319158-H-2-A MS
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017866

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	70		18 - 145
Tetrachloro-m-xylene	79		21 - 124
Tetrachloro-m-xylene	81		21 - 124

Lab Sample ID: 460-319158-H-2-B MSD
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.12	U	4.00	3.56		ug/L		89	42 - 120	1	30
Aroclor 1016	0.12	U	4.00	3.64		ug/L		91	42 - 120	2	30
Aroclor 1260	0.11	U	4.00	3.72		ug/L		93	42 - 126	3	30
Aroclor 1260	0.11	U	4.00	4.02		ug/L		101	42 - 126	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	72		18 - 145
DCB Decachlorobiphenyl	70		18 - 145
Tetrachloro-m-xylene	79		21 - 124
Tetrachloro-m-xylene	81		21 - 124

Lab Sample ID: MB 460-1018104/1-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		20 - 150	01/25/25 18:34	01/27/25 07:22	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1018104/1-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018104

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		20 - 150	01/25/25 18:34	01/27/25 07:22	1
Tetrachloro-m-xylene	81		20 - 150	01/25/25 18:34	01/27/25 07:22	1
Tetrachloro-m-xylene	78		20 - 150	01/25/25 18:34	01/27/25 07:22	1

Lab Sample ID: LCS 460-1018104/2-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018104

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.320		mg/Kg		96	54 - 136		
Aroclor 1016			0.333	0.296		mg/Kg		89	54 - 136		
Aroclor 1260			0.333	0.329		mg/Kg		99	53 - 145		
Aroclor 1260			0.333	0.331		mg/Kg		99	53 - 145		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	77		20 - 150
DCB Decachlorobiphenyl	77		20 - 150
Tetrachloro-m-xylene	82		20 - 150
Tetrachloro-m-xylene	81		20 - 150

Lab Sample ID: LCSD 460-1018104/3-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.317		mg/Kg		95	54 - 136	1	30
Aroclor 1016			0.333	0.295		mg/Kg		88	54 - 136	1	30
Aroclor 1260			0.333	0.331		mg/Kg		99	53 - 145	1	30
Aroclor 1260			0.333	0.303		mg/Kg		91	53 - 145	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	79		20 - 150
DCB Decachlorobiphenyl	78		20 - 150
Tetrachloro-m-xylene	82		20 - 150
Tetrachloro-m-xylene	80		20 - 150

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.018	U	0.339	0.452		mg/Kg	☼	133	54 - 136		
Aroclor 1016	0.018	U	0.339	0.431		mg/Kg	☼	127	54 - 136		
Aroclor 1260	0.018	U	0.339	0.473		mg/Kg	☼	139	53 - 145		
Aroclor 1260	0.018	U	0.339	0.483		mg/Kg	☼	143	53 - 145		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018104

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*20 - 150*
DCB Decachlorobiphenyl	*93*		*20 - 150*
Tetrachloro-m-xylene	*83*		*20 - 150*
Tetrachloro-m-xylene	*83*		*20 - 150*

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018104

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.018	U	0.339	0.469	F1	mg/Kg	☼	138	54 - 136	4	30
Aroclor 1016	0.018	U	0.339	0.446		mg/Kg	☼	132	54 - 136	3	30
Aroclor 1260	0.018	U	0.339	0.500	F1	mg/Kg	☼	148	53 - 145	6	30
Aroclor 1260	0.018	U	0.339	0.505	F1	mg/Kg	☼	149	53 - 145	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*98*		*20 - 150*
DCB Decachlorobiphenyl	*99*		*20 - 150*
Tetrachloro-m-xylene	*86*		*20 - 150*
Tetrachloro-m-xylene	*85*		*20 - 150*

Lab Sample ID: MB 460-1024184/1-A
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1024184/1-A
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024184

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	52		20 - 150	03/05/25 10:34	03/05/25 20:17	1
DCB Decachlorobiphenyl	54		20 - 150	03/05/25 10:34	03/05/25 20:17	1
Tetrachloro-m-xylene	36		20 - 150	03/05/25 10:34	03/05/25 20:17	1
Tetrachloro-m-xylene	37		20 - 150	03/05/25 10:34	03/05/25 20:17	1

Lab Sample ID: LCS 460-1024184/2-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024184

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.353		mg/Kg		106	54 - 136		
Aroclor 1016			0.333	0.335		mg/Kg		100	54 - 136		
Aroclor 1260			0.333	0.337		mg/Kg		101	53 - 145		
Aroclor 1260			0.333	0.350		mg/Kg		105	53 - 145		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		20 - 150
DCB Decachlorobiphenyl	73		20 - 150
Tetrachloro-m-xylene	102		20 - 150
Tetrachloro-m-xylene	101		20 - 150

Lab Sample ID: LCSD 460-1024184/3-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024184

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.342		mg/Kg		103	54 - 136	3	30
Aroclor 1016			0.333	0.317		mg/Kg		95	54 - 136	5	30
Aroclor 1260			0.333	0.340		mg/Kg		102	53 - 145	1	30
Aroclor 1260			0.333	0.331		mg/Kg		99	53 - 145	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	70		20 - 150
DCB Decachlorobiphenyl	68		20 - 150
Tetrachloro-m-xylene	95		20 - 150
Tetrachloro-m-xylene	92		20 - 150

Lab Sample ID: 460-319165-B-15-H MS
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024184

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.018	U	0.340	0.247		mg/Kg	☼	73	54 - 136		
Aroclor 1016	0.018	U	0.340	0.231		mg/Kg	☼	68	54 - 136		
Aroclor 1260	0.018	U	0.340	0.234		mg/Kg	☼	69	53 - 145		
Aroclor 1260	0.018	U	0.340	0.243		mg/Kg	☼	71	53 - 145		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319165-B-15-H MS
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024184

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	51		20 - 150
DCB Decachlorobiphenyl	52		20 - 150
Tetrachloro-m-xylene	67		20 - 150
Tetrachloro-m-xylene	67		20 - 150

Lab Sample ID: 460-319165-C-15-N MSD
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024184

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.018	U	0.340	0.259		mg/Kg	☼	76	54 - 136	5	30
Aroclor 1016	0.018	U	0.340	0.243		mg/Kg	☼	71	54 - 136	5	30
Aroclor 1260	0.018	U	0.340	0.215		mg/Kg	☼	63	53 - 145	9	30
Aroclor 1260	0.018	U	0.340	0.254		mg/Kg	☼	75	53 - 145	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	53		20 - 150
DCB Decachlorobiphenyl	53		20 - 150
Tetrachloro-m-xylene	72		20 - 150
Tetrachloro-m-xylene	72		20 - 150

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Lab Sample ID: MB 460-1017765/1-A
Matrix: Solid
Analysis Batch: 1017944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/23/25 09:47	01/24/25 10:10	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		01/23/25 09:47	01/24/25 10:10	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/23/25 09:47	01/24/25 10:10	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		01/23/25 09:47	01/24/25 10:10	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		01/23/25 09:47	01/24/25 10:10	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		01/23/25 09:47	01/24/25 10:10	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		01/23/25 09:47	01/24/25 10:10	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		01/23/25 09:47	01/24/25 10:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		40 - 140	01/23/25 09:47	01/24/25 10:10	1
2-Fluorobiphenyl	88		40 - 140	01/23/25 09:47	01/24/25 10:10	1
2-Bromonaphthalene	87		40 - 140	01/23/25 09:47	01/24/25 10:10	1
1-Chlorooctadecane	85		40 - 140	01/23/25 09:47	01/24/25 10:10	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCS 460-1017765/2-A
Matrix: Solid
Analysis Batch: 1017944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017765

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics			20.0	11.8		mg/Kg		59	40 - 140		
C9-C12 Aliphatics			26.7	14.4		mg/Kg		54	40 - 140		
C16-C21 Aliphatics			20.0	18.6		mg/Kg		93	40 - 140		
C21-C40 Aliphatics			66.7	46.2		mg/Kg		69	40 - 140		
C16-C21 Aromatics			33.3	28.6		mg/Kg		86	40 - 140		
C10-C12 Aromatics			20.0	13.1		mg/Kg		66	40 - 140		
C12-C16 Aromatics			26.7	18.4		mg/Kg		69	40 - 140		
C21-C36 Aromatic			53.3	41.3		mg/Kg		77	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*82*		*40 - 140*
2-Fluorobiphenyl	*95*		*40 - 140*
2-Bromonaphthalene	*94*		*40 - 140*
1-Chlorooctadecane	*92*		*40 - 140*

Lab Sample ID: LCSD 460-1017765/3-A
Matrix: Solid
Analysis Batch: 1017944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017765

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics			20.0	11.7		mg/Kg		59	40 - 140	0	25
C9-C12 Aliphatics			26.7	14.3		mg/Kg		54	40 - 140	1	25
C16-C21 Aliphatics			20.0	18.4		mg/Kg		92	40 - 140	1	25
C21-C40 Aliphatics			66.7	46.6		mg/Kg		70	40 - 140	1	25
C16-C21 Aromatics			33.3	27.7		mg/Kg		83	40 - 140	3	25
C10-C12 Aromatics			20.0	13.5		mg/Kg		67	40 - 140	3	25
C12-C16 Aromatics			26.7	18.1		mg/Kg		68	40 - 140	2	25
C21-C36 Aromatic			53.3	40.7		mg/Kg		76	40 - 140	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*80*		*40 - 140*
2-Fluorobiphenyl	*92*		*40 - 140*
2-Bromonaphthalene	*90*		*40 - 140*
1-Chlorooctadecane	*91*		*40 - 140*

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1017944

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics	2.0	U F1	20.3	7.67	F1	mg/Kg	☼	38	40 - 140		
C9-C12 Aliphatics	3.0	U F1	27.1	9.06	F1	mg/Kg	☼	33	40 - 140		
C16-C21 Aliphatics	2.0	U	20.3	12.1		mg/Kg	☼	60	40 - 140		
C21-C40 Aliphatics	7.1	U	67.7	31.1		mg/Kg	☼	46	40 - 140		
C16-C21 Aromatics	5.1	U	33.9	26.4		mg/Kg	☼	78	40 - 140		
C10-C12 Aromatics	2.0	U	20.3	11.5		mg/Kg	☼	57	40 - 140		
C12-C16 Aromatics	3.0	U	27.1	16.1		mg/Kg	☼	59	40 - 140		
C21-C36 Aromatic	8.1	U	54.2	38.9		mg/Kg	☼	72	40 - 140		

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	72		40 - 140
2-Fluorobiphenyl	89		40 - 140
2-Bromonaphthalene	86		40 - 140
1-Chlorooctadecane	61		40 - 140

Lab Sample ID: 460-319135-15 MSD — **Client Sample ID: IA-06-CS-8**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1017944 — **Prep Batch: 1017765**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.0	U F1	20.3	7.97	F1	mg/Kg	☼	39	40 - 140	4	25
C9-C12 Aliphatics	3.0	U F1	27.1	9.33	F1	mg/Kg	☼	34	40 - 140	3	25
C16-C21 Aliphatics	2.0	U	20.3	12.3		mg/Kg	☼	61	40 - 140	2	25
C21-C40 Aliphatics	7.1	U	67.7	32.7		mg/Kg	☼	48	40 - 140	5	25
C16-C21 Aromatics	5.1	U	33.9	27.9		mg/Kg	☼	82	40 - 140	5	25
C10-C12 Aromatics	2.0	U	20.3	13.0		mg/Kg	☼	64	40 - 140	12	25
C12-C16 Aromatics	3.0	U	27.1	17.9		mg/Kg	☼	66	40 - 140	10	25
C21-C36 Aromatic	8.1	U	54.2	40.1		mg/Kg	☼	74	40 - 140	3	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	76		40 - 140
2-Fluorobiphenyl	89		40 - 140
2-Bromonaphthalene	85		40 - 140
1-Chlorooctadecane	63		40 - 140

Lab Sample ID: MB 460-1018029/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 1018053 — **Prep Batch: 1018029**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH (C9-C40)	0.40	U	0.40	0.40	mg/L		01/24/25 20:35	01/25/25 10:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		40 - 140	01/24/25 20:35	01/25/25 10:08	1
1-Chlorooctadecane	85		40 - 140	01/24/25 20:35	01/25/25 10:08	1

Lab Sample ID: LCS 460-1018029/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 1018053 — **Prep Batch: 1018029**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total EPH (C9-C40)			4.00	3.00		mg/L		75	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	75		40 - 140
1-Chlorooctadecane	96		40 - 140

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCSD 460-1018029/3-A
Matrix: Water
Analysis Batch: 1018053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018029

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total EPH (C9-C40)			4.00	3.02		mg/L		75	40 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*72*		*40 - 140*
1-Chlorooctadecane	*93*		*40 - 140*

Lab Sample ID: MB 460-1024177/1-A
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*40 - 140*	*03/05/25 10:24*	*03/05/25 21:09*	*1*
2-Fluorobiphenyl	*87*		*40 - 140*	*03/05/25 10:24*	*03/05/25 21:09*	*1*
2-Bromonaphthalene	*77*		*40 - 140*	*03/05/25 10:24*	*03/05/25 21:09*	*1*
1-Chlorooctadecane	*86*		*40 - 140*	*03/05/25 10:24*	*03/05/25 21:09*	*1*

Lab Sample ID: LCS 460-1024177/2-A
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024177

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics			20.0	8.92		mg/Kg		45	40 - 140
C9-C12 Aliphatics			26.7	10.8		mg/Kg		41	40 - 140
C16-C21 Aliphatics			20.0	13.8		mg/Kg		69	40 - 140
C21-C40 Aliphatics			66.7	43.7		mg/Kg		65	40 - 140
C16-C21 Aromatics			33.3	36.6		mg/Kg		110	40 - 140
C10-C12 Aromatics			20.0	14.4		mg/Kg		72	40 - 140
C12-C16 Aromatics			26.7	18.8		mg/Kg		70	40 - 140
C21-C36 Aromatic			53.3	34.5		mg/Kg		65	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*79*		*40 - 140*
2-Fluorobiphenyl	*103*		*40 - 140*
2-Bromonaphthalene	*86*		*40 - 140*
1-Chlorooctadecane	*74*		*40 - 140*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCSD 460-1024177/3-A
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024177

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics			20.0	9.60		mg/Kg		48	40 - 140	7	25
C9-C12 Aliphatics			26.7	11.2		mg/Kg		42	40 - 140	4	25
C16-C21 Aliphatics			20.0	15.4		mg/Kg		77	40 - 140	11	25
C21-C40 Aliphatics			66.7	49.0		mg/Kg		74	40 - 140	12	25
C16-C21 Aromatics			33.3	29.1		mg/Kg		87	40 - 140	23	25
C10-C12 Aromatics			20.0	15.2		mg/Kg		76	40 - 140	6	25
C12-C16 Aromatics			26.7	20.2		mg/Kg		76	40 - 140	7	25
C21-C36 Aromatic			53.3	38.2		mg/Kg		72	40 - 140	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*88*		*40 - 140*
2-Fluorobiphenyl	*96*		*40 - 140*
2-Bromonaphthalene	*85*		*40 - 140*
1-Chlorooctadecane	*74*		*40 - 140*

Lab Sample ID: 460-319165-B-15-F MS
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024177

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	2.0	U F1	20.4	6.60	F1	mg/Kg	☼	32	40 - 140
C9-C12 Aliphatics	3.1	U F1	27.2	7.84	F1	mg/Kg	☼	29	40 - 140
C16-C21 Aliphatics	2.0	U	20.4	9.63		mg/Kg	☼	47	40 - 140
C21-C40 Aliphatics	7.1	U	68.0	29.4		mg/Kg	☼	43	40 - 140
C16-C21 Aromatics	5.1	U	34.0	18.2		mg/Kg	☼	53	40 - 140
C10-C12 Aromatics	2.0	U F1	20.4	7.60	F1	mg/Kg	☼	37	40 - 140
C12-C16 Aromatics	3.1	U	27.2	11.7		mg/Kg	☼	43	40 - 140
C21-C36 Aromatic	8.2	U	54.4	23.6		mg/Kg	☼	43	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*53*		*40 - 140*
2-Fluorobiphenyl	*81*		*40 - 140*
2-Bromonaphthalene	*75*		*40 - 140*
1-Chlorooctadecane	*43*		*40 - 140*

Lab Sample ID: 460-319165-C-15-J MSD
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024177

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.0	U F1	20.4	6.69	F1	mg/Kg	☼	33	40 - 140	1	25
C9-C12 Aliphatics	3.1	U F1	27.2	7.44	F1	mg/Kg	☼	27	40 - 140	5	25
C16-C21 Aliphatics	2.0	U	20.4	10.2		mg/Kg	☼	50	40 - 140	6	25
C21-C40 Aliphatics	7.1	U	68.0	32.5		mg/Kg	☼	48	40 - 140	10	25
C16-C21 Aromatics	5.1	U	34.0	19.0		mg/Kg	☼	56	40 - 140	4	25
C10-C12 Aromatics	2.0	U F1	20.4	9.36		mg/Kg	☼	46	40 - 140	21	25
C12-C16 Aromatics	3.1	U	27.2	12.9		mg/Kg	☼	47	40 - 140	10	25
C21-C36 Aromatic	8.2	U	54.4	26.9		mg/Kg	☼	49	40 - 140	13	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	*54*		*40 - 140*
2-Fluorobiphenyl	*89*		*40 - 140*
2-Bromonaphthalene	*80*		*40 - 140*
1-Chlorooctadecane	*47*		*40 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1017929/1-A
Matrix: Solid
Analysis Batch: 1017994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Antimony	0.15	U	1.0	0.15	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Barium	0.15	U	2.0	0.15	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Calcium	40.7	U	100	40.7	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Chromium	0.91	U	2.0	0.91	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Copper	0.37	U	2.0	0.37	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Iron	20.2	U	60.0	20.2	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Lead	0.20	U	0.60	0.20	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Magnesium	10.2	U	100	10.2	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Manganese	0.40	U	4.0	0.40	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Nickel	0.47	U	2.0	0.47	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Potassium	16.2	U	100	16.2	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Selenium	0.13	U	1.3	0.13	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Silver	0.089	U	0.40	0.089	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Sodium	45.7	U	100	45.7	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Thallium	0.041	U	0.40	0.041	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		01/24/25 06:19	01/24/25 17:30	1
Zinc	3.1	U	8.0	3.1	mg/Kg		01/24/25 06:19	01/24/25 17:30	1

Lab Sample ID: LCSSRM 460-1017929/2-A ^3
Matrix: Solid
Analysis Batch: 1017994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017929

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5940	5249		mg/Kg		88.4	46.1 - 153.9
Antimony	121	82.87		mg/Kg		68.5	0.1 - 200.8
Arsenic	242	239.2		mg/Kg		98.8	81.8 - 118.6
Barium	295	276.5		mg/Kg		93.7	81.7 - 118.3
Beryllium	160	153.9		mg/Kg		96.2	82.5 - 117.5
Cadmium	84.3	83.10		mg/Kg		98.6	82.2 - 117.8
Calcium	5270	5018		mg/Kg		95.2	82.5 - 117.5

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-1017929/2-A ^3
Matrix: Solid
Analysis Batch: 1017994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017929

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	213	210.6		mg/Kg		98.9	81.2 - 119.2
Cobalt	137	139.0		mg/Kg		101.4	83.2 - 117.5
Copper	195	188.7		mg/Kg		96.7	83.1 - 116.9
Iron	6650	6165		mg/Kg		92.7	58.6 - 141.5
Lead	194	199.6		mg/Kg		102.9	82.0 - 118.6
Magnesium	1860	1714		mg/Kg		92.1	75.3 - 124.2
Manganese	264	253.2		mg/Kg		95.9	80.7 - 118.9
Nickel	298	298.0		mg/Kg		100	82.2 - 117.8
Potassium	2010	1905		mg/Kg		94.8	70.6 - 129.4
Selenium	272	267.2		mg/Kg		98.2	80.1 - 119.5
Silver	76.7	75.84		mg/Kg		98.9	79.5 - 120.5
Sodium	406	405.3		mg/Kg		99.8	74.9 - 124.9
Thallium	108	108.7		mg/Kg		100.7	80.0 - 119.4
Vanadium	169	160.4		mg/Kg		94.9	78.1 - 122.5
Zinc	236	231.9		mg/Kg		98.2	80.1 - 120.3

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1017994

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	9320		508	12060	4	mg/Kg	☼	538	75 - 125
Antimony	0.15	U F1	5.08	2.32	F1	mg/Kg	☼	46	75 - 125
Arsenic	1.7		10.2	10.42		mg/Kg	☼	86	75 - 125
Barium	4.5	F1	10.2	16.81		mg/Kg	☼	121	75 - 125
Beryllium	0.091	J	5.08	4.62		mg/Kg	☼	89	75 - 125
Cadmium	0.11	U	5.08	4.55		mg/Kg	☼	90	75 - 125
Calcium	114		508	562.0		mg/Kg	☼	88	75 - 125
Chromium	8.6		10.2	18.51		mg/Kg	☼	98	75 - 125
Cobalt	0.46	J	5.08	5.05		mg/Kg	☼	90	75 - 125
Copper	5.8		10.2	15.34		mg/Kg	☼	94	75 - 125
Iron	5380		508	6452	4	mg/Kg	☼	211	75 - 125
Lead	2.3		5.08	8.44		mg/Kg	☼	121	75 - 125
Magnesium	120		508	585.4		mg/Kg	☼	92	75 - 125
Manganese	4.5		50.8	46.53		mg/Kg	☼	83	75 - 125
Nickel	2.2		10.2	11.35		mg/Kg	☼	90	75 - 125
Potassium	181		508	626.5		mg/Kg	☼	88	75 - 125
Selenium	0.13	U	10.2	8.48		mg/Kg	☼	83	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1017994

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.090	U	5.08	4.56		mg/Kg	☼	90	75 - 125
Sodium	46.5	U	508	492.7		mg/Kg	☼	97	75 - 125
Thallium	0.042	U	4.07	3.92		mg/Kg	☼	96	75 - 125
Vanadium	12.2		10.2	21.96		mg/Kg	☼	96	75 - 125
Zinc	3.1	U	50.8	44.30		mg/Kg	☼	87	75 - 125

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1017994

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1017929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	9320		508	12250	4	mg/Kg	☼	576	75 - 125	2	20
Antimony	0.15	U F1	5.08	2.29	F1	mg/Kg	☼	45	75 - 125	1	20
Arsenic	1.7		10.2	9.98		mg/Kg	☼	82	75 - 125	4	20
Barium	4.5	F1	10.2	17.73	F1	mg/Kg	☼	130	75 - 125	5	20
Beryllium	0.091	J	5.08	4.72		mg/Kg	☼	91	75 - 125	2	20
Cadmium	0.11	U	5.08	4.29		mg/Kg	☼	84	75 - 125	6	20
Calcium	114		508	562.3		mg/Kg	☼	88	75 - 125	0	20
Chromium	8.6		10.2	18.66		mg/Kg	☼	99	75 - 125	1	20
Cobalt	0.46	J	5.08	4.96		mg/Kg	☼	88	75 - 125	2	20
Copper	5.8		10.2	16.04		mg/Kg	☼	101	75 - 125	4	20
Iron	5380		508	6586	4	mg/Kg	☼	237	75 - 125	2	20
Lead	2.3		5.08	8.17		mg/Kg	☼	116	75 - 125	3	20
Magnesium	120		508	601.6		mg/Kg	☼	95	75 - 125	3	20
Manganese	4.5		50.8	47.84		mg/Kg	☼	85	75 - 125	3	20
Nickel	2.2		10.2	11.70		mg/Kg	☼	94	75 - 125	3	20
Potassium	181		508	643.5		mg/Kg	☼	91	75 - 125	3	20
Selenium	0.13	U	10.2	8.59		mg/Kg	☼	84	75 - 125	1	20
Silver	0.090	U	5.08	4.45		mg/Kg	☼	88	75 - 125	2	20
Sodium	46.5	U	508	472.3		mg/Kg	☼	93	75 - 125	4	20
Thallium	0.042	U	4.07	3.84		mg/Kg	☼	94	75 - 125	2	20
Vanadium	12.2		10.2	22.86		mg/Kg	☼	105	75 - 125	4	20
Zinc	3.1	U	50.8	43.60		mg/Kg	☼	86	75 - 125	2	20

Lab Sample ID: 460-319121-E-4-E DU
Matrix: Solid
Analysis Batch: 1017994

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1017929

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	3580		3858		mg/Kg	☼	8	20
Antimony	0.18	U F1	0.18	U	mg/Kg	☼	NC	20
Arsenic	0.53	J	0.548	J	mg/Kg	☼	4	20
Barium	18.2		19.43		mg/Kg	☼	7	20
Beryllium	0.13	J	0.146	J	mg/Kg	☼	15	20
Cadmium	0.14	U	0.14	U	mg/Kg	☼	NC	20
Calcium	1240		1223		mg/Kg	☼	2	20
Chromium	6.4		7.06		mg/Kg	☼	10	20
Cobalt	2.9		3.56		mg/Kg	☼	20	20
Copper	8.1		9.00		mg/Kg	☼	11	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319121-E-4-E DU
Matrix: Solid
Analysis Batch: 1017994

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1017929

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	6610		7051		mg/Kg	☼	6	20
Lead	1.9		2.11		mg/Kg	☼	13	20
Magnesium	1270		1404		mg/Kg	☼	10	20
Manganese	162	F1	224.5	F3	mg/Kg	☼	32	20
Nickel	9.5		10.54		mg/Kg	☼	10	20
Potassium	1040		1165		mg/Kg	☼	12	20
Selenium	0.15	U	0.15	U	mg/Kg	☼	NC	20
Silver	0.11	U	0.11	U	mg/Kg	☼	NC	20
Sodium	804		784.4		mg/Kg	☼	2	20
Thallium	0.050	U	0.050	U	mg/Kg	☼	NC	20
Vanadium	7.9		8.83		mg/Kg	☼	11	20
Zinc	10.4		11.79		mg/Kg	☼	13	20

Lab Sample ID: MB 460-1017972/1-A
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		01/24/25 10:30	01/24/25 13:59	1
Antimony	0.76	U	2.0	0.76	ug/L		01/24/25 10:30	01/24/25 13:59	1
Arsenic	0.89	U	2.0	0.89	ug/L		01/24/25 10:30	01/24/25 13:59	1
Barium	0.91	U	4.0	0.91	ug/L		01/24/25 10:30	01/24/25 13:59	1
Beryllium	0.13	U	0.80	0.13	ug/L		01/24/25 10:30	01/24/25 13:59	1
Cadmium	0.39	U	2.0	0.39	ug/L		01/24/25 10:30	01/24/25 13:59	1
Calcium	53.6	U	500	53.6	ug/L		01/24/25 10:30	01/24/25 13:59	1
Chromium	2.5	U	4.0	2.5	ug/L		01/24/25 10:30	01/24/25 13:59	1
Cobalt	0.71	U	4.0	0.71	ug/L		01/24/25 10:30	01/24/25 13:59	1
Copper	2.5	U	4.0	2.5	ug/L		01/24/25 10:30	01/24/25 13:59	1
Iron	58.2	U	120	58.2	ug/L		01/24/25 10:30	01/24/25 13:59	1
Lead	0.84	U	1.2	0.84	ug/L		01/24/25 10:30	01/24/25 13:59	1
Magnesium	46.9	U	200	46.9	ug/L		01/24/25 10:30	01/24/25 13:59	1
Manganese	1.5	U	8.0	1.5	ug/L		01/24/25 10:30	01/24/25 13:59	1
Nickel	0.91	U	4.0	0.91	ug/L		01/24/25 10:30	01/24/25 13:59	1
Potassium	112	U	200	112	ug/L		01/24/25 10:30	01/24/25 13:59	1
Selenium	0.59	U	2.5	0.59	ug/L		01/24/25 10:30	01/24/25 13:59	1
Silver	0.29	U	2.0	0.29	ug/L		01/24/25 10:30	01/24/25 13:59	1
Sodium	219	U	500	219	ug/L		01/24/25 10:30	01/24/25 13:59	1
Thallium	0.21	U	0.80	0.21	ug/L		01/24/25 10:30	01/24/25 13:59	1
Vanadium	0.68	U	4.0	0.68	ug/L		01/24/25 10:30	01/24/25 13:59	1
Zinc	6.5	U	16.0	6.5	ug/L		01/24/25 10:30	01/24/25 13:59	1

Lab Sample ID: LCS 460-1017972/2-A
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2720		ug/L		109	80 - 120
Antimony	25.0	24.26		ug/L		97	80 - 120
Arsenic	50.0	53.63		ug/L		107	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-1017972/2-A
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	50.0	53.47		ug/L		107	80 - 120
Beryllium	25.0	24.73		ug/L		99	80 - 120
Cadmium	25.0	24.86		ug/L		99	80 - 120
Calcium	2500	2672		ug/L		107	80 - 120
Chromium	50.0	53.37		ug/L		107	80 - 120
Cobalt	25.0	26.57		ug/L		106	80 - 120
Copper	50.0	53.67		ug/L		107	80 - 120
Iron	2500	2779		ug/L		111	80 - 120
Lead	25.0	25.71		ug/L		103	80 - 120
Magnesium	2500	2713		ug/L		109	80 - 120
Manganese	250	267.8		ug/L		107	80 - 120
Nickel	50.0	53.42		ug/L		107	80 - 120
Potassium	2500	2636		ug/L		105	80 - 120
Selenium	50.0	53.65		ug/L		107	80 - 120
Silver	25.0	25.17		ug/L		101	80 - 120
Sodium	2500	2755		ug/L		110	80 - 120
Thallium	20.0	20.87		ug/L		104	80 - 120
Vanadium	50.0	52.81		ug/L		106	80 - 120
Zinc	250	252.6		ug/L		101	80 - 120

Lab Sample ID: 460-319183-E-6-C MS
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	52.0		2500	2694		ug/L		106	75 - 125
Antimony	0.76	U	25.0	25.77		ug/L		103	75 - 125
Arsenic	0.89	U	50.0	51.96		ug/L		104	75 - 125
Barium	23.2		50.0	76.00		ug/L		106	75 - 125
Beryllium	0.13	U	25.0	26.24		ug/L		105	75 - 125
Cadmium	0.39	U	25.0	25.06		ug/L		100	75 - 125
Calcium	57800		2500	58960	4	ug/L		48	75 - 125
Chromium	2.9	J	50.0	53.72		ug/L		102	75 - 125
Cobalt	0.71	U	25.0	25.27		ug/L		101	75 - 125
Copper	2.5	U	50.0	52.00		ug/L		104	75 - 125
Iron	115	J	2500	2631		ug/L		101	75 - 125
Lead	0.84	U	25.0	26.27		ug/L		105	75 - 125
Magnesium	19500		2500	21860	4	ug/L		94	75 - 125
Manganese	81.8		250	337.5		ug/L		102	75 - 125
Nickel	1.4	J	50.0	50.41		ug/L		98	75 - 125
Potassium	3820		2500	6354		ug/L		101	75 - 125
Selenium	0.59	U	50.0	50.98		ug/L		102	75 - 125
Silver	0.29	U	25.0	24.33		ug/L		97	75 - 125
Thallium	0.21	U	20.0	20.36		ug/L		102	75 - 125
Vanadium	0.68	U	50.0	52.22		ug/L		104	75 - 125
Zinc	7.6	J	250	259.4		ug/L		101	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319183-E-6-B DU
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	52.0			49.66		ug/L				5	20
Antimony	0.76	U		0.76	U	ug/L				NC	20
Arsenic	0.89	U		0.89	U	ug/L				NC	20
Barium	23.2			23.19		ug/L				0.07	20
Beryllium	0.13	U		0.13	U	ug/L				NC	20
Cadmium	0.39	U		0.39	U	ug/L				NC	20
Calcium	57800			57640		ug/L				0.2	20
Chromium	2.9	J		2.95	J	ug/L				2	20
Cobalt	0.71	U		0.71	U	ug/L				NC	20
Copper	2.5	U		2.5	U	ug/L				NC	20
Iron	115	J		115.2	J	ug/L				0.07	20
Lead	0.84	U		0.84	U	ug/L				NC	20
Magnesium	19500			19320		ug/L				1	20
Manganese	81.8			81.60		ug/L				0.3	20
Nickel	1.4	J		1.45	J	ug/L				2	20
Potassium	3820			3833		ug/L				0.3	20
Selenium	0.59	U		0.59	U	ug/L				NC	20
Silver	0.29	U		0.29	U	ug/L				NC	20
Thallium	0.21	U		0.21	U	ug/L				NC	20
Vanadium	0.68	U		0.68	U	ug/L				NC	20
Zinc	7.6	J		8.59	J	ug/L				12	20

Lab Sample ID: MB 460-1024134/1-A
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Antimony	0.15	U	1.0	0.15	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Barium	0.15	U	2.0	0.15	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Calcium	40.7	U	100	40.7	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Chromium	0.91	U	2.0	0.91	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Copper	0.37	U	2.0	0.37	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Iron	20.2	U	60.0	20.2	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Lead	0.20	U	0.60	0.20	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Magnesium	10.2	U	100	10.2	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Manganese	0.40	U	4.0	0.40	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Nickel	0.47	U	2.0	0.47	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Potassium	16.2	U	100	16.2	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Selenium	0.13	U	1.3	0.13	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Silver	0.089	U	0.40	0.089	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Sodium	45.7	U	100	45.7	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Thallium	0.041	U	0.40	0.041	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Zinc	3.1	U	8.0	3.1	mg/Kg		03/05/25 07:28	03/05/25 17:22	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCSSRM 460-1024134/2-A ^3
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6840	6903		mg/Kg		100.9	53.2 - 146.2
Antimony	131	102.4		mg/Kg		78.1	4.5 - 195.4
Arsenic	192	221.2		mg/Kg		115.2	81.3 - 118.8
Barium	219	253.0		mg/Kg		115.5	81.7 - 118.3
Beryllium	146	144.5		mg/Kg		99.0	82.2 - 117.8
Cadmium	114	127.5		mg/Kg		111.9	81.7 - 118.4
Calcium	4080	4458		mg/Kg		109.3	82.4 - 117.6
Chromium	153	168.2		mg/Kg		110.0	81.0 - 119.0
Cobalt	231	266.6		mg/Kg		115.4	83.1 - 117.3
Copper	91.2	102.4		mg/Kg		112.3	83.1 - 117.3
Iron	7020	7534		mg/Kg		107.3	60.7 - 139.2
Lead	141	150.6		mg/Kg		106.8	81.6 - 118.4
Magnesium	1900	1976		mg/Kg		104.0	76.3 - 123.7
Manganese	401	440.7		mg/Kg		109.9	80.8 - 119.0
Nickel	143	164.2		mg/Kg		114.8	81.8 - 118.9
Potassium	1760	1866		mg/Kg		106.0	72.2 - 127.8
Selenium	94.7	111.8		mg/Kg		118.1	78.5 - 121.4
Silver	77.0	85.33		mg/Kg		110.8	79.4 - 120.6
Sodium	661	714.7		mg/Kg		108.1	73.7 - 126.2
Thallium	183	206.1		mg/Kg		112.6	80.3 - 119.7
Vanadium	159	172.6		mg/Kg		108.6	78.6 - 122.0
Zinc	292	336.3		mg/Kg		115.2	79.8 - 120.2

Lab Sample ID: 460-319165-B-15-D MS
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	699	F1	511	1411	F1	mg/Kg	☼	139	75 - 125
Antimony	0.16	J F1	5.11	3.43	F1	mg/Kg	☼	64	75 - 125
Arsenic	0.51	J	10.2	8.86		mg/Kg	☼	82	75 - 125
Barium	26.1	F1	10.2	12.75	F1	mg/Kg	☼	-131	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319165-B-15-D MS
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.058	U	5.11	3.85		mg/Kg	☼	75	75 - 125
Cadmium	0.12	U	5.11	4.17		mg/Kg	☼	82	75 - 125
Calcium	126		511	516.4		mg/Kg	☼	76	75 - 125
Chromium	1.7	J	10.2	10.15		mg/Kg	☼	83	75 - 125
Cobalt	0.15	U	5.11	4.52		mg/Kg	☼	88	75 - 125
Copper	2.6		10.2	11.46		mg/Kg	☼	86	75 - 125
Iron	651		511	1058		mg/Kg	☼	80	75 - 125
Lead	14.3	F1	5.11	18.06	F1	mg/Kg	☼	73	75 - 125
Magnesium	46.1	J	511	455.4		mg/Kg	☼	80	75 - 125
Manganese	3.3	J	51.1	45.97		mg/Kg	☼	84	75 - 125
Nickel	0.66	J	10.2	9.65		mg/Kg	☼	88	75 - 125
Potassium	65.0	J	511	484.6		mg/Kg	☼	82	75 - 125
Selenium	0.14	J	10.2	8.39		mg/Kg	☼	81	75 - 125
Silver	0.091	U	5.11	3.93		mg/Kg	☼	77	75 - 125
Sodium	46.7	U	511	437.8		mg/Kg	☼	86	75 - 125
Thallium	0.042	U	4.09	3.33		mg/Kg	☼	81	75 - 125
Vanadium	3.2		10.2	11.72		mg/Kg	☼	84	75 - 125
Zinc	4.7	J	51.1	47.45		mg/Kg	☼	84	75 - 125

Lab Sample ID: 460-319165-B-15-E MSD
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	699	F1	511	1455	F1	mg/Kg	☼	148	75 - 125	3	20
Antimony	0.16	J F1	5.11	3.55	F1	mg/Kg	☼	66	75 - 125	3	20
Arsenic	0.51	J	10.2	9.03		mg/Kg	☼	83	75 - 125	2	20
Barium	26.1	F1	10.2	13.97	F1	mg/Kg	☼	-119	75 - 125	9	20
Beryllium	0.058	U	5.11	3.97		mg/Kg	☼	78	75 - 125	3	20
Cadmium	0.12	U	5.11	4.33		mg/Kg	☼	85	75 - 125	4	20
Calcium	126		511	527.7		mg/Kg	☼	79	75 - 125	2	20
Chromium	1.7	J	10.2	10.52		mg/Kg	☼	86	75 - 125	4	20
Cobalt	0.15	U	5.11	4.68		mg/Kg	☼	92	75 - 125	3	20
Copper	2.6		10.2	11.82		mg/Kg	☼	90	75 - 125	3	20
Iron	651		511	1116		mg/Kg	☼	91	75 - 125	5	20
Lead	14.3	F1	5.11	20.87	F1	mg/Kg	☼	128	75 - 125	14	20
Magnesium	46.1	J	511	470.5		mg/Kg	☼	83	75 - 125	3	20
Manganese	3.3	J	51.1	47.54		mg/Kg	☼	87	75 - 125	3	20
Nickel	0.66	J	10.2	9.97		mg/Kg	☼	91	75 - 125	3	20
Potassium	65.0	J	511	487.0		mg/Kg	☼	83	75 - 125	1	20
Selenium	0.14	J	10.2	8.34		mg/Kg	☼	80	75 - 125	1	20
Silver	0.091	U	5.11	4.02		mg/Kg	☼	79	75 - 125	2	20
Sodium	46.7	U	511	449.6		mg/Kg	☼	88	75 - 125	3	20
Thallium	0.042	U	4.09	3.41		mg/Kg	☼	83	75 - 125	3	20
Vanadium	3.2		10.2	12.49		mg/Kg	☼	91	75 - 125	6	20
Zinc	4.7	J	51.1	49.04		mg/Kg	☼	87	75 - 125	3	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319165-B-15-C DU
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	699	F1	592.0		mg/Kg	☼	17	20
Antimony	0.16	J F1	0.15	U	mg/Kg	☼	NC	20
Arsenic	0.51	J	0.460	J	mg/Kg	☼	11	20
Barium	26.1	F1	3.86	F3	mg/Kg	☼	148	20
Beryllium	0.058	U	0.058	U	mg/Kg	☼	NC	20
Cadmium	0.12	U	0.12	U	mg/Kg	☼	NC	20
Calcium	126		101.8	J F5	mg/Kg	☼	21	20
Chromium	1.7	J	1.48	J	mg/Kg	☼	14	20
Cobalt	0.15	U	0.15	U	mg/Kg	☼	NC	20
Copper	2.6		2.40		mg/Kg	☼	10	20
Iron	651		592.6		mg/Kg	☼	9	20
Lead	14.3	F1	12.42		mg/Kg	☼	14	20
Magnesium	46.1	J	38.53	J	mg/Kg	☼	18	20
Manganese	3.3	J	3.01	J	mg/Kg	☼	8	20
Nickel	0.66	J	0.590	J	mg/Kg	☼	11	20
Potassium	65.0	J	47.83	J F5	mg/Kg	☼	30	20
Selenium	0.14	J	0.157	J	mg/Kg	☼	10	20
Silver	0.091	U	0.091	U	mg/Kg	☼	NC	20
Sodium	46.7	U	46.7	U	mg/Kg	☼	NC	20
Thallium	0.042	U	0.042	U	mg/Kg	☼	NC	20
Vanadium	3.2		2.89		mg/Kg	☼	10	20
Zinc	4.7	J	4.15	J	mg/Kg	☼	12	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-1017796/1-A
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 14:21	1

Lab Sample ID: LCS 460-1017796/2-A
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.999		ug/L		100	80 - 120

Lab Sample ID: 460-319158-F-2-C MS
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.091	U	1.00	1.05		ug/L		105	75 - 125

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 460-319158-F-2-D MSD
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.091	U	1.00	1.03		ug/L		103	75 - 125	2	20

Lab Sample ID: 460-319158-F-2-B DU
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.091	U	0.091	U	ug/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-1017990/1-A
Matrix: Solid
Analysis Batch: 1018022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		01/24/25 12:15	01/24/25 15:52	1

Lab Sample ID: LCSSRM 460-1017990/2-A ^40
Matrix: Solid
Analysis Batch: 1018022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017990

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	22.8	17.94		mg/Kg		78.7	70.6 - 129.4

Lab Sample ID: 460-319121-E-4-J MS
Matrix: Solid
Analysis Batch: 1018022

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.012	J	0.101	0.125		mg/Kg	☼	112	80 - 120

Lab Sample ID: 460-319121-E-4-K MSD
Matrix: Solid
Analysis Batch: 1018022

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.012	J	0.101	0.121		mg/Kg	☼	108	80 - 120	4	20

Lab Sample ID: 460-319121-E-4-I DU
Matrix: Solid
Analysis Batch: 1018022

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1017990

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.012	J	0.0197	J F5	mg/Kg	☼	49	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-1018160/10-A
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		01/27/25 00:52	01/27/25 04:18	1

Lab Sample ID: LCSSRM 460-1018160/11-A
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018160

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			22.8	24.50		mg/Kg		107.5	70.6 - 129.4		

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.019		0.0820	0.0988		mg/Kg	☼	97	80 - 120		

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.019		0.0820	0.104		mg/Kg	☼	104	80 - 120	5	20

Lab Sample ID: 460-319135-15 DU
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018160

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.019		0.0211		mg/Kg	☼	11	20

Lab Sample ID: MB 460-1024098/1-A
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		03/05/25 01:20	03/05/25 06:26	1

Lab Sample ID: LCSSRM 460-1024098/2-A ^40
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024098

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			14.1	13.47		mg/Kg		95.5	69.6 - 130.5		

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-319165-B-15-A MS
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.017		0.0774	0.0961		mg/Kg	☼	102	80 - 120

Lab Sample ID: 460-319165-C-15-I MSD
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.017		0.0774	0.0994		mg/Kg	☼	107	80 - 120	3	20

Lab Sample ID: 460-319165-C-15-H DU
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.017		0.0187		mg/Kg	☼	11	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-1018025/1-A
Matrix: Solid
Analysis Batch: 1018045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		01/24/25 17:49	01/24/25 21:26	1

Lab Sample ID: LCSSRM 460-1018025/2-A ^20
Matrix: Solid
Analysis Batch: 1018045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018025

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	172	78.72		mg/Kg		45.8	14.9 - 114.5

Lab Sample ID: 460-319135-15 MS
Matrix: Solid
Analysis Batch: 1018045

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.13	U	4.52	3.91		mg/Kg	☼	87	29 - 100

Lab Sample ID: 460-319135-15 MSD
Matrix: Solid
Analysis Batch: 1018045

Client Sample ID: IA-06-CS-8
Prep Type: Total/NA
Prep Batch: 1018025

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.13	U	4.36	4.05		mg/Kg	☼	93	29 - 100	4	40

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: MB 460-1018026/13-A
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0040	U	0.010	0.0040	mg/L		01/24/25 17:52	01/24/25 20:48	1

Lab Sample ID: LCS 460-1018026/14-A
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0922		mg/L		92	85 - 115

Lab Sample ID: 460-318827-I-1-B MS
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0040	U F1	0.200	0.174	F1	mg/L		87	90 - 110

Lab Sample ID: 460-318827-I-1-C MSD
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0040	U F1	0.200	0.174	F1	mg/L		87	90 - 110	0	35

Lab Sample ID: MB 460-1024429/1-A
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		03/06/25 10:06	03/06/25 13:12	1

Lab Sample ID: LCSSRM 460-1024429/2-A ^20
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	172	106.1		mg/Kg		61.7	14.9 - 114.5

Lab Sample ID: 460-319165-C-15-P MS
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.12	U	4.54	4.27		mg/Kg	☼	94	29 - 100

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 460-319165-C-15-Q MSD
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.12	U	4.54	4.27		mg/Kg	☼	94	29 - 100	0	40

Lab Sample ID: 460-321201-E-31-F MS
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.13	U	4.93	3.67		mg/Kg	☼	74	29 - 100

Lab Sample ID: 460-321201-E-31-G MSD
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.13	U	4.93	3.67		mg/Kg	☼	74	29 - 100	0	40

Lab Sample ID: MRL 460-1024444/12-A
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024444

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0112		mg/L		112	50 - 150

Method: Moisture - Percent Moisture

Lab Sample ID: 460-319127-A-4 DU
Matrix: Solid
Analysis Batch: 1017653

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	2.9		8.8	F3	%		102	20
Percent Solids	97.1		91.2		%		6	20

Lab Sample ID: 460-319136-D-1 DU
Matrix: Solid
Analysis Batch: 1017653

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.0		11.2	F3	%		23	20
Percent Solids	86.0		88.8		%		3	20

Lab Sample ID: 460-319164-A-1 DU
Matrix: Solid
Analysis Batch: 1017653

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	25.5		24.4		%		5	20
Percent Solids	74.5		75.6		%		2	20

GC/MS VOA

Prep Batch: 1017631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	5035	
460-319135-2	IA-03-CS-8	Total/NA	Solid	5035	
460-319135-3	IA-02-TS	Total/NA	Solid	5035	
460-319135-4	IA-02-CS	Total/NA	Solid	5035	
460-319135-5	IA-05-TS	Total/NA	Solid	5035	
460-319135-6	IA-05-CS-4	Total/NA	Solid	5035	
460-319135-7	IA-05-CS-8	Total/NA	Solid	5035	
460-319135-9	IA-07-TS	Total/NA	Solid	5035	
460-319135-10	IA-07-CS-4	Total/NA	Solid	5035	
460-319135-11	IA-07-CS-8	Total/NA	Solid	5035	
460-319135-12	IA-06-TS	Total/NA	Solid	5035	
460-319135-13	DUP-01	Total/NA	Solid	5035	
460-319135-14	IA-06-CS-4	Total/NA	Solid	5035	
460-319135-15	IA-06-CS-8	Total/NA	Solid	5035	
LB3 460-1017631/1-A	Method Blank	Total/NA	Solid	5035	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	5035	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	5035	

Analysis Batch: 1017719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	8260D	
460-319135-16	Trip Blank	Total/NA	Water	8260D	
MB 460-1017719/8	Method Blank	Total/NA	Water	8260D	
LCS 460-1017719/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1017719/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 1018066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-1017631/1-A	Method Blank	Total/NA	Solid	8260D	1017631
MB 460-1018066/6	Method Blank	Total/NA	Solid	8260D	
LCS 460-1018066/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1018066/3	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1018176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	8260D	1017631
460-319135-4	IA-02-CS	Total/NA	Solid	8260D	1017631
460-319135-5	IA-05-TS	Total/NA	Solid	8260D	1017631
460-319135-6	IA-05-CS-4	Total/NA	Solid	8260D	1017631
460-319135-7	IA-05-CS-8	Total/NA	Solid	8260D	1017631
460-319135-12	IA-06-TS	Total/NA	Solid	8260D	1017631
460-319135-13	DUP-01	Total/NA	Solid	8260D	1017631
460-319135-14	IA-06-CS-4	Total/NA	Solid	8260D	1017631
460-319135-15	IA-06-CS-8	Total/NA	Solid	8260D	1017631
MB 460-1018176/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1018176/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1018176/4	Lab Control Sample Dup	Total/NA	Solid	8260D	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	8260D	1017631
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	8260D	1017631

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Analysis Batch: 1024023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	8260D	1017631
460-319135-2	IA-03-CS-8	Total/NA	Solid	8260D	1017631
460-319135-9	IA-07-TS	Total/NA	Solid	8260D	1017631
460-319135-10	IA-07-CS-4	Total/NA	Solid	8260D	1017631
460-319135-11	IA-07-CS-8	Total/NA	Solid	8260D	1017631
MB 460-1024023/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1024023/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1024023/3	Lab Control Sample Dup	Total/NA	Solid	8260D	

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Prep Batch: 1017758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	3546	
460-319135-4	IA-02-CS	Total/NA	Solid	3546	
460-319135-5	IA-05-TS	Total/NA	Solid	3546	
460-319135-6	IA-05-CS-4	Total/NA	Solid	3546	
460-319135-7	IA-05-CS-8	Total/NA	Solid	3546	
460-319135-12	IA-06-TS	Total/NA	Solid	3546	
460-319135-13	DUP-01	Total/NA	Solid	3546	
460-319135-14	IA-06-CS-4	Total/NA	Solid	3546	
460-319135-15	IA-06-CS-8	Total/NA	Solid	3546	
MB 460-1017758/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1017758/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1017758/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	3546	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	3546	

Prep Batch: 1017771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	3510C	
MB 460-1017771/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017771/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017771/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-S-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
460-319158-T-2-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 1017845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	8270E	1017758
460-319135-4	IA-02-CS	Total/NA	Solid	8270E	1017758
460-319135-5	IA-05-TS	Total/NA	Solid	8270E	1017758
460-319135-6	IA-05-CS-4	Total/NA	Solid	8270E	1017758
460-319135-7	IA-05-CS-8	Total/NA	Solid	8270E	1017758
460-319135-12	IA-06-TS	Total/NA	Solid	8270E	1017758
460-319135-13	DUP-01	Total/NA	Solid	8270E	1017758
460-319135-14	IA-06-CS-4	Total/NA	Solid	8270E	1017758
460-319135-15	IA-06-CS-8	Total/NA	Solid	8270E	1017758
MB 460-1017758/1-A	Method Blank	Total/NA	Solid	8270E	1017758
LCS 460-1017758/2-A	Lab Control Sample	Total/NA	Solid	8270E	1017758
LCSD 460-1017758/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1017758

GC/MS Semi VOA (Continued)

Analysis Batch: 1017845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	8270E	1017758
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	8270E	1017758

Analysis Batch: 1017857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	8270E	1017771
MB 460-1017771/1-A	Method Blank	Total/NA	Water	8270E	1017771
LCS 460-1017771/2-A	Lab Control Sample	Total/NA	Water	8270E	1017771
LCSD 460-1017771/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1017771
460-319158-S-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	1017771
460-319158-T-2-A MS	Matrix Spike	Total/NA	Water	8270E	1017771

Prep Batch: 1023975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	3546	
460-319135-2	IA-03-CS-8	Total/NA	Solid	3546	
460-319135-9	IA-07-TS	Total/NA	Solid	3546	
460-319135-10	IA-07-CS-4	Total/NA	Solid	3546	
460-319135-11	IA-07-CS-8	Total/NA	Solid	3546	
MB 460-1023975/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1023975/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1023975/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319165-C-15-D MS	Matrix Spike	Total/NA	Solid	3546	
460-319165-C-15-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1023993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	8270E	1023975
460-319135-2	IA-03-CS-8	Total/NA	Solid	8270E	1023975
460-319135-9	IA-07-TS	Total/NA	Solid	8270E	1023975
460-319135-10	IA-07-CS-4	Total/NA	Solid	8270E	1023975
460-319135-11	IA-07-CS-8	Total/NA	Solid	8270E	1023975
MB 460-1023975/1-A	Method Blank	Total/NA	Solid	8270E	1023975
LCS 460-1023975/2-A	Lab Control Sample	Total/NA	Solid	8270E	1023975
LCSD 460-1023975/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1023975
460-319165-C-15-D MS	Matrix Spike	Total/NA	Solid	8270E	1023975
460-319165-C-15-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	1023975

GC Semi VOA

Prep Batch: 1017765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	3546	
460-319135-4	IA-02-CS	Total/NA	Solid	3546	
460-319135-5	IA-05-TS	Total/NA	Solid	3546	
460-319135-6	IA-05-CS-4	Total/NA	Solid	3546	
460-319135-7	IA-05-CS-8	Total/NA	Solid	3546	
460-319135-12	IA-06-TS	Total/NA	Solid	3546	
460-319135-13	DUP-01	Total/NA	Solid	3546	
460-319135-14	IA-06-CS-4	Total/NA	Solid	3546	
460-319135-15	IA-06-CS-8	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 1017765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1017765/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1017765/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1017765/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	3546	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	3546	

Prep Batch: 1017866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	3510C	
MB 460-1017866/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017866/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017866/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-H-2-A MS	Matrix Spike	Total/NA	Water	3510C	
460-319158-H-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Prep Batch: 1017868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	3510C	
MB 460-1017868/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017868/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017868/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-K-2-A MS	Matrix Spike	Total/NA	Water	3510C	
460-319158-K-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 1017886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	8081B	1017868
MB 460-1017868/1-A	Method Blank	Total/NA	Water	8081B	1017868
LCS 460-1017868/2-A	Lab Control Sample	Total/NA	Water	8081B	1017868
LCSD 460-1017868/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	1017868
460-319158-K-2-A MS	Matrix Spike	Total/NA	Water	8081B	1017868
460-319158-K-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8081B	1017868

Analysis Batch: 1017892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	8082A	1017866
MB 460-1017866/1-A	Method Blank	Total/NA	Water	8082A	1017866
LCS 460-1017866/2-A	Lab Control Sample	Total/NA	Water	8082A	1017866
LCSD 460-1017866/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	1017866
460-319158-H-2-A MS	Matrix Spike	Total/NA	Water	8082A	1017866
460-319158-H-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8082A	1017866

Analysis Batch: 1017944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	NJDEP EPH	1017765
460-319135-4	IA-02-CS	Total/NA	Solid	NJDEP EPH	1017765
460-319135-5	IA-05-TS	Total/NA	Solid	NJDEP EPH	1017765
460-319135-6	IA-05-CS-4	Total/NA	Solid	NJDEP EPH	1017765
460-319135-7	IA-05-CS-8	Total/NA	Solid	NJDEP EPH	1017765
460-319135-12	IA-06-TS	Total/NA	Solid	NJDEP EPH	1017765
460-319135-13	DUP-01	Total/NA	Solid	NJDEP EPH	1017765

GC Semi VOA (Continued)

Analysis Batch: 1017944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-14	IA-06-CS-4	Total/NA	Solid	NJDEP EPH	1017765
460-319135-15	IA-06-CS-8	Total/NA	Solid	NJDEP EPH	1017765
MB 460-1017765/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1017765
LCS 460-1017765/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1017765
LCSD 460-1017765/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1017765
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	NJDEP EPH	1017765
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	NJDEP EPH	1017765

Analysis Batch: 1017945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	NJDEP EPH	1017765
460-319135-4	IA-02-CS	Total/NA	Solid	NJDEP EPH	1017765
460-319135-5	IA-05-TS	Total/NA	Solid	NJDEP EPH	1017765
460-319135-6	IA-05-CS-4	Total/NA	Solid	NJDEP EPH	1017765
460-319135-7	IA-05-CS-8	Total/NA	Solid	NJDEP EPH	1017765
460-319135-12	IA-06-TS	Total/NA	Solid	NJDEP EPH	1017765
460-319135-13	DUP-01	Total/NA	Solid	NJDEP EPH	1017765
460-319135-14	IA-06-CS-4	Total/NA	Solid	NJDEP EPH	1017765
460-319135-15	IA-06-CS-8	Total/NA	Solid	NJDEP EPH	1017765
MB 460-1017765/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1017765
LCS 460-1017765/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1017765
LCSD 460-1017765/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1017765
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	NJDEP EPH	1017765
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	NJDEP EPH	1017765

Analysis Batch: 1018007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	NJ DEP EPH	
460-319135-4	IA-02-CS	Total/NA	Solid	NJ DEP EPH	
460-319135-5	IA-05-TS	Total/NA	Solid	NJ DEP EPH	
460-319135-6	IA-05-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319135-7	IA-05-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319135-12	IA-06-TS	Total/NA	Solid	NJ DEP EPH	
460-319135-13	DUP-01	Total/NA	Solid	NJ DEP EPH	
460-319135-14	IA-06-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319135-15	IA-06-CS-8	Total/NA	Solid	NJ DEP EPH	

Prep Batch: 1018029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	3510C	
MB 460-1018029/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018029/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018029/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1018053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	NJDEP EPH	1018029
MB 460-1018029/1-A	Method Blank	Total/NA	Water	NJDEP EPH	1018029
LCS 460-1018029/2-A	Lab Control Sample	Total/NA	Water	NJDEP EPH	1018029
LCSD 460-1018029/3-A	Lab Control Sample Dup	Total/NA	Water	NJDEP EPH	1018029

GC Semi VOA

Prep Batch: 1018104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	3546	
460-319135-4	IA-02-CS	Total/NA	Solid	3546	
460-319135-5	IA-05-TS	Total/NA	Solid	3546	
460-319135-6	IA-05-CS-4	Total/NA	Solid	3546	
460-319135-7	IA-05-CS-8	Total/NA	Solid	3546	
460-319135-12	IA-06-TS	Total/NA	Solid	3546	
460-319135-13	DUP-01	Total/NA	Solid	3546	
460-319135-14	IA-06-CS-4	Total/NA	Solid	3546	
460-319135-15	IA-06-CS-8	Total/NA	Solid	3546	
MB 460-1018104/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018104/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018104/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	3546	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	3546	

Prep Batch: 1018105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	3546	
460-319135-4	IA-02-CS	Total/NA	Solid	3546	
460-319135-5	IA-05-TS	Total/NA	Solid	3546	
460-319135-6	IA-05-CS-4	Total/NA	Solid	3546	
460-319135-7	IA-05-CS-8	Total/NA	Solid	3546	
460-319135-12	IA-06-TS	Total/NA	Solid	3546	
460-319135-13	DUP-01	Total/NA	Solid	3546	
460-319135-14	IA-06-CS-4	Total/NA	Solid	3546	
460-319135-15	IA-06-CS-8	Total/NA	Solid	3546	
MB 460-1018105/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018105/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018105/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	3546	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	3546	

Analysis Batch: 1018163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	8081B	1018105
460-319135-4	IA-02-CS	Total/NA	Solid	8081B	1018105
460-319135-5	IA-05-TS	Total/NA	Solid	8081B	1018105
460-319135-6	IA-05-CS-4	Total/NA	Solid	8081B	1018105
460-319135-7	IA-05-CS-8	Total/NA	Solid	8081B	1018105
460-319135-12	IA-06-TS	Total/NA	Solid	8081B	1018105
460-319135-13	DUP-01	Total/NA	Solid	8081B	1018105
460-319135-14	IA-06-CS-4	Total/NA	Solid	8081B	1018105
460-319135-15	IA-06-CS-8	Total/NA	Solid	8081B	1018105
MB 460-1018105/1-A	Method Blank	Total/NA	Solid	8081B	1018105
LCS 460-1018105/2-A	Lab Control Sample	Total/NA	Solid	8081B	1018105
LCSD 460-1018105/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1018105
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	8081B	1018105
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	8081B	1018105

GC Semi VOA

Analysis Batch: 1018184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	8082A	1018104
460-319135-4	IA-02-CS	Total/NA	Solid	8082A	1018104
460-319135-5	IA-05-TS	Total/NA	Solid	8082A	1018104
460-319135-6	IA-05-CS-4	Total/NA	Solid	8082A	1018104
460-319135-7	IA-05-CS-8	Total/NA	Solid	8082A	1018104
460-319135-12	IA-06-TS	Total/NA	Solid	8082A	1018104
460-319135-13	DUP-01	Total/NA	Solid	8082A	1018104
460-319135-14	IA-06-CS-4	Total/NA	Solid	8082A	1018104
460-319135-15	IA-06-CS-8	Total/NA	Solid	8082A	1018104
MB 460-1018104/1-A	Method Blank	Total/NA	Solid	8082A	1018104
LCS 460-1018104/2-A	Lab Control Sample	Total/NA	Solid	8082A	1018104
LCSD 460-1018104/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1018104
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	8082A	1018104
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	8082A	1018104

Analysis Batch: 1024140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319135-2	IA-03-CS-8	Total/NA	Solid	NJDEP EPH	1024177
460-319135-9	IA-07-TS	Total/NA	Solid	NJDEP EPH	1024177
460-319135-10	IA-07-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319135-11	IA-07-CS-8	Total/NA	Solid	NJDEP EPH	1024177
MB 460-1024177/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024177
LCS 460-1024177/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024177
LCSD 460-1024177/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024177
460-319165-B-15-F MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1024177
460-319165-C-15-J MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1024177

Analysis Batch: 1024141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319135-2	IA-03-CS-8	Total/NA	Solid	NJDEP EPH	1024177
460-319135-9	IA-07-TS	Total/NA	Solid	NJDEP EPH	1024177
460-319135-10	IA-07-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319135-11	IA-07-CS-8	Total/NA	Solid	NJDEP EPH	1024177
MB 460-1024177/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024177
LCS 460-1024177/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024177
LCSD 460-1024177/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024177
460-319165-B-15-F MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1024177
460-319165-C-15-J MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1024177

Prep Batch: 1024177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	3546	
460-319135-2	IA-03-CS-8	Total/NA	Solid	3546	
460-319135-9	IA-07-TS	Total/NA	Solid	3546	
460-319135-10	IA-07-CS-4	Total/NA	Solid	3546	
460-319135-11	IA-07-CS-8	Total/NA	Solid	3546	
MB 460-1024177/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024177/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024177/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 1024177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-B-15-F MS	Matrix Spike	Total/NA	Solid	3546	
460-319165-C-15-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 1024180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	3546	
460-319135-2	IA-03-CS-8	Total/NA	Solid	3546	
460-319135-9	IA-07-TS	Total/NA	Solid	3546	
460-319135-10	IA-07-CS-4	Total/NA	Solid	3546	
460-319135-11	IA-07-CS-8	Total/NA	Solid	3546	
MB 460-1024180/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024180/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024180/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319165-B-15-G MS	Matrix Spike	Total/NA	Solid	3546	
460-319165-C-15-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 1024184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	3546	
460-319135-2	IA-03-CS-8	Total/NA	Solid	3546	
460-319135-9	IA-07-TS	Total/NA	Solid	3546	
460-319135-10	IA-07-CS-4	Total/NA	Solid	3546	
460-319135-11	IA-07-CS-8	Total/NA	Solid	3546	
MB 460-1024184/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024184/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024184/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319165-B-15-H MS	Matrix Spike	Total/NA	Solid	3546	
460-319165-C-15-N MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1024260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	8082A	1024184
460-319135-2	IA-03-CS-8	Total/NA	Solid	8082A	1024184
460-319135-9	IA-07-TS	Total/NA	Solid	8082A	1024184
460-319135-10	IA-07-CS-4	Total/NA	Solid	8082A	1024184
460-319135-11	IA-07-CS-8	Total/NA	Solid	8082A	1024184
MB 460-1024184/1-A	Method Blank	Total/NA	Solid	8082A	1024184
460-319165-B-15-H MS	Matrix Spike	Total/NA	Solid	8082A	1024184
460-319165-C-15-N MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	1024184

Analysis Batch: 1024271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	8081B	1024180
460-319135-2	IA-03-CS-8	Total/NA	Solid	8081B	1024180
460-319135-9	IA-07-TS	Total/NA	Solid	8081B	1024180
460-319135-10	IA-07-CS-4	Total/NA	Solid	8081B	1024180
460-319135-11	IA-07-CS-8	Total/NA	Solid	8081B	1024180
MB 460-1024180/1-A	Method Blank	Total/NA	Solid	8081B	1024180
460-319165-B-15-G MS	Matrix Spike	Total/NA	Solid	8081B	1024180
460-319165-C-15-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	1024180

GC Semi VOA

Analysis Batch: 1024330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-1024180/2-A	Lab Control Sample	Total/NA	Solid	8081B	1024180
LCSD 460-1024180/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1024180

Analysis Batch: 1024358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-1024184/2-A	Lab Control Sample	Total/NA	Solid	8082A	1024184
LCSD 460-1024184/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1024184

Analysis Batch: 1024448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319135-2	IA-03-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319135-9	IA-07-TS	Total/NA	Solid	NJ DEP EPH	
460-319135-10	IA-07-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319135-11	IA-07-CS-8	Total/NA	Solid	NJ DEP EPH	

Metals

Prep Batch: 1017796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	7470A	
MB 460-1017796/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1017796/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-319158-F-2-C MS	Matrix Spike	Total/NA	Water	7470A	
460-319158-F-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
460-319158-F-2-B DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 1017835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	7470A	1017796
MB 460-1017796/1-A	Method Blank	Total/NA	Water	7470A	1017796
LCS 460-1017796/2-A	Lab Control Sample	Total/NA	Water	7470A	1017796
460-319158-F-2-C MS	Matrix Spike	Total/NA	Water	7470A	1017796
460-319158-F-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	1017796
460-319158-F-2-B DU	Duplicate	Total/NA	Water	7470A	1017796

Prep Batch: 1017929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	3050B	
460-319135-4	IA-02-CS	Total/NA	Solid	3050B	
460-319135-5	IA-05-TS	Total/NA	Solid	3050B	
460-319135-6	IA-05-CS-4	Total/NA	Solid	3050B	
460-319135-7	IA-05-CS-8	Total/NA	Solid	3050B	
460-319135-12	IA-06-TS	Total/NA	Solid	3050B	
460-319135-13	DUP-01	Total/NA	Solid	3050B	
460-319135-14	IA-06-CS-4	Total/NA	Solid	3050B	
460-319135-15	IA-06-CS-8	Total/NA	Solid	3050B	
MB 460-1017929/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1017929/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	3050B	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 1017929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319121-E-4-E DU	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 1017972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	3010A	
MB 460-1017972/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-1017972/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-319183-E-6-C MS	Matrix Spike	Total/NA	Water	3010A	
460-319183-E-6-B DU	Duplicate	Total/NA	Water	3010A	

Prep Batch: 1017990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	7471B	
460-319135-4	IA-02-CS	Total/NA	Solid	7471B	
460-319135-5	IA-05-TS	Total/NA	Solid	7471B	
460-319135-6	IA-05-CS-4	Total/NA	Solid	7471B	
460-319135-7	IA-05-CS-8	Total/NA	Solid	7471B	
460-319135-12	IA-06-TS	Total/NA	Solid	7471B	
460-319135-13	DUP-01	Total/NA	Solid	7471B	
460-319135-14	IA-06-CS-4	Total/NA	Solid	7471B	
MB 460-1017990/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1017990/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319121-E-4-J MS	Matrix Spike	Total/NA	Solid	7471B	
460-319121-E-4-K MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-319121-E-4-I DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 1017994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	6020B	1017929
460-319135-4	IA-02-CS	Total/NA	Solid	6020B	1017929
460-319135-5	IA-05-TS	Total/NA	Solid	6020B	1017929
460-319135-6	IA-05-CS-4	Total/NA	Solid	6020B	1017929
460-319135-7	IA-05-CS-8	Total/NA	Solid	6020B	1017929
460-319135-12	IA-06-TS	Total/NA	Solid	6020B	1017929
460-319135-13	DUP-01	Total/NA	Solid	6020B	1017929
460-319135-14	IA-06-CS-4	Total/NA	Solid	6020B	1017929
460-319135-15	IA-06-CS-8	Total/NA	Solid	6020B	1017929
MB 460-1017929/1-A	Method Blank	Total/NA	Solid	6020B	1017929
LCSSRM 460-1017929/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1017929
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	6020B	1017929
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	6020B	1017929
460-319121-E-4-E DU	Duplicate	Total/NA	Solid	6020B	1017929

Analysis Batch: 1017999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	6020B	1017972
MB 460-1017972/1-A	Method Blank	Total/NA	Water	6020B	1017972
LCS 460-1017972/2-A	Lab Control Sample	Total/NA	Water	6020B	1017972
460-319183-E-6-C MS	Matrix Spike	Total/NA	Water	6020B	1017972
460-319183-E-6-B DU	Duplicate	Total/NA	Water	6020B	1017972

Metals

Analysis Batch: 1018022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	7471B	1017990
460-319135-4	IA-02-CS	Total/NA	Solid	7471B	1017990
460-319135-5	IA-05-TS	Total/NA	Solid	7471B	1017990
460-319135-6	IA-05-CS-4	Total/NA	Solid	7471B	1017990
460-319135-7	IA-05-CS-8	Total/NA	Solid	7471B	1017990
460-319135-12	IA-06-TS	Total/NA	Solid	7471B	1017990
460-319135-13	DUP-01	Total/NA	Solid	7471B	1017990
460-319135-14	IA-06-CS-4	Total/NA	Solid	7471B	1017990
MB 460-1017990/1-A	Method Blank	Total/NA	Solid	7471B	1017990
LCSSRM 460-1017990/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1017990
460-319121-E-4-J MS	Matrix Spike	Total/NA	Solid	7471B	1017990
460-319121-E-4-K MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	1017990
460-319121-E-4-I DU	Duplicate	Total/NA	Solid	7471B	1017990

Prep Batch: 1018160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-15	IA-06-CS-8	Total/NA	Solid	7471B	
MB 460-1018160/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1018160/11-A	Lab Control Sample	Total/NA	Solid	7471B	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	7471B	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	7471B	
460-319135-15 DU	IA-06-CS-8	Total/NA	Solid	7471B	

Analysis Batch: 1018211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-15	IA-06-CS-8	Total/NA	Solid	7471B	1018160
MB 460-1018160/10-A	Method Blank	Total/NA	Solid	7471B	1018160
LCSSRM 460-1018160/11-A	Lab Control Sample	Total/NA	Solid	7471B	1018160
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	7471B	1018160
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	7471B	1018160
460-319135-15 DU	IA-06-CS-8	Total/NA	Solid	7471B	1018160

Prep Batch: 1024098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	7471B	
460-319135-2	IA-03-CS-8	Total/NA	Solid	7471B	
460-319135-9	IA-07-TS	Total/NA	Solid	7471B	
460-319135-10	IA-07-CS-4	Total/NA	Solid	7471B	
460-319135-11	IA-07-CS-8	Total/NA	Solid	7471B	
MB 460-1024098/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1024098/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319165-B-15-A MS	Matrix Spike	Total/NA	Solid	7471B	
460-319165-C-15-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-319165-C-15-H DU	Duplicate	Total/NA	Solid	7471B	

Prep Batch: 1024134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	3050B	
460-319135-2	IA-03-CS-8	Total/NA	Solid	3050B	
460-319135-9	IA-07-TS	Total/NA	Solid	3050B	
460-319135-10	IA-07-CS-4	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 1024134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-11	IA-07-CS-8	Total/NA	Solid	3050B	
MB 460-1024134/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1024134/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319165-B-15-D MS	Matrix Spike	Total/NA	Solid	3050B	
460-319165-B-15-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-319165-B-15-C DU	Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 1024137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	7471B	1024098
460-319135-2	IA-03-CS-8	Total/NA	Solid	7471B	1024098
460-319135-9	IA-07-TS	Total/NA	Solid	7471B	1024098
460-319135-10	IA-07-CS-4	Total/NA	Solid	7471B	1024098
460-319135-11	IA-07-CS-8	Total/NA	Solid	7471B	1024098
MB 460-1024098/1-A	Method Blank	Total/NA	Solid	7471B	1024098
LCSSRM 460-1024098/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1024098
460-319165-B-15-A MS	Matrix Spike	Total/NA	Solid	7471B	1024098
460-319165-C-15-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	1024098
460-319165-C-15-H DU	Duplicate	Total/NA	Solid	7471B	1024098

Analysis Batch: 1024283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	6020B	1024134
460-319135-2	IA-03-CS-8	Total/NA	Solid	6020B	1024134
460-319135-9	IA-07-TS	Total/NA	Solid	6020B	1024134
460-319135-10	IA-07-CS-4	Total/NA	Solid	6020B	1024134
460-319135-11	IA-07-CS-8	Total/NA	Solid	6020B	1024134
MB 460-1024134/1-A	Method Blank	Total/NA	Solid	6020B	1024134
LCSSRM 460-1024134/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1024134
460-319165-B-15-D MS	Matrix Spike	Total/NA	Solid	6020B	1024134
460-319165-B-15-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6020B	1024134
460-319165-B-15-C DU	Duplicate	Total/NA	Solid	6020B	1024134

General Chemistry

Analysis Batch: 1017653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	Moisture	
460-319135-2	IA-03-CS-8	Total/NA	Solid	Moisture	
460-319135-3	IA-02-TS	Total/NA	Solid	Moisture	
460-319135-4	IA-02-CS	Total/NA	Solid	Moisture	
460-319135-5	IA-05-TS	Total/NA	Solid	Moisture	
460-319135-6	IA-05-CS-4	Total/NA	Solid	Moisture	
460-319135-7	IA-05-CS-8	Total/NA	Solid	Moisture	
460-319135-9	IA-07-TS	Total/NA	Solid	Moisture	
460-319135-10	IA-07-CS-4	Total/NA	Solid	Moisture	
460-319135-11	IA-07-CS-8	Total/NA	Solid	Moisture	
460-319135-12	IA-06-TS	Total/NA	Solid	Moisture	
460-319135-13	DUP-01	Total/NA	Solid	Moisture	
460-319135-14	IA-06-CS-4	Total/NA	Solid	Moisture	
460-319135-15	IA-06-CS-8	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 1017653 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319121-D-4 MSS	Matrix Spike	Total/NA	Solid	Moisture	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	Moisture	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	Moisture	
460-319127-A-4 DU	Duplicate	Total/NA	Solid	Moisture	
460-319136-D-1 DU	Duplicate	Total/NA	Solid	Moisture	
460-319164-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 1018025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	9012B	
460-319135-4	IA-02-CS	Total/NA	Solid	9012B	
460-319135-5	IA-05-TS	Total/NA	Solid	9012B	
460-319135-6	IA-05-CS-4	Total/NA	Solid	9012B	
460-319135-7	IA-05-CS-8	Total/NA	Solid	9012B	
460-319135-12	IA-06-TS	Total/NA	Solid	9012B	
460-319135-13	DUP-01	Total/NA	Solid	9012B	
460-319135-14	IA-06-CS-4	Total/NA	Solid	9012B	
460-319135-15	IA-06-CS-8	Total/NA	Solid	9012B	
MB 460-1018025/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1018025/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	9012B	
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	9012B	

Prep Batch: 1018026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-8	FB_20250121	Total/NA	Water	9012B	
MB 460-1018026/13-A	Method Blank	Total/NA	Water	9012B	
LCS 460-1018026/14-A	Lab Control Sample	Total/NA	Water	9012B	
460-318827-I-1-B MS	Matrix Spike	Total/NA	Water	9012B	
460-318827-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Analysis Batch: 1018045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-3	IA-02-TS	Total/NA	Solid	9012B	1018025
460-319135-4	IA-02-CS	Total/NA	Solid	9012B	1018025
460-319135-5	IA-05-TS	Total/NA	Solid	9012B	1018025
460-319135-6	IA-05-CS-4	Total/NA	Solid	9012B	1018025
460-319135-7	IA-05-CS-8	Total/NA	Solid	9012B	1018025
460-319135-8	FB_20250121	Total/NA	Water	9012B	1018026
460-319135-12	IA-06-TS	Total/NA	Solid	9012B	1018025
460-319135-13	DUP-01	Total/NA	Solid	9012B	1018025
460-319135-14	IA-06-CS-4	Total/NA	Solid	9012B	1018025
460-319135-15	IA-06-CS-8	Total/NA	Solid	9012B	1018025
MB 460-1018025/1-A	Method Blank	Total/NA	Solid	9012B	1018025
MB 460-1018026/13-A	Method Blank	Total/NA	Water	9012B	1018026
LCS 460-1018026/14-A	Lab Control Sample	Total/NA	Water	9012B	1018026
LCSSRM 460-1018025/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1018025
460-318827-I-1-B MS	Matrix Spike	Total/NA	Water	9012B	1018026
460-318827-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	1018026
460-319135-15 MS	IA-06-CS-8	Total/NA	Solid	9012B	1018025
460-319135-15 MSD	IA-06-CS-8	Total/NA	Solid	9012B	1018025

General Chemistry

Prep Batch: 1024429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	9012B	
460-319135-2	IA-03-CS-8	Total/NA	Solid	9012B	
460-319135-9	IA-07-TS	Total/NA	Solid	9012B	
460-319135-10	IA-07-CS-4	Total/NA	Solid	9012B	
460-319135-11	IA-07-CS-8	Total/NA	Solid	9012B	
MB 460-1024429/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1024429/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319165-C-15-P MS	Matrix Spike	Total/NA	Solid	9012B	
460-319165-C-15-Q MSD	Matrix Spike Duplicate	Total/NA	Solid	9012B	
460-321201-E-31-F MS	Matrix Spike	Total/NA	Solid	9012B	
460-321201-E-31-G MSD	Matrix Spike Duplicate	Total/NA	Solid	9012B	

Prep Batch: 1024444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 460-1024444/12-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 1024494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319135-1	IA-03-CS-4	Total/NA	Solid	9012B	1024429
460-319135-2	IA-03-CS-8	Total/NA	Solid	9012B	1024429
460-319135-9	IA-07-TS	Total/NA	Solid	9012B	1024429
460-319135-10	IA-07-CS-4	Total/NA	Solid	9012B	1024429
460-319135-11	IA-07-CS-8	Total/NA	Solid	9012B	1024429
MB 460-1024429/1-A	Method Blank	Total/NA	Solid	9012B	1024429
LCSSRM 460-1024429/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1024429
MRL 460-1024444/12-A	Lab Control Sample	Total/NA	Solid	9012B	1024444
460-319165-C-15-P MS	Matrix Spike	Total/NA	Solid	9012B	1024429
460-319165-C-15-Q MSD	Matrix Spike Duplicate	Total/NA	Solid	9012B	1024429
460-321201-E-31-F MS	Matrix Spike	Total/NA	Solid	9012B	1024429
460-321201-E-31-G MSD	Matrix Spike Duplicate	Total/NA	Solid	9012B	1024429

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-03-CS-4

Lab Sample ID: 460-319135-1

Date Collected: 01/21/25 09:15

Matrix: Solid

Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-03-CS-4

Lab Sample ID: 460-319135-1

Date Collected: 01/21/25 09:15

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:00
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 00:10
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 16:45
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 23:09
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 23:38
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/06/25 00:17
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/06/25 00:17
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 17:43
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:38
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:31

Client Sample ID: IA-03-CS-8

Lab Sample ID: 460-319135-2

Date Collected: 01/21/25 09:30

Matrix: Solid

Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-03-CS-8

Lab Sample ID: 460-319135-2

Date Collected: 01/21/25 09:30

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:01
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 00:33
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 16:06

Client Sample ID: IA-03-CS-8

Lab Sample ID: 460-319135-2

Date Collected: 01/21/25 09:30

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 23:22
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 23:55
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/06/25 00:32
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/06/25 00:32
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 17:45
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:40
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:39

Client Sample ID: IA-02-TS

Lab Sample ID: 460-319135-3

Date Collected: 01/21/25 10:30

Matrix: Solid

Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: IA-02-TS

Lab Sample ID: 460-319135-3

Date Collected: 01/21/25 10:30

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:01
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 10:30
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/23/25 21:05
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 04:40
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 07:38
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 13:53
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 13:53
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:11
Total/NA	Prep	7471B			1017990	RBS	EET EDI	01/24/25 12:15
Total/NA	Analysis	7471B		1	1018022	RBS	EET EDI	01/24/25 16:21

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-02-TS
Date Collected: 01/21/25 10:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-3
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:49
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:44

Client Sample ID: IA-02-CS
Date Collected: 01/21/25 10:55
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: IA-02-CS
Date Collected: 01/21/25 10:55
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-4
Matrix: Solid
Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:02
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 10:55
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/24/25 03:09
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 04:52
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 07:55
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 14:09
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 14:09
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:14
Total/NA	Prep	7471B			1017990	RBS	EET EDI	01/24/25 12:15
Total/NA	Analysis	7471B		1	1018022	RBS	EET EDI	01/24/25 16:26
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:49
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:45

Client Sample ID: IA-05-TS
Date Collected: 01/21/25 11:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: IA-05-TS

Lab Sample ID: 460-319135-5

Date Collected: 01/21/25 11:30

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:02
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 11:19
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/23/25 21:24
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 05:05
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 08:12
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 14:25
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 14:25
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:16
Total/NA	Prep	7471B			1017990	RBS	EET EDI	01/24/25 12:15
Total/NA	Analysis	7471B		1	1018022	RBS	EET EDI	01/24/25 16:28
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:49
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:46

Client Sample ID: IA-05-CS-4

Lab Sample ID: 460-319135-6

Date Collected: 01/21/25 11:40

Matrix: Solid

Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: IA-05-CS-4

Lab Sample ID: 460-319135-6

Date Collected: 01/21/25 11:40

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:03
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 11:45
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/24/25 02:50
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 05:17
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 08:28
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 14:40
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 14:40

Client Sample ID: IA-05-CS-4

Lab Sample ID: 460-319135-6
Date Collected: 01/21/25 11:40
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:19
Total/NA	Prep	7471B			1017990	RBS	EET EDI	01/24/25 12:15
Total/NA	Analysis	7471B		1	1018022	RBS	EET EDI	01/24/25 16:30
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:49
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:51

Client Sample ID: IA-05-CS-8

Lab Sample ID: 460-319135-7
Date Collected: 01/21/25 12:00
Matrix: Solid
Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: IA-05-CS-8

Lab Sample ID: 460-319135-7
Date Collected: 01/21/25 12:00
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:03
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 12:09
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/24/25 00:17
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 05:29
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 08:45
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 14:56
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 14:56
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:21
Total/NA	Prep	7471B			1017990	RBS	EET EDI	01/24/25 12:15
Total/NA	Analysis	7471B		1	1018022	RBS	EET EDI	01/24/25 16:32
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:51
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:51

Client Sample ID: FB_20250121

Lab Sample ID: 460-319135-8
Date Collected: 01/21/25 13:00
Matrix: Water
Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 08:58

Client Sample ID: FB_20250121

Lab Sample ID: 460-319135-8

Date Collected: 01/21/25 13:00

Matrix: Water

Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			1017771	ZEH	EET EDI	01/23/25 10:04
Total/NA	Analysis	8270E		1	1017857	MME	EET EDI	01/23/25 21:45
Total/NA	Prep	3510C			1017868	JMS	EET EDI	01/23/25 20:22
Total/NA	Analysis	8081B		1	1017886	FAM	EET EDI	01/24/25 06:38
Total/NA	Prep	3510C			1017866	JMS	EET EDI	01/23/25 20:09
Total/NA	Analysis	8082A		1	1017892	JHP	EET EDI	01/24/25 06:59
Total/NA	Prep	3510C			1018029	JMS	EET EDI	01/24/25 20:35
Total/NA	Analysis	NJDEP EPH		1	1018053	OXG	EET EDI	01/25/25 10:21
Total/NA	Prep	3010A			1017972	JKF	EET EDI	01/24/25 10:30
Total/NA	Analysis	6020B		1	1017999	MDC	EET EDI	01/24/25 14:04
Total/NA	Prep	7470A			1017796	RBS	EET EDI	01/23/25 11:38
Total/NA	Analysis	7470A		1	1017835	RBS	EET EDI	01/23/25 14:53
Total/NA	Prep	9012B			1018026	VBG	EET EDI	01/24/25 17:52
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:03

Client Sample ID: IA-07-TS

Lab Sample ID: 460-319135-9

Date Collected: 01/21/25 13:40

Matrix: Solid

Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-07-TS

Lab Sample ID: 460-319135-9

Date Collected: 01/21/25 13:40

Matrix: Solid

Date Received: 01/21/25 16:50

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:04
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 00:56
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 19:57
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 23:34
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/06/25 00:12
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/06/25 00:48
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/06/25 00:48
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 17:53
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:42

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-07-TS
Date Collected: 01/21/25 13:40
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-9
Matrix: Solid
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:43

Client Sample ID: IA-07-CS-4
Date Collected: 01/21/25 13:50
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-07-CS-4
Date Collected: 01/21/25 13:50
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-10
Matrix: Solid
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:04
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 01:18
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 18:40
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 23:46
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/06/25 00:28
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/06/25 01:04
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/06/25 01:04
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 17:56
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:47
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:44

Client Sample ID: IA-07-CS-8
Date Collected: 01/21/25 14:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-07-CS-8

Lab Sample ID: 460-319135-11
Date Collected: 01/21/25 14:00
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:05
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 01:41
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 18:59
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 23:59
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/06/25 00:45
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/06/25 01:19
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/06/25 01:19
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 17:59
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:49
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:45

Client Sample ID: IA-06-TS

Lab Sample ID: 460-319135-12
Date Collected: 01/21/25 14:30
Matrix: Solid
Date Received: 01/21/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: IA-06-TS

Lab Sample ID: 460-319135-12
Date Collected: 01/21/25 14:30
Matrix: Solid
Date Received: 01/21/25 16:50
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:05
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 12:34
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/23/25 21:43
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 05:42
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 09:02
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 15:34
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 15:34

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-06-TS

Date Collected: 01/21/25 14:30
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-12

Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:24
Total/NA	Prep	7471B			1017990	RBS	EET EDI	01/24/25 12:15
Total/NA	Analysis	7471B		1	1018022	RBS	EET EDI	01/24/25 16:33
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:51
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:52

Client Sample ID: DUP-01

Date Collected: 01/21/25 12:01
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: DUP-01

Date Collected: 01/21/25 12:01
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-13

Matrix: Solid
Percent Solids: 99.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:06
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 12:58
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/24/25 00:36
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 05:54
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 09:18
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 16:52
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 16:52
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:32
Total/NA	Prep	7471B			1017990	RBS	EET EDI	01/24/25 12:15
Total/NA	Analysis	7471B		1	1018022	RBS	EET EDI	01/24/25 16:35
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:51
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:53

Client Sample ID: IA-06-CS-4

Date Collected: 01/21/25 14:45
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-06-CS-4
Date Collected: 01/21/25 14:45
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: IA-06-CS-4
Date Collected: 01/21/25 14:45
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-14
Matrix: Solid
Percent Solids: 99.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:06
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 13:23
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/24/25 00:55
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 06:06
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 09:35
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 17:08
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 17:08
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:34
Total/NA	Prep	7471B			1017990	RBS	EET EDI	01/24/25 12:15
Total/NA	Analysis	7471B		1	1018022	RBS	EET EDI	01/24/25 16:37
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:51
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:54

Client Sample ID: IA-06-CS-8
Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018007	JHP	EET EDI	01/24/25 13:26
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 16:31

Client Sample ID: IA-06-CS-8
Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-15
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017631	EMM	EET EDI	01/22/25 14:07
Total/NA	Analysis	8260D		1	1018176	AAT	EET EDI	01/27/25 13:47
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/23/25 20:46
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 06:19

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Client Sample ID: IA-06-CS-8

Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-15

Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 09:52
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017944	JHP	EET EDI	01/24/25 10:41
Total/NA	Prep	3546			1017765	FHW	EET EDI	01/23/25 09:47
Total/NA	Analysis	NJDEP EPH		1	1017945	JHP	EET EDI	01/24/25 10:41
Total/NA	Prep	3050B			1017929	FBT	EET EDI	01/24/25 06:19
Total/NA	Analysis	6020B		1	1017994	JKF	EET EDI	01/24/25 18:37
Total/NA	Prep	7471B			1018160	TJS	EET EDI	01/27/25 00:52
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 04:21
Total/NA	Prep	9012B			1018025	VBG	EET EDI	01/24/25 17:49
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:27

Client Sample ID: Trip Blank

Date Collected: 01/21/25 15:00
Date Received: 01/21/25 16:50

Lab Sample ID: 460-319135-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 09:21

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-03-26
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	03-31-25
Pennsylvania	NELAP	68-00522	02-27-26
Rhode Island	State	LAO00376	12-23-25
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
NJ DEP EPH	New Jersey - Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
NJDEP EPH	New Jersey Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

NJDEP = New Jersey Department of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester Landfill

Job ID: 460-319135-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-319135-1	IA-03-CS-4	Solid	01/21/25 09:15	01/21/25 16:50
460-319135-2	IA-03-CS-8	Solid	01/21/25 09:30	01/21/25 16:50
460-319135-3	IA-02-TS	Solid	01/21/25 10:30	01/21/25 16:50
460-319135-4	IA-02-CS	Solid	01/21/25 10:55	01/21/25 16:50
460-319135-5	IA-05-TS	Solid	01/21/25 11:30	01/21/25 16:50
460-319135-6	IA-05-CS-4	Solid	01/21/25 11:40	01/21/25 16:50
460-319135-7	IA-05-CS-8	Solid	01/21/25 12:00	01/21/25 16:50
460-319135-8	FB_20250121	Water	01/21/25 13:00	01/21/25 16:50
460-319135-9	IA-07-TS	Solid	01/21/25 13:40	01/21/25 16:50
460-319135-10	IA-07-CS-4	Solid	01/21/25 13:50	01/21/25 16:50
460-319135-11	IA-07-CS-8	Solid	01/21/25 14:00	01/21/25 16:50
460-319135-12	IA-06-TS	Solid	01/21/25 14:30	01/21/25 16:50
460-319135-13	DUP-01	Solid	01/21/25 12:01	01/21/25 16:50
460-319135-14	IA-06-CS-4	Solid	01/21/25 14:45	01/21/25 16:50
460-319135-15	IA-06-CS-8	Solid	01/21/25 15:00	01/21/25 16:50
460-319135-16	Trip Blank	Water	01/21/25 15:00	01/21/25 16:50

Chain of Custody Record 762489

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Address: 777 New Durham Rd
Edison, NJ 08817
732-549-3900

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Mike Nolden	Site Contact: Ed Horati	Date: 1/21/2025	COC No: 1 of 2 COCs
Company Name: Geosyntec Consultants	Tel/Email: mnolden@geosyntec.com	Lab Contact:	Carrier:	Sampler: EH
Address: 1750 American Blvd Suite 200	Analysis Turnaround Time: ☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
City/State/Zip: Pennington, NJ 08534	TAT if different from Below: 5			Walk-in Client:
Phone: 201-438-5412	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Fax:				Job / SDG No.: 319135
Project Name: Manchester Landfill				
Site: Manchester Landfill				
PO #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260D-TCLVOA+10	NJEPH Fract, 8081B	8081A, 6020B, 7470A Hg	8270D SPLP TCL VOA	8270E SPLP TCL SVOAs	8081B SPLP, 6020B SPLP	7470A SPLP, 9012B SPLP	8260D TCL VOA + 10	NJEPH No Frac	8270E TCL BNA+20	8081B, 8082A	6020B TAL metals (w/Hg)	7470A, 9012B Hg			Sample Specific Notes.
1A-03-CS-4	1/21/25	0915	G	S	9			H	H	H	H	H	H	H									X=fm H=Hold
1A-03-CS-8	1/21/25	0930	G	S	9			H	H	H	H	H	H	H									
1A-02-TS	1/21/25	1030	G	S	9			X	X	X	X	H	H	H									
1A-02-CS	1/21/25	1055	G	S	9			X	X	X	X	H	H	H									
1A-05-TS	1/21/25	1130	G	S	9			X	X	X	X	H	H	H									
1A-05-CS-4	1/21/25	1140	G	S	9			X	X	X	X	H	H	H									
1A-05-CS-8	1/21/25	1200	G	S	9			X	X	X	X	H	H	H									
FB_20250121	1/21/25	1300	G	W	16										X	X	X	X	X	X			SHORT HOLD
1A-07-TS	1/21/25	1340	G	S	9			H	H	H	H	H	H	H									
1A-07-CS-4	1/21/25	1350	G	S	9			H	H	H	H	H	H	H									
1A-07-CS-8	1/21/25	1400	G	S	9			H	H	H	H	H	H	H									
1A-06-TS	1/21/25	1430	G	S	9			X	X	X	X	H	H	H									

460-319135 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☑ Archive for 1 Months

Special Instructions/QC Requirements & Comments.

6020B-TAL Metals (w/Hg), 8270E TCL BNA+20 *Refer to Lab # 46045604 for analyses * Hold all SPLP

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No.:

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Ed Horati	Geosyntec	1/21/25 1535			1/21/25 1535
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	EG	1/21/25 1650		EGT	1/21/25 1650
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

NOC 1.0112

Page 215 of 218

4/11/2025

Address: 777 New Durham Rd
Edison, NJ 08817
732-549-3900

Chain of Custody Record 762490

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Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Mike Wilden	Site Contact: Ed Hurd	Date: 1/21/25	COC No:
Company Name: Geosyntec Consultants	Tel/Email: mwilden@geosyntec.com	Lab Contact:	Carrier:	2 of 2 COCs
Address: 1750 American Blvd Ste 200	Analysis Turnaround Time			Sampler: EH
City/State/Zip: Pennington, NJ 08534	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only
Phone: 201-438-5412	TAT if different from Below: 5			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: Manchester LF				Job / SDG No.: 319135
Site: Manchester LF				
P O #:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260D TCL VOA +10	9014 Frac	8081B, 8082A	6020B w/ Hg	7471B 6010B	8270E	8270D SPLP TCL VOA	8270E SPLP TCL SVOCs	8081B SPLP	6020B SPLP	7470A SPLP	6010B SPLP	EH 1/21/25	Sample Specific Notes:
DUP-01	1/21/25	1201	G	S	9			X	X	X	X	X	X	H	H	H	H	H	H		X=Cam H=HNO3 13
LA-06-CS-4	1/21/25	1445	G	S	9			X	X	X	X	X	X	H	H	H	H	H	H		14
LA-06-CS-3	1/21/25	1500	G	S	27		Y	X	X	X	X	X	X	H	H	H	H	H	H		Perform MS/MSD 15 16

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☑ Archive for 1 Months

Special Instructions/QC Requirements & Comments:

6020B TAL Metals (w/Hg), 8270E TCL BNA +20 *Refer to Lab # 460456 04 for analyses. Hold all SPLP

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C): Obs'd.	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Geosyntec	1/21/25 1535			1/21/25 1535
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
		1/21/25			1/21/25 1650
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

NOCs

4/8/2025

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 319135

Number of Coolers: 2 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.0 °C	1.2 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	1.0 °C	1.2 °C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
9				<2			<2					>12			

If pH adjustments are required record the information below.

Sample No(s). adjusted: _____

Preservative Name/Conc. _____ Volume of Preservative used (ml) _____

Lot # of Preservative(s). _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038 Rev 4.1
10/22/2019

Initials: AMJ Date: 1/21/20

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 460-319135-1

Login Number: 319135
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Nolden
Geosyntec Consultants Inc
289 Great Road (Rte 2A)
Suite 202
Acton, Massachusetts 01720

Generated 4/1/2025 12:18:22 PM

JOB DESCRIPTION

Manchester LF JR0312

JOB NUMBER

460-319165-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Jannel Franklin, Manager of Project Management Assistants
Jannel.Franklin@et.eurofinsus.com
(732)593-2551

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 460-319165-1 — Eurofins Edison

Job Narrative
460-319165-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/22/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.3°C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Per laboratory policy, the Trip Blank sample date/time was added to reflect the latest sample date/time of the sampling event.

The following samples were activated for remaining total analysis for Metals, PCBs and out of analytical holding time for Volatiles, Semivolatiles, Pesticides, Cyanide, NJEPH and Mercury by the client on 2/28/25: IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15[MS]), 2B-04-TS (460-319165-15[MSD]), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17).

March 21st, 2025 - Remaining samples on hold cancelled by the client.

Method 8260D - Volatile Organic Compounds by GC/MS
Samples FB_20250122 (460-319165-1), IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16), 2B-04-CS-8 (460-319165-17) and TRIP BLANK (460-319165-18) were analyzed for Volatile Organic Compounds by GC/MS. The samples were prepared on 1/23/2025 and analyzed on 1/23/2025, 1/28/2025 and 3/4/2025.

The continuing calibration verification (CCV) associated with batch 460-1017719 recovered above the upper control limit for Acrolein, Acrylonitrile, Chloromethane and Methyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1017719 recovered outside control limits for the following analytes: Acrolein and Methyl acetate. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1018049 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1018049 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and trans-1,3-Dichloropropene (biased low). These analytes were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1018325 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is

considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1018325 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and trans-1,3-Dichloropropene. These analytes were biased low in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1023968 was outside the method criteria for the following analyte(s): Bromoform and Dichlorodifluoromethane (biased low); Bromomethane (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1023968 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8270E - Semivolatile Organic Compounds (GC/MS)
Samples FB_20250122 (460-319165-1), IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared on 1/23/2025 and 3/4/2025 and analyzed on 1/23/2025, 1/24/2025 and 3/4/2025.

The laboratory control sample (LCS) for preparation batch 460-1017771 and analytical batch 460-1017857 recovered outside control limits for the following analytes: Atrazine, Benzaldehyde and Hexachlorocyclopentadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-1017771 and analytical batch 460-1017857 recovered outside control limits for the following analytes: Atrazine, Benzaldehyde and Benzidine.

The continuing calibration verification (CCV) analyzed in batch 460-1017857 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-1017845 was outside the method criteria for the following analyte(s): 4,6-Dinitro-2-methylphenol and Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample duplicate (LCSD) for batch preparation batch 460-1017758 and analytical batch 460-1017845 recovered outside control limits for the following analytes: 2-Methylnaphthalene. The laboratory control sample (LCS) recovery was within control limits. The associated sample data has been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1023993 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-1023975 and analytical batch 460-1023993 recovered outside control limits for the following analytes: Atrazine and Hexachlorocyclopentadiene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons
Samples IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8

(460-319165-14), 2B-04-TS (460-319165-15), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for New Jersey - Extractable Petroleum Hydrocarbons. The samples were analyzed on 1/25/2025 and 3/6/2025.

Method NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons
Samples FB_20250122 (460-319165-1), IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for New Jersey Extractable Petroleum Hydrocarbons. The samples were prepared on 1/23/2025, 1/24/2025 and 3/5/2025 and analyzed on 1/23/2025, 1/25/2025, 3/5/2025 and 3/6/2025.

Method 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography
Samples FB_20250122 (460-319165-1), IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography. The samples were prepared on 1/24/2025, 1/25/2025 and 3/5/2025 and analyzed on 1/26/2025, 1/27/2025 and 3/5/2025.

Method 8081B - Organochlorine Pesticides (GC)
Samples FB_20250122 (460-319165-1), IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for Organochlorine Pesticides (GC). The samples were prepared on 1/24/2025, 1/25/2025 and 3/5/2025 and analyzed on 1/27/2025, 3/5/2025 and 3/6/2025.

The continuing calibration verification (CCV) associated with batch 460-1024330 recovered above the upper control limit for Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1024330/3).

The following sample was prepared outside of preparation holding time due to sample receipt : IA-04-CS-4 (460-319165-5).

The continuing calibration verification (CCV) associated with batch 460-1024271 recovered above the upper control limit for Endrin ketone and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1024271/3).

The following samples were prepared outside of preparation holding time due to sample receipt : IA-04-TS (460-319165-4), IA-04-CS-8 (460-319165-6), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15[MS]), 2B-04-TS (460-319165-15[MSD]), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17).

Method 6020B - Metals (ICP/MS)
Samples FB_20250122 (460-319165-1), IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for Metals (ICP/MS). The samples were prepared on 1/24/2025, 1/28/2025 and 3/5/2025 and analyzed on 1/24/2025, 1/28/2025, 3/5/2025 and 3/12/2025.

The field blank FB_20250122 (460-319165-1) contained calcium above the method detection limit (MDL). The result was confirmed by the analysis of the undigested sample.

Method 7470A - Mercury (CVAA)
Sample FB_20250122 (460-319165-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 1/23/2025.

Method 7471B - Mercury (CVAA)

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Samples IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 1/27/2025 and 3/5/2025.

Method 9012B - Cyanide, Total andor Amenable
Samples FB_20250122 (460-319165-1), IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for Cyanide, Total andor Amenable. The samples were prepared and analyzed on 1/24/2025, 1/28/2025 and 3/6/2025.

Method Moisture - Percent Moisture
Samples IA-01-TS (460-319165-2), IA-01-CS (460-319165-3), IA-04-TS (460-319165-4), IA-04-CS-4 (460-319165-5), IA-04-CS-8 (460-319165-6), 2B-07-CS-4 (460-319165-7), 2B-07-CS-8 (460-319165-8), 2B-05-CS-4 (460-319165-9), 2B-05-CS-8 (460-319165-10), DUP-02 (460-319165-11), 2B-03-TS (460-319165-12), 2B-03-CS-4 (460-319165-13), 2B-03-CS-8 (460-319165-14), 2B-04-TS (460-319165-15), 2B-04-TS (460-319165-15MS), 2B-04-TS (460-319165-15MSD), 2B-04-CS-4 (460-319165-16) and 2B-04-CS-8 (460-319165-17) were analyzed for Percent Moisture. The samples were analyzed on 1/22/2025 and 3/5/2025.

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: FB_20250122 — Lab Sample ID: 460-319165-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	54.2	J	500	53.6	ug/L	1		6020B	Total/NA

Client Sample ID: IA-01-TS — Lab Sample ID: 460-319165-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0085		0.0065	0.0062	mg/Kg	1	☼	8260D	Total/NA
2-Methylnaphthalene	0.016	J *-	0.34	0.0096	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.035		0.034	0.026	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.034		0.034	0.0092	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.040		0.034	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.027	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.022	J	0.034	0.0067	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.038	J	0.34	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.059	J	0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.025	J	0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.014	J	0.34	0.0059	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.047	J	0.34	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.052	J	0.34	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1860		19.3	5.3	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.95	J	0.97	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	6.0		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	827		96.7	39.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	4.1		1.9	0.88	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.29	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	5.9		1.9	0.36	mg/Kg	1	☼	6020B	Total/NA
Iron	2820		58.0	19.5	mg/Kg	1	☼	6020B	Total/NA
Lead	4.7		0.58	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	105		96.7	9.9	mg/Kg	1	☼	6020B	Total/NA
Manganese	24.2		3.9	0.39	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.98	J	1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	65.3	J	96.7	15.7	mg/Kg	1	☼	6020B	Total/NA
Sodium	247		96.7	44.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.0		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA
Zinc	8.6		7.7	2.9	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0098	J	0.016	0.0077	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-01-CS — Lab Sample ID: 460-319165-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.028		0.0064	0.0061	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]pyrene	0.026	J	0.034	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.044		0.034	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.024	J	0.34	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.015	J	0.034	0.0067	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.027	J	0.34	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.024	J	0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.034	0.013	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.014	J	0.34	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.030	J	0.34	0.0085	mg/Kg	1	☼	8270E	Total/NA
Aluminum	4970		18.1	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.91		0.91	0.093	mg/Kg	1	☼	6020B	Total/NA
Barium	3.3		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample ID: IA-01-CS (Continued)

Lab Sample ID: 460-319165-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	163		90.5	36.8	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.7		1.8	0.82	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.22	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	2.5		1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	2940		54.3	18.3	mg/Kg	1	☼	6020B	Total/NA
Lead	2.6		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	65.1	J	90.5	9.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.0		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.7	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	76.1	J	90.5	14.7	mg/Kg	1	☼	6020B	Total/NA
Sodium	49.7	J	90.5	41.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.4		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	4.2	J	7.2	2.8	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IA-04-TS

Lab Sample ID: 460-319165-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.029	J H	0.036	0.0097	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.053	H	0.036	0.0094	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.031	J H	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.015	J H	0.036	0.0071	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.038	J H	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.036	J H	0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.021	J H	0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.017	J H	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.033	J H	0.36	0.0091	mg/Kg	1	☼	8270E	Total/NA
Total Aromatics	14		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	14		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	4.4	H	2.2	2.2	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	9.2	H	8.8	8.8	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	3910		20.1	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.2		1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	8.9		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.071	J	0.40	0.057	mg/Kg	1	☼	6020B	Total/NA
Calcium	1780		100	40.8	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.9		2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Cobalt	1.1	J	2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	5.5		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	5480		60.2	20.3	mg/Kg	1	☼	6020B	Total/NA
Lead	7.1		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	522		100	10.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	33.5		4.0	0.40	mg/Kg	1	☼	6020B	Total/NA
Nickel	3.0		2.0	0.47	mg/Kg	1	☼	6020B	Total/NA
Potassium	203		100	16.3	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.16	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Sodium	1410		100	45.8	mg/Kg	1	☼	6020B	Total/NA
Vanadium	8.9		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	16.8		8.0	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.021	H	0.019	0.0088	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IA-04-CS-4 — Lab Sample ID: 460-319165-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Aromatics	13		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	13		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	2.9	H	2.1	2.1	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	10	H	8.5	8.5	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	6930		18.9	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.85	J	0.94	0.097	mg/Kg	1	☼	6020B	Total/NA
Barium	6.6		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.068	J	0.38	0.054	mg/Kg	1	☼	6020B	Total/NA
Calcium	133		94.3	38.4	mg/Kg	1	☼	6020B	Total/NA
Chromium	7.3		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.34	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	4.1		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	2980		56.6	19.0	mg/Kg	1	☼	6020B	Total/NA
Lead	2.5		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	96.3		94.3	9.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.5	J	3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	2.1		1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	205		94.3	15.3	mg/Kg	1	☼	6020B	Total/NA
Sodium	135		94.3	43.1	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.2		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	4.9	J	7.5	2.9	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.017	H	0.017	0.0080	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IA-04-CS-8 — Lab Sample ID: 460-319165-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1990		20.1	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.37	J	1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	8.1		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Calcium	75.5	J	100	40.9	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.5		2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Copper	1.7	J	2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	912		60.2	20.3	mg/Kg	1	☼	6020B	Total/NA
Lead	3.5		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	52.8	J	100	10.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.1	J	4.0	0.40	mg/Kg	1	☼	6020B	Total/NA
Potassium	246		100	16.3	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.9		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2B-07-CS-4 — Lab Sample ID: 460-319165-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.069		0.0071	0.0067	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1970		18.9	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.25	J	0.94	0.097	mg/Kg	1	☼	6020B	Total/NA
Barium	2.2		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.6		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Copper	0.90	J	1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	929		56.7	19.1	mg/Kg	1	☼	6020B	Total/NA
Lead	0.83		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	23.8	J	94.4	9.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.4	J	3.8	0.38	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2B-07-CS-4 (Continued) — Lab Sample ID: 460-319165-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	1.1	J	1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	27.1	J	94.4	15.3	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.8		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2B-07-CS-8 — Lab Sample ID: 460-319165-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.077		0.0077	0.0074	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1020		18.4	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.18	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	2.1		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.3		1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Copper	0.48	J	1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	370		55.2	18.6	mg/Kg	1	☼	6020B	Total/NA
Lead	1.0		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	15.4	J	91.9	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	0.96	J	3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Potassium	83.8	J	91.9	14.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.5		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2B-05-CS-4 — Lab Sample ID: 460-319165-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3870		18.7	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.58	J	0.94	0.096	mg/Kg	1	☼	6020B	Total/NA
Barium	4.4		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.2		1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.20	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	2.1		1.9	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	1440		56.2	18.9	mg/Kg	1	☼	6020B	Total/NA
Lead	2.5		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	41.3	J	93.6	9.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.6	J	3.7	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	2.7		1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	61.7	J	93.6	15.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.4		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2B-05-CS-8 — Lab Sample ID: 460-319165-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8790		18.7	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.3		0.94	0.096	mg/Kg	1	☼	6020B	Total/NA
Barium	17.1		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.10	J	0.37	0.053	mg/Kg	1	☼	6020B	Total/NA
Chromium	7.9		1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.56	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	4.8		1.9	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	2720		56.1	18.9	mg/Kg	1	☼	6020B	Total/NA
Lead	2.5		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	63.0	J	93.6	9.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.2	J	3.7	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	8.7		1.9	0.44	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2B-05-CS-8 (Continued) — Lab Sample ID: 460-319165-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	135		93.6	15.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.9		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: DUP-02 — Lab Sample ID: 460-319165-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.034	J H	0.34	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	7310		19.6	5.4	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.1		0.98	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	15.0		2.0	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.093	J	0.39	0.056	mg/Kg	1	☼	6020B	Total/NA
Chromium	7.2		2.0	0.89	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.50	J	2.0	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	4.1		2.0	0.36	mg/Kg	1	☼	6020B	Total/NA
Iron	2230		58.8	19.8	mg/Kg	1	☼	6020B	Total/NA
Lead	2.4		0.59	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	56.1	J	98.0	10	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.1	J	3.9	0.39	mg/Kg	1	☼	6020B	Total/NA
Nickel	7.8		2.0	0.46	mg/Kg	1	☼	6020B	Total/NA
Potassium	122		98.0	15.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.8		2.0	0.20	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0096	J H	0.016	0.0076	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2B-03-TS — Lab Sample ID: 460-319165-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.13		0.0077	0.0073	mg/Kg	1	☼	8260D	Total/NA
Benzo[b]fluoranthene	0.0087	J	0.033	0.0086	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.0087	J	0.33	0.0083	mg/Kg	1	☼	8270E	Total/NA
Aluminum	713		18.3	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.41	J	0.92	0.094	mg/Kg	1	☼	6020B	Total/NA
Barium	1.7	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.4	J	1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Copper	1.3	J	1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	513		55.0	18.5	mg/Kg	1	☼	6020B	Total/NA
Lead	9.9		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	16.2	J	91.6	9.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.0	J	3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Potassium	20.6	J	91.6	14.8	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.7		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2B-03-CS-4 — Lab Sample ID: 460-319165-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.044		0.0063	0.0060	mg/Kg	1	☼	8260D	Total/NA
Aluminum	10000		19.5	5.3	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.7		0.97	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	5.8		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.079	J	0.39	0.055	mg/Kg	1	☼	6020B	Total/NA
Chromium	9.4		1.9	0.88	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.33	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	4.2		1.9	0.36	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2B-03-CS-4 (Continued) — Lab Sample ID: 460-319165-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4630		58.4	19.7	mg/Kg	1	☼	6020B	Total/NA
Lead	2.0		0.58	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	66.5	J	97.4	9.9	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.6	J	3.9	0.39	mg/Kg	1	☼	6020B	Total/NA
Nickel	3.0		1.9	0.46	mg/Kg	1	☼	6020B	Total/NA
Potassium	142		97.4	15.8	mg/Kg	1	☼	6020B	Total/NA
Vanadium	11.5		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.011	J	0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2B-03-CS-8 — Lab Sample ID: 460-319165-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.045		0.0063	0.0060	mg/Kg	1	☼	8260D	Total/NA
Aluminum	2830		18.1	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.30	J	0.91	0.093	mg/Kg	1	☼	6020B	Total/NA
Barium	3.0		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	4.5		1.8	0.82	mg/Kg	1	☼	6020B	Total/NA
Copper	1.1	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	1040		54.4	18.3	mg/Kg	1	☼	6020B	Total/NA
Lead	1.4		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	33.1	J	90.6	9.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.1	J	3.6	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.56	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	157		90.6	14.7	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.6		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2B-04-TS — Lab Sample ID: 460-319165-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.011	J H	0.34	0.0084	mg/Kg	1	☼	8270E	Total/NA
Aluminum	699	F1	20.4	5.6	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.16	J F1	1.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.51	J	1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	26.1	F1	2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Calcium	126		102	41.6	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.7	J	2.0	0.93	mg/Kg	1	☼	6020B	Total/NA
Copper	2.6		2.0	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	651		61.3	20.6	mg/Kg	1	☼	6020B	Total/NA
Lead	14.3	F1	0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	46.1	J	102	10.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.3	J	4.1	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.66	J	2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	65.0	J	102	16.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.14	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.2		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	4.7	J	8.2	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.017	H	0.016	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2B-04-CS-4 — Lab Sample ID: 460-319165-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.031	J H	0.33	0.013	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2B-04-CS-4 (Continued) — Lab Sample ID: 460-319165-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5120		18.0	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.83	J	0.90	0.093	mg/Kg	1	☼	6020B	Total/NA
Barium	3.6		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.3		1.8	0.82	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.20	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	2.9		1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	2410		54.1	18.2	mg/Kg	1	☼	6020B	Total/NA
Lead	2.3		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	63.6	J	90.2	9.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.4	J	3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.8		1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	100		90.2	14.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.12	J	1.1	0.12	mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.0		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.011	J H	0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2B-04-CS-8 — Lab Sample ID: 460-319165-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5250		18.4	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.87	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	3.7		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.5		1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.22	J	1.8	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	2.8		1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	2860		55.1	18.6	mg/Kg	1	☼	6020B	Total/NA
Lead	1.7		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	63.5	J	91.8	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.4	J	3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.5	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	124		91.8	14.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.8		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 460-319165-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: FB_20250122

Date Collected: 01/22/25 12:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/23/25 11:12	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/23/25 11:12	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/23/25 11:12	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/23/25 11:12	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/23/25 11:12	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/23/25 11:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/23/25 11:12	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/23/25 11:12	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/23/25 11:12	1
1,4-Dioxane	28	U	50	28	ug/L			01/23/25 11:12	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/23/25 11:12	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/23/25 11:12	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/23/25 11:12	1
Acetone	4.4	U	5.0	4.4	ug/L			01/23/25 11:12	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/23/25 11:12	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/23/25 11:12	1
Benzene	0.20	U	1.0	0.20	ug/L			01/23/25 11:12	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/23/25 11:12	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/23/25 11:12	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/23/25 11:12	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/23/25 11:12	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/23/25 11:12	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/23/25 11:12	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/23/25 11:12	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/23/25 11:12	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/23/25 11:12	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/23/25 11:12	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 11:12	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/23/25 11:12	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/23/25 11:12	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/23/25 11:12	1
Methyl acetate	0.79	U *+	5.0	0.79	ug/L			01/23/25 11:12	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/23/25 11:12	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/23/25 11:12	1
Styrene	0.42	U	1.0	0.42	ug/L			01/23/25 11:12	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/23/25 11:12	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/23/25 11:12	1
Toluene	0.38	U	1.0	0.38	ug/L			01/23/25 11:12	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/23/25 11:12	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 11:12	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/23/25 11:12	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/23/25 11:12	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/23/25 11:12	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/23/25 11:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/23/25 11:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 128*		*01/23/25 11:12*	*1*

Client Sample ID: FB_20250122
Date Collected: 01/22/25 12:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*95*		*76 - 120*		*01/23/25 11:12*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 132*		*01/23/25 11:12*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*01/23/25 11:12*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:51	1
1,2,4-Trichlorobenzene	0.64	U	2.0	0.64	ug/L		01/23/25 10:04	01/23/25 23:51	1
1,2-Dichlorobenzene	0.50	U	10	0.50	ug/L		01/23/25 10:04	01/23/25 23:51	1
1,2-Diphenylhydrazine	0.79	U	10	0.79	ug/L		01/23/25 10:04	01/23/25 23:51	1
1,3-Dichlorobenzene	2.0	U	10	2.0	ug/L		01/23/25 10:04	01/23/25 23:51	1
1,4-Dichlorobenzene	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:51	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 23:51	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 23:51	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:51	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		01/23/25 10:04	01/23/25 23:51	1
2,4-Dinitrophenol	11	U	40	11	ug/L		01/23/25 10:04	01/23/25 23:51	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 23:51	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 23:51	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:51	1
2-Chlorophenol	0.95	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 23:51	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		01/23/25 10:04	01/23/25 23:51	1
2-Methylphenol	0.67	U	10	0.67	ug/L		01/23/25 10:04	01/23/25 23:51	1
2-Nitroaniline	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:51	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 23:51	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 23:51	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 23:51	1
4,6-Dinitro-2-methylphenol	8.6	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 23:51	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 23:51	1
4-Chloro-3-methylphenol	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:51	1
4-Chloroaniline	1.9	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 23:51	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:51	1
4-Methylphenol	0.65	U	10	0.65	ug/L		01/23/25 10:04	01/23/25 23:51	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 23:51	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 23:51	1
Acenaphthene	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:51	1
Acenaphthylene	0.82	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 23:51	1
Acetophenone	2.3	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 23:51	1
Anthracene	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:51	1
Atrazine	1.3	U *1 *+	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 23:51	1
Benzaldehyde	2.1	U *1 *+	10	2.1	ug/L		01/23/25 10:04	01/23/25 23:51	1
Benzidine	2.8	U *1	20	2.8	ug/L		01/23/25 10:04	01/23/25 23:51	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 23:51	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 23:51	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 23:51	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 23:51	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 23:51	1
bis (2-chloroisopropyl) ether	0.63	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 23:51	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 23:51	1

Client Sample ID: FB_20250122
Date Collected: 01/22/25 12:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 23:51	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 23:51	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 23:51	1
Caprolactam	2.2	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 23:51	1
Carbazole	0.68	U	10	0.68	ug/L		01/23/25 10:04	01/23/25 23:51	1
Chrysene	0.91	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 23:51	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 23:51	1
Dibenzofuran	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 23:51	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 23:51	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 23:51	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 23:51	1
Di-n-octyl phthalate	4.0	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 23:51	1
Fluoranthene	0.84	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 23:51	1
Fluorene	0.91	U	10	0.91	ug/L		01/23/25 10:04	01/23/25 23:51	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 23:51	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 23:51	1
Hexachlorocyclopentadiene	3.6	U *+	10	3.6	ug/L		01/23/25 10:04	01/23/25 23:51	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 23:51	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 23:51	1
Isophorone	0.80	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 23:51	1
Naphthalene	0.54	U	2.0	0.54	ug/L		01/23/25 10:04	01/23/25 23:51	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 23:51	1
N-Nitrosodimethylamine	0.45	U	10	0.45	ug/L		01/23/25 10:04	01/23/25 23:51	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 23:51	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 23:51	1
Pentachlorophenol	6.6	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 23:51	1
Phenanthrene	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 23:51	1
Phenol	0.29	U	10	0.29	ug/L		01/23/25 10:04	01/23/25 23:51	1
Pyrene	1.6	U	10	1.6	ug/L		01/23/25 10:04	01/23/25 23:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*01/23/25 10:04*	*01/23/25 23:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*37 - 150*	*01/23/25 10:04*	*01/23/25 23:51*	*1*
2-Fluorobiphenyl	*100*		*46 - 139*	*01/23/25 10:04*	*01/23/25 23:51*	*1*
2-Fluorophenol (Surr)	*59*		*16 - 80*	*01/23/25 10:04*	*01/23/25 23:51*	*1*
Nitrobenzene-d5 (Surr)	*100*		*51 - 145*	*01/23/25 10:04*	*01/23/25 23:51*	*1*
Phenol-d5 (Surr)	*39*		*10 - 56*	*01/23/25 10:04*	*01/23/25 23:51*	*1*
Terphenyl-d14 (Surr)	*41*		*13 - 159*	*01/23/25 10:04*	*01/23/25 23:51*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/24/25 09:08	01/27/25 08:38	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/24/25 09:08	01/27/25 08:38	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/24/25 09:08	01/27/25 08:38	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/24/25 09:08	01/27/25 08:38	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/24/25 09:08	01/27/25 08:38	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/24/25 09:08	01/27/25 08:38	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/24/25 09:08	01/27/25 08:38	1

Client Sample ID: FB_20250122
Date Collected: 01/22/25 12:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-1
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/24/25 09:08	01/27/25 08:38	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/24/25 09:08	01/27/25 08:38	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/24/25 09:08	01/27/25 08:38	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/24/25 09:08	01/27/25 08:38	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/24/25 09:08	01/27/25 08:38	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/24/25 09:08	01/27/25 08:38	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/24/25 09:08	01/27/25 08:38	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/24/25 09:08	01/27/25 08:38	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/24/25 09:08	01/27/25 08:38	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/24/25 09:08	01/27/25 08:38	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/24/25 09:08	01/27/25 08:38	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/24/25 09:08	01/27/25 08:38	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/24/25 09:08	01/27/25 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*111*		*34 - 120*	*01/24/25 09:08*	*01/27/25 08:38*	*1*
Tetrachloro-m-xylene	*104*		*34 - 120*	*01/24/25 09:08*	*01/27/25 08:38*	*1*
DCB Decachlorobiphenyl	*85*		*30 - 131*	*01/24/25 09:08*	*01/27/25 08:38*	*1*
DCB Decachlorobiphenyl	*85*		*30 - 131*	*01/24/25 09:08*	*01/27/25 08:38*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/24/25 09:12	01/27/25 13:44	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/24/25 09:12	01/27/25 13:44	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/24/25 09:12	01/27/25 13:44	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/24/25 09:12	01/27/25 13:44	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/24/25 09:12	01/27/25 13:44	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/24/25 09:12	01/27/25 13:44	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/24/25 09:12	01/27/25 13:44	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/24/25 09:12	01/27/25 13:44	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/24/25 09:12	01/27/25 13:44	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/24/25 09:12	01/27/25 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*18 - 145*	*01/24/25 09:12*	*01/27/25 13:44*	*1*
DCB Decachlorobiphenyl	*79*		*18 - 145*	*01/24/25 09:12*	*01/27/25 13:44*	*1*
Tetrachloro-m-xylene	*89*		*21 - 124*	*01/24/25 09:12*	*01/27/25 13:44*	*1*
Tetrachloro-m-xylene	*88*		*21 - 124*	*01/24/25 09:12*	*01/27/25 13:44*	*1*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH (C9-C40)	0.40	U	0.40	0.40	mg/L		01/23/25 10:08	01/23/25 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*40 - 140*	*01/23/25 10:08*	*01/23/25 20:10*	*1*
1-Chlorooctadecane	*77*		*40 - 140*	*01/23/25 10:08*	*01/23/25 20:10*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		01/24/25 10:30	01/24/25 14:07	1
Antimony	0.76	U	2.0	0.76	ug/L		01/24/25 10:30	01/24/25 14:07	1

Client Sample ID: FB_20250122

Date Collected: 01/22/25 12:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.89	U	2.0	0.89	ug/L		01/24/25 10:30	01/24/25 14:07	1
Barium	0.91	U	4.0	0.91	ug/L		01/24/25 10:30	01/24/25 14:07	1
Beryllium	0.13	U	0.80	0.13	ug/L		01/24/25 10:30	01/24/25 14:07	1
Cadmium	0.39	U	2.0	0.39	ug/L		01/24/25 10:30	01/24/25 14:07	1
Calcium	**54.2**	**J**	500	53.6	ug/L		01/24/25 10:30	01/24/25 14:07	1
Chromium	2.5	U	4.0	2.5	ug/L		01/24/25 10:30	01/24/25 14:07	1
Cobalt	0.71	U	4.0	0.71	ug/L		01/24/25 10:30	01/24/25 14:07	1
Copper	2.5	U	4.0	2.5	ug/L		01/24/25 10:30	01/24/25 14:07	1
Iron	58.2	U	120	58.2	ug/L		01/24/25 10:30	01/24/25 14:07	1
Lead	0.84	U	1.2	0.84	ug/L		01/24/25 10:30	01/24/25 14:07	1
Magnesium	46.9	U	200	46.9	ug/L		01/24/25 10:30	01/24/25 14:07	1
Manganese	1.5	U	8.0	1.5	ug/L		01/24/25 10:30	01/24/25 14:07	1
Nickel	0.91	U	4.0	0.91	ug/L		01/24/25 10:30	01/24/25 14:07	1
Potassium	112	U	200	112	ug/L		01/24/25 10:30	01/24/25 14:07	1
Selenium	0.59	U	2.5	0.59	ug/L		01/24/25 10:30	01/24/25 14:07	1
Silver	0.29	U	2.0	0.29	ug/L		01/24/25 10:30	01/24/25 14:07	1
Sodium	219	U	500	219	ug/L		01/24/25 10:30	01/24/25 14:07	1
Thallium	0.21	U	0.80	0.21	ug/L		01/24/25 10:30	01/24/25 14:07	1
Vanadium	0.68	U	4.0	0.68	ug/L		01/24/25 10:30	01/24/25 14:07	1
Zinc	6.5	U	16.0	6.5	ug/L		01/24/25 10:30	01/24/25 14:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0040	U	0.010	0.0040	mg/L		01/24/25 17:52	01/24/25 21:13	1

Client Sample ID: IA-01-TS

Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,2-Dibromo-3-Chloropropane	0.00050	U *-	0.0011	0.00050	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,2-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,2-Dichloropropane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,3-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1

Client Sample ID: IA-01-TS
Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	0.00040	U	0.0054	0.00040	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
2-Hexanone	0.0019	U	0.0054	0.0019	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0054	0.0017	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Acetone	**0.0085**		0.0065	0.0062	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Bromodichloromethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Bromoform	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Carbon disulfide	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Carbon tetrachloride	0.00042	U	0.0011	0.00042	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Chlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Chloroethane	0.00057	U	0.0011	0.00057	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Chloromethane	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Isopropylbenzene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Methyl acetate	0.0047	U	0.0054	0.0047	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Methyl tert-butyl ether	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Methylcyclohexane	0.00054	U	0.0011	0.00054	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Methylene Chloride	0.0012	U	0.0022	0.0012	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Tetrachloroethene	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
trans-1,3-Dichloropropene	0.00029	U *-	0.0011	0.00029	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Trichlorofluoromethane	0.00044	U	0.0011	0.00044	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1
Vinyl chloride	0.00059	U	0.0011	0.00059	mg/Kg	☼	01/23/25 05:44	01/28/25 09:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/23/25 05:44*	*01/28/25 09:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 138*	*01/23/25 05:44*	*01/28/25 09:28*	*1*
4-Bromofluorobenzene	*97*		*71 - 128*	*01/23/25 05:44*	*01/28/25 09:28*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 150*	*01/23/25 05:44*	*01/28/25 09:28*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*	*01/23/25 05:44*	*01/28/25 09:28*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
1,2,4-Trichlorobenzene	0.0088	U	0.034	0.0088	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: IA-01-TS
Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
1,2-Diphenylhydrazine	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2-Methylnaphthalene	**0.016**	**J *-**	0.34	0.0096	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Acenaphthylene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Anthracene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Benzidine	0.072	U	0.34	0.072	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Benzo[a]anthracene	**0.035**		0.034	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Benzo[a]pyrene	**0.034**		0.034	0.0092	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Benzo[b]fluoranthene	**0.040**		0.034	0.0089	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Benzo[g,h,i]perylene	**0.027**	**J**	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Benzo[k]fluoranthene	**0.022**	**J**	0.034	0.0067	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
bis (2-chloroisopropyl) ether	0.021	U	0.34	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Caprolactam	0.054	U	0.34	0.054	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Chrysene	**0.038**	**J**	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1

Client Sample ID: IA-01-TS

Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2

Matrix: Solid
Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Fluoranthene	**0.059**	**J**	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Hexachlorobutadiene	0.0073	U	0.070	0.0073	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Indeno[1,2,3-cd]pyrene	**0.025**	**J**	0.034	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Isophorone	0.099	U	0.14	0.099	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Naphthalene	**0.014**	**J**	0.34	0.0059	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Pentachlorophenol	0.070	U	0.28	0.070	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Phenanthrene	**0.047**	**J**	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1
Pyrene	**0.052**	**J**	0.34	0.0085	mg/Kg	☼	01/23/25 09:13	01/24/25 02:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*2.0*	*A J*	*mg/Kg*	☼	*1.89*	*N/A*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
n-Hexadecanoic acid	*0.32*	*J N*	*mg/Kg*	☼	*7.58*	*57-10-3*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
Cyclic octaatomic sulfur	*0.55*	*J N*	*mg/Kg*	☼	*8.14*	*10544-50-0*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
Unknown	*0.67*	*J*	*mg/Kg*	☼	*10.67*	*N/A*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
Unknown	*0.78*	*J*	*mg/Kg*	☼	*11.18*	*N/A*	*01/23/25 09:13*	*01/24/25 02:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*24 - 137*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
2-Fluorobiphenyl	*67*		*38 - 128*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
2-Fluorophenol (Surr)	*57*		*31 - 133*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
Nitrobenzene-d5 (Surr)	*58*		*31 - 120*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
Phenol-d5 (Surr)	*60*		*35 - 132*	*01/23/25 09:13*	*01/24/25 02:31*	*1*
Terphenyl-d14 (Surr)	*65*		*44 - 147*	*01/23/25 09:13*	*01/24/25 02:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
4,4'-DDE	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Endosulfan sulfate	0.00088	U	0.0070	0.00088	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1

Client Sample ID: IA-01-TS
Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Endrin aldehyde	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Heptachlor	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	01/25/25 18:28	01/27/25 07:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*17 - 150*	*01/25/25 18:28*	*01/27/25 07:37*	*1*
DCB Decachlorobiphenyl	*97*		*17 - 150*	*01/25/25 18:28*	*01/27/25 07:37*	*1*
Tetrachloro-m-xylene	*86*		*21 - 150*	*01/25/25 18:28*	*01/27/25 07:37*	*1*
Tetrachloro-m-xylene	*73*		*21 - 150*	*01/25/25 18:28*	*01/27/25 07:37*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1
Polychlorinated biphenyls, Total	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*20 - 150*	*01/25/25 18:25*	*01/26/25 14:35*	*1*
DCB Decachlorobiphenyl	*77*		*20 - 150*	*01/25/25 18:25*	*01/26/25 14:35*	*1*
Tetrachloro-m-xylene	*64*		*20 - 150*	*01/25/25 18:25*	*01/26/25 14:35*	*1*
Tetrachloro-m-xylene	*63*		*20 - 150*	*01/25/25 18:25*	*01/26/25 14:35*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:45	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:45	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:45	1
C21-C40 Aliphatics	7.3	U	7.3	7.3	mg/Kg	☼	01/24/25 17:31	01/25/25 12:45	1
C16-C21 Aromatics	5.2	U	5.2	5.2	mg/Kg	☼	01/24/25 17:31	01/25/25 11:59	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 11:59	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/24/25 17:31	01/25/25 11:59	1
C21-C36 Aromatic	8.3	U	8.3	8.3	mg/Kg	☼	01/24/25 17:31	01/25/25 11:59	1

Client Sample ID: IA-01-TS

Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2

Matrix: Solid
Percent Solids: 95.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*40 - 140*	*01/24/25 17:31*	*01/25/25 11:59*	*1*
2-Fluorobiphenyl	*90*		*40 - 140*	*01/24/25 17:31*	*01/25/25 11:59*	*1*
2-Bromonaphthalene	*90*		*40 - 140*	*01/24/25 17:31*	*01/25/25 11:59*	*1*
1-Chlorooctadecane	*67*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:45*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1860**		19.3	5.3	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Antimony	0.14	U	0.97	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Arsenic	**0.95**	**J**	0.97	0.10	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Barium	**6.0**		1.9	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Beryllium	0.055	U	0.39	0.055	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Cadmium	0.11	U	0.97	0.11	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Calcium	**827**		96.7	39.3	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Chromium	**4.1**		1.9	0.88	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Cobalt	**0.29**	**J**	1.9	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Copper	**5.9**		1.9	0.36	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Iron	**2820**		58.0	19.5	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Lead	**4.7**		0.58	0.19	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Magnesium	**105**		96.7	9.9	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Manganese	**24.2**		3.9	0.39	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Nickel	**0.98**	**J**	1.9	0.45	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Potassium	**65.3**	**J**	96.7	15.7	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Silver	0.086	U	0.39	0.086	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Sodium	**247**		96.7	44.2	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Thallium	0.040	U	0.39	0.040	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Vanadium	**5.0**		1.9	0.20	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1
Zinc	**8.6**		7.7	2.9	mg/Kg	☼	01/28/25 06:02	01/28/25 14:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0098**	**J**	0.016	0.0077	mg/Kg	☼	01/27/25 01:13	01/27/25 05:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	01/28/25 09:12	01/28/25 12:24	1
Percent Moisture (EPA Moisture)	**4.2**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**95.8**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: IA-01-CS

Date Collected: 01/22/25 08:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-3

Matrix: Solid
Percent Solids: 96.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1

Client Sample ID: IA-01-CS
Date Collected: 01/22/25 08:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-3
Matrix: Solid
Percent Solids: 96.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,2-Dibromo-3-Chloropropane	0.00049	U *-	0.0011	0.00049	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,2-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
2-Butanone (MEK)	0.00039	U	0.0053	0.00039	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
2-Hexanone	0.0018	U	0.0053	0.0018	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0053	0.0017	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Acetone	**0.028**		0.0064	0.0061	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Bromodichloromethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Bromomethane	0.0011	U	0.0021	0.0011	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Carbon disulfide	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Chlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Chloroethane	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Chloromethane	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Methyl acetate	0.0046	U	0.0053	0.0046	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Methyl tert-butyl ether	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Methylcyclohexane	0.00053	U	0.0011	0.00053	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Tetrachloroethene	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
trans-1,3-Dichloropropene	0.00028	U *-	0.0011	0.00028	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1
Vinyl chloride	0.00058	U	0.0011	0.00058	mg/Kg	☼	01/23/25 05:45	01/28/25 09:53	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/23/25 05:45*	*01/28/25 09:53*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: IA-01-CS

Date Collected: 01/22/25 08:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-3

Matrix: Solid
Percent Solids: 96.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 138*	*01/23/25 05:45*	*01/28/25 09:53*	*1*
4-Bromofluorobenzene	*92*		*71 - 128*	*01/23/25 05:45*	*01/28/25 09:53*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 150*	*01/23/25 05:45*	*01/28/25 09:53*	*1*
Toluene-d8 (Surr)	*93*		*71 - 126*	*01/23/25 05:45*	*01/28/25 09:53*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
1,2,4-Trichlorobenzene	0.0088	U	0.034	0.0088	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
1,2-Dichlorobenzene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
1,2-Diphenylhydrazine	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2-Methylnaphthalene	0.0096	U *-	0.34	0.0096	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
3-Nitroaniline	0.081	U	0.34	0.081	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Acenaphthylene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Anthracene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Benzidine	0.072	U	0.34	0.072	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Benzo[a]pyrene	**0.026**	**J**	0.034	0.0091	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Benzo[b]fluoranthene	**0.044**		0.034	0.0089	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Benzo[g,h,i]perylene	**0.024**	**J**	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Benzo[k]fluoranthene	**0.015**	**J**	0.034	0.0067	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
bis (2-chloroisopropyl) ether	0.021	U	0.34	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1

Client Sample ID: IA-01-CS
Date Collected: 01/22/25 08:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-3
Matrix: Solid
Percent Solids: 96.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Caprolactam	0.053	U	0.34	0.053	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Chrysene	**0.027**	**J**	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Fluoranthene	**0.024**	**J**	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Hexachlorobutadiene	0.0073	U	0.070	0.0073	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Indeno[1,2,3-cd]pyrene	**0.023**	**J**	0.034	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Isophorone	0.099	U	0.14	0.099	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Naphthalene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Pentachlorophenol	0.070	U	0.28	0.070	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Phenanthrene	**0.014**	**J**	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1
Pyrene	**0.030**	**J**	0.34	0.0085	mg/Kg	☼	01/23/25 09:13	01/24/25 01:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Stigmasterol, 22,23-dihydro-	*0.87*	*J N*	*mg/Kg*	☼	*12.47*	*1000214-20-7*	*01/23/25 09:13*	*01/24/25 01:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*24 - 137*	*01/23/25 09:13*	*01/24/25 01:52*	*1*
2-Fluorobiphenyl	*65*		*38 - 128*	*01/23/25 09:13*	*01/24/25 01:52*	*1*
2-Fluorophenol (Surr)	*58*		*31 - 133*	*01/23/25 09:13*	*01/24/25 01:52*	*1*
Nitrobenzene-d5 (Surr)	*60*		*31 - 120*	*01/23/25 09:13*	*01/24/25 01:52*	*1*
Phenol-d5 (Surr)	*59*		*35 - 132*	*01/23/25 09:13*	*01/24/25 01:52*	*1*
Terphenyl-d14 (Surr)	*65*		*44 - 147*	*01/23/25 09:13*	*01/24/25 01:52*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
4,4'-DDE	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1

Client Sample ID: IA-01-CS

Date Collected: 01/22/25 08:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-3

Matrix: Solid
Percent Solids: 96.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Endosulfan sulfate	0.00087	U	0.0070	0.00087	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Endrin aldehyde	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Heptachlor	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	01/25/25 18:28	01/27/25 07:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*17 - 150*	*01/25/25 18:28*	*01/27/25 07:53*	*1*
DCB Decachlorobiphenyl	*118*		*17 - 150*	*01/25/25 18:28*	*01/27/25 07:53*	*1*
Tetrachloro-m-xylene	*93*		*21 - 150*	*01/25/25 18:28*	*01/27/25 07:53*	*1*
Tetrachloro-m-xylene	*90*		*21 - 150*	*01/25/25 18:28*	*01/27/25 07:53*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1
Polychlorinated biphenyls, Total	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*20 - 150*	*01/25/25 18:25*	*01/26/25 14:51*	*1*
DCB Decachlorobiphenyl	*99*		*20 - 150*	*01/25/25 18:25*	*01/26/25 14:51*	*1*
Tetrachloro-m-xylene	*75*		*20 - 150*	*01/25/25 18:25*	*01/26/25 14:51*	*1*
Tetrachloro-m-xylene	*73*		*20 - 150*	*01/25/25 18:25*	*01/26/25 14:51*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:01	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:01	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:01	1

Client Sample ID: IA-01-CS

Date Collected: 01/22/25 08:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-3

Matrix: Solid
Percent Solids: 96.0

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C21-C40 Aliphatics	7.3	U	7.3	7.3	mg/Kg	☼	01/24/25 17:31	01/25/25 13:01	1
C16-C21 Aromatics	5.2	U	5.2	5.2	mg/Kg	☼	01/24/25 17:31	01/25/25 12:14	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:14	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:14	1
C21-C36 Aromatic	8.3	U	8.3	8.3	mg/Kg	☼	01/24/25 17:31	01/25/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:14*	*1*
2-Fluorobiphenyl	*93*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:14*	*1*
2-Bromonaphthalene	*92*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:14*	*1*
1-Chlorooctadecane	*73*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:01*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4970**		18.1	5.0	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Antimony	0.13	U	0.91	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Arsenic	**0.91**		0.91	0.093	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Barium	**3.3**		1.8	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Beryllium	0.052	U	0.36	0.052	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Cadmium	0.10	U	0.91	0.10	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Calcium	**163**		90.5	36.8	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Chromium	**5.7**		1.8	0.82	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Cobalt	**0.22**	**J**	1.8	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Copper	**2.5**		1.8	0.33	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Iron	**2940**		54.3	18.3	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Lead	**2.6**		0.54	0.18	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Magnesium	**65.1**	**J**	90.5	9.2	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Manganese	**4.0**		3.6	0.36	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Nickel	**1.7**	**J**	1.8	0.43	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Potassium	**76.1**	**J**	90.5	14.7	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Silver	0.081	U	0.36	0.081	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Sodium	**49.7**	**J**	90.5	41.4	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Vanadium	**7.4**		1.8	0.19	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1
Zinc	**4.2**	**J**	7.2	2.8	mg/Kg	☼	01/28/25 06:02	01/28/25 14:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0078	U	0.017	0.0078	mg/Kg	☼	01/27/25 01:13	01/27/25 05:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.21	0.11	mg/Kg	☼	01/28/25 09:12	01/28/25 12:25	1
Percent Moisture (EPA Moisture)	**4.0**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**96.0**		1.0	1.0	%			01/22/25 19:13	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: IA-04-TS
Date Collected: 01/22/25 09:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-4
Matrix: Solid
Percent Solids: 90.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,1,2,2-Tetrachloroethane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,1,2-Trichloroethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,1-Dichloroethane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,1-Dichloroethene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,2,3-Trichlorobenzene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,2,4-Trichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,2-Dibromo-3-Chloropropane	0.00053	U H	0.0011	0.00053	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,2-Dibromoethane	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,2-Dichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,2-Dichloroethane	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,2-Dichloropropane	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,3-Dichlorobenzene	0.00042	U H	0.0011	0.00042	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
1,4-Dichlorobenzene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
2-Butanone (MEK)	0.00042	U H	0.0057	0.00042	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
2-Hexanone	0.0020	U H	0.0057	0.0020	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
4-Methyl-2-pentanone (MIBK)	0.0018	U H	0.0057	0.0018	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Acetone	0.0065	U H	0.0069	0.0065	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Benzene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Bromodichloromethane	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Bromoform	0.00049	U H	0.0011	0.00049	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Bromomethane	0.0011	U H *+	0.0023	0.0011	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Carbon disulfide	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Carbon tetrachloride	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Chlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Chlorobromomethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Chloroethane	0.00060	U H	0.0011	0.00060	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Chloroform	0.0011	U H	0.0011	0.0011	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Chloromethane	0.00050	U H	0.0011	0.00050	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
cis-1,2-Dichloroethene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
cis-1,3-Dichloropropene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Cyclohexane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Dibromochloromethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Dichlorodifluoromethane	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Ethylbenzene	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Isopropylbenzene	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Methyl acetate	0.0049	U H	0.0057	0.0049	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Methyl tert-butyl ether	0.00059	U H	0.0011	0.00059	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Methylcyclohexane	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Methylene Chloride	0.0013	U H	0.0023	0.0013	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
m-Xylene & p-Xylene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
o-Xylene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Styrene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Tetrachloroethene	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Toluene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
trans-1,2-Dichloroethene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
trans-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Trichloroethene	0.00037	U H	0.0011	0.00037	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1

Client Sample ID: IA-04-TS
Date Collected: 01/22/25 09:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-4
Matrix: Solid
Percent Solids: 90.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1
Vinyl chloride	0.00063	U H	0.0011	0.00063	mg/Kg	☼	01/23/25 05:47	03/04/25 16:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 05:47*	*03/04/25 16:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 138*	*01/23/25 05:47*	*03/04/25 16:51*	*1*
4-Bromofluorobenzene	*107*		*71 - 128*	*01/23/25 05:47*	*03/04/25 16:51*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*01/23/25 05:47*	*03/04/25 16:51*	*1*
Toluene-d8 (Surr)	*111*		*71 - 126*	*01/23/25 05:47*	*03/04/25 16:51*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
1,2,4-Trichlorobenzene	0.0094	U H	0.036	0.0094	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
1,2-Dichlorobenzene	0.0062	U H	0.36	0.0062	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
1,2-Diphenylhydrazine	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
1,3-Dichlorobenzene	0.011	U H	0.36	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
1,4-Dichlorobenzene	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2,4,5-Trichlorophenol	0.037	U H	0.36	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2,4,6-Trichlorophenol	0.047	U H	0.15	0.047	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2,4-Dichlorophenol	0.023	U H	0.15	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2,4-Dimethylphenol	0.043	U H	0.36	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2,4-Dinitrophenol	0.18	U H	0.29	0.18	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2,4-Dinitrotoluene	0.039	U H	0.074	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2,6-Dinitrotoluene	0.026	U H	0.074	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2-Chloronaphthalene	0.017	U H	0.36	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2-Chlorophenol	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2-Methylnaphthalene	0.010	U H	0.36	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2-Methylphenol	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2-Nitroaniline	0.028	U H	0.36	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
2-Nitrophenol	0.036	U H	0.36	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
3,3'-Dichlorobenzidine	0.055	U H	0.15	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
3-Nitroaniline	0.086	U H	0.36	0.086	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
4,6-Dinitro-2-methylphenol	0.15	U H	0.29	0.15	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
4-Bromophenyl phenyl ether	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
4-Chloro-3-methylphenol	0.020	U H	0.36	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
4-Chloroaniline	0.065	U H	0.36	0.065	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
4-Chlorophenyl phenyl ether	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
4-Methylphenol	0.023	U H	0.36	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
4-Nitroaniline	0.042	U H	0.36	0.042	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
4-Nitrophenol	0.059	U H	0.74	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Acenaphthene	0.010	U H	0.36	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Acenaphthylene	0.010	U H	0.36	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Acetophenone	0.018	U H	0.36	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Anthracene	0.011	U H	0.36	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Atrazine	0.021	U H *+	0.15	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Benzaldehyde	0.060	U H	0.36	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Benzidine	0.076	U H	0.36	0.076	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1

Client Sample ID: IA-04-TS

Date Collected: 01/22/25 09:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-4

Matrix: Solid
Percent Solids: 90.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.027	U H	0.036	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Benzo[a]pyrene	**0.029**	**J H**	0.036	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Benzo[b]fluoranthene	**0.053**	**H**	0.036	0.0094	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Benzo[g,h,i]perylene	**0.031**	**J H**	0.36	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Benzo[k]fluoranthene	**0.015**	**J H**	0.036	0.0071	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
bis (2-chloroisopropyl) ether	0.022	U H	0.36	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Bis(2-chloroethoxy)methane	0.028	U H	0.36	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Bis(2-chloroethyl)ether	0.013	U H	0.036	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Bis(2-ethylhexyl) phthalate	0.019	U H	0.36	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Butyl benzyl phthalate	0.017	U H	0.36	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Caprolactam	0.057	U H	0.36	0.057	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Carbazole	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Chrysene	**0.038**	**J H**	0.36	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Dibenz(a,h)anthracene	0.016	U H	0.036	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Dibenzofuran	0.012	U H	0.36	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Diethyl phthalate	0.012	U H	0.36	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Dimethyl phthalate	0.083	U H	0.36	0.083	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Di-n-butyl phthalate	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Di-n-octyl phthalate	0.019	U H	0.36	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Fluoranthene	**0.036**	**J H**	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Fluorene	0.011	U H	0.36	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Hexachlorobenzene	0.017	U H	0.036	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Hexachlorobutadiene	0.0078	U H	0.074	0.0078	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Hexachlorocyclopentadiene	0.032	U H *+	0.36	0.032	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Hexachloroethane	0.013	U H	0.036	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Indeno[1,2,3-cd]pyrene	**0.021**	**J H**	0.036	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Isophorone	0.11	U H	0.15	0.11	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Naphthalene	0.0063	U H	0.36	0.0063	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Nitrobenzene	0.020	U H	0.036	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
N-Nitrosodimethylamine	0.034	U H	0.36	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
N-Nitrosodi-n-propylamine	0.026	U H	0.036	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
N-Nitrosodiphenylamine	0.030	U H	0.36	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Pentachlorophenol	0.075	U H	0.29	0.075	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Phenanthrene	**0.017**	**J H**	0.36	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Phenol	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1
Pyrene	**0.033**	**J H**	0.36	0.0091	mg/Kg	☼	03/04/25 08:39	03/04/25 22:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
9-Hexadecenoic acid	*0.30*	*H J N*	*mg/Kg*	☼	*7.37*	*2091-29-4*	*03/04/25 08:39*	*03/04/25 22:11*	*1*
n-Hexadecanoic acid	*0.40*	*H J N*	*mg/Kg*	☼	*7.41*	*57-10-3*	*03/04/25 08:39*	*03/04/25 22:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*24 - 137*	*03/04/25 08:39*	*03/04/25 22:11*	*1*
2-Fluorobiphenyl	*84*		*38 - 128*	*03/04/25 08:39*	*03/04/25 22:11*	*1*
2-Fluorophenol (Surr)	*81*		*31 - 133*	*03/04/25 08:39*	*03/04/25 22:11*	*1*
Nitrobenzene-d5 (Surr)	*83*		*31 - 120*	*03/04/25 08:39*	*03/04/25 22:11*	*1*
Phenol-d5 (Surr)	*81*		*35 - 132*	*03/04/25 08:39*	*03/04/25 22:11*	*1*
Terphenyl-d14 (Surr)	*84*		*44 - 147*	*03/04/25 08:39*	*03/04/25 22:11*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: IA-04-TS
Date Collected: 01/22/25 09:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-4
Matrix: Solid
Percent Solids: 90.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0013	U H	0.0074	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
4,4'-DDE	0.00087	U H	0.0074	0.00087	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
4,4'-DDT	0.0014	U H	0.0074	0.0014	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Aldrin	0.0011	U H	0.0074	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
alpha-BHC	0.00075	U H	0.0022	0.00075	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
beta-BHC	0.00083	U H	0.0022	0.00083	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
delta-BHC	0.00045	U H	0.0022	0.00045	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Dieldrin	0.00096	U H	0.0022	0.00096	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Endosulfan I	0.0011	U H	0.0074	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Endosulfan II	0.0019	U H	0.0074	0.0019	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Endosulfan sulfate	0.00093	U H	0.0074	0.00093	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Endrin	0.0011	U H	0.0074	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Endrin aldehyde	0.0017	U H	0.0074	0.0017	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Endrin ketone	0.0014	U H	0.0074	0.0014	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
gamma-BHC (Lindane)	0.00068	U H	0.0022	0.00068	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Heptachlor	0.00087	U H	0.0074	0.00087	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Heptachlor epoxide	0.0011	U H	0.0074	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Methoxychlor	0.0017	U H	0.0074	0.0017	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Toxaphene	0.027	U H	0.074	0.027	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1
Chlordane (n.o.s.)	0.018	U H	0.074	0.018	mg/Kg	☼	03/05/25 10:29	03/05/25 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*17 - 150*	*03/05/25 10:29*	*03/05/25 21:31*	*1*
DCB Decachlorobiphenyl	*41*		*17 - 150*	*03/05/25 10:29*	*03/05/25 21:31*	*1*
Tetrachloro-m-xylene	*62*		*21 - 150*	*03/05/25 10:29*	*03/05/25 21:31*	*1*
Tetrachloro-m-xylene	*59*		*21 - 150*	*03/05/25 10:29*	*03/05/25 21:31*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Aroclor 1221	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Aroclor 1232	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Aroclor 1242	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Aroclor 1248	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Aroclor 1254	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Aroclor 1260	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Aroclor-1262	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Aroclor 1268	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1
Polychlorinated biphenyls, Total	0.020	U	0.074	0.020	mg/Kg	☼	03/05/25 10:34	03/05/25 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:24*	*1*
DCB Decachlorobiphenyl	*64*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:24*	*1*
Tetrachloro-m-xylene	*88*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:24*	*1*
Tetrachloro-m-xylene	*86*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:24*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**14**		2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Client Sample ID: IA-04-TS
Date Collected: 01/22/25 09:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-4
Matrix: Solid
Percent Solids: 90.6

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	**14**		2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.2	U H	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:12	1
C9-C12 Aliphatics	3.3	U H	3.3	3.3	mg/Kg	☼	03/05/25 10:24	03/05/25 22:12	1
C16-C21 Aliphatics	2.2	U H	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:12	1
C21-C40 Aliphatics	7.7	U H	7.7	7.7	mg/Kg	☼	03/05/25 10:24	03/05/25 22:12	1
C16-C21 Aromatics	5.5	U H	5.5	5.5	mg/Kg	☼	03/05/25 10:24	03/05/25 22:12	1
C10-C12 Aromatics	**4.4**	**H**	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:12	1
C12-C16 Aromatics	3.3	U H	3.3	3.3	mg/Kg	☼	03/05/25 10:24	03/05/25 22:12	1
C21-C36 Aromatic	**9.2**	**H**	8.8	8.8	mg/Kg	☼	03/05/25 10:24	03/05/25 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*51*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:12*	*1*
2-Fluorobiphenyl	*86*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:12*	*1*
2-Bromonaphthalene	*78*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:12*	*1*
1-Chlorooctadecane	*45*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:12*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3910**		20.1	5.5	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Antimony	0.15	U	1.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Arsenic	**1.2**		1.0	0.10	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Barium	**8.9**		2.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Beryllium	**0.071**	**J**	0.40	0.057	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Cadmium	0.11	U	1.0	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Calcium	**1780**		100	40.8	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Chromium	**6.9**		2.0	0.91	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Cobalt	**1.1**	**J**	2.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Copper	**5.5**		2.0	0.37	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Iron	**5480**		60.2	20.3	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Lead	**7.1**		0.60	0.20	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Magnesium	**522**		100	10.2	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Manganese	**33.5**		4.0	0.40	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Nickel	**3.0**		2.0	0.47	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Potassium	**203**		100	16.3	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Selenium	**0.16**	**J**	1.3	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Silver	0.089	U	0.40	0.089	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Sodium	**1410**		100	45.8	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Thallium	0.041	U	0.40	0.041	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Vanadium	**8.9**		2.0	0.21	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1
Zinc	**16.8**		8.0	3.1	mg/Kg	☼	03/05/25 07:28	03/05/25 18:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**	**H**	0.019	0.0088	mg/Kg	☼	03/05/25 01:20	03/05/25 06:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.23	0.12	mg/Kg	☼	03/06/25 10:06	03/06/25 13:20	1

Client Sample ID: IA-04-TS

Date Collected: 01/22/25 09:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-4

Matrix: Solid
Percent Solids: 90.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.4		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	90.6		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: IA-04-CS-4

Date Collected: 01/22/25 09:15
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-5

Matrix: Solid
Percent Solids: 93.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,1,2,2-Tetrachloroethane	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,1,2-Trichloroethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,1-Dichloroethane	0.00025	U H	0.0012	0.00025	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,1-Dichloroethene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,2,3-Trichlorobenzene	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,2,4-Trichlorobenzene	0.00043	U H	0.0012	0.00043	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,2-Dibromo-3-Chloropropane	0.00055	U H	0.0012	0.00055	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,2-Dibromoethane	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,2-Dichlorobenzene	0.00044	U H	0.0012	0.00044	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,2-Dichloroethane	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,2-Dichloropropane	0.00051	U H	0.0012	0.00051	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,3-Dichlorobenzene	0.00044	U H	0.0012	0.00044	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
1,4-Dichlorobenzene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
2-Butanone (MEK)	0.00044	U H	0.0060	0.00044	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
2-Hexanone	0.0021	U H	0.0060	0.0021	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
4-Methyl-2-pentanone (MIBK)	0.0019	U H	0.0060	0.0019	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Acetone	0.0069	U H	0.0072	0.0069	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Benzene	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Bromodichloromethane	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Bromoform	0.00051	U H	0.0012	0.00051	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Bromomethane	0.0012	U H *+	0.0024	0.0012	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Carbon disulfide	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Carbon tetrachloride	0.00047	U H	0.0012	0.00047	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Chlorobenzene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Chlorobromomethane	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Chloroethane	0.00063	U H	0.0012	0.00063	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Chloroform	0.0012	U H	0.0012	0.0012	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Chloromethane	0.00052	U H	0.0012	0.00052	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
cis-1,2-Dichloroethene	0.00043	U H	0.0012	0.00043	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
cis-1,3-Dichloropropene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Cyclohexane	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Dibromochloromethane	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Dichlorodifluoromethane	0.00041	U H	0.0012	0.00041	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Ethylbenzene	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Isopropylbenzene	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Methyl acetate	0.0052	U H	0.0060	0.0052	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Methyl tert-butyl ether	0.00062	U H	0.0012	0.00062	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Methylcyclohexane	0.00060	U H	0.0012	0.00060	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Methylene Chloride	0.0014	U H	0.0024	0.0014	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1

Client Sample ID: IA-04-CS-4
Date Collected: 01/22/25 09:15
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-5
Matrix: Solid
Percent Solids: 93.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
o-Xylene	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Styrene	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Tetrachloroethene	0.00037	U H	0.0012	0.00037	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Toluene	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
trans-1,2-Dichloroethene	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
trans-1,3-Dichloropropene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Trichloroethene	0.00039	U H	0.0012	0.00039	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Trichlorofluoromethane	0.00049	U H	0.0012	0.00049	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1
Vinyl chloride	0.00066	U H	0.0012	0.00066	mg/Kg	☼	01/23/25 05:49	03/04/25 17:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 05:49*	*03/04/25 17:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 138*	*01/23/25 05:49*	*03/04/25 17:14*	*1*
4-Bromofluorobenzene	*102*		*71 - 128*	*01/23/25 05:49*	*03/04/25 17:14*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 150*	*01/23/25 05:49*	*03/04/25 17:14*	*1*
Toluene-d8 (Surr)	*106*		*71 - 126*	*01/23/25 05:49*	*03/04/25 17:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
1,2,4-Trichlorobenzene	0.0091	U H	0.035	0.0091	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
1,2-Dichlorobenzene	0.0060	U H	0.35	0.0060	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
1,2-Diphenylhydrazine	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
1,3-Dichlorobenzene	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
1,4-Dichlorobenzene	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2,4,5-Trichlorophenol	0.036	U H	0.35	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2,4,6-Trichlorophenol	0.045	U H	0.14	0.045	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2,4-Dichlorophenol	0.023	U H	0.14	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2,4-Dimethylphenol	0.042	U H	0.35	0.042	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2,4-Dinitrophenol	0.17	U H	0.28	0.17	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2,4-Dinitrotoluene	0.038	U H	0.071	0.038	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2,6-Dinitrotoluene	0.025	U H	0.071	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2-Chloronaphthalene	0.016	U H	0.35	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2-Chlorophenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2-Methylnaphthalene	0.0099	U H	0.35	0.0099	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2-Methylphenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2-Nitroaniline	0.027	U H	0.35	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
2-Nitrophenol	0.035	U H	0.35	0.035	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
3,3'-Dichlorobenzidine	0.053	U H	0.14	0.053	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
3-Nitroaniline	0.084	U H	0.35	0.084	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.28	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
4-Bromophenyl phenyl ether	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
4-Chloro-3-methylphenol	0.020	U H	0.35	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
4-Chloroaniline	0.063	U H	0.35	0.063	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
4-Chlorophenyl phenyl ether	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
4-Methylphenol	0.022	U H	0.35	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
4-Nitroaniline	0.040	U H	0.35	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1

Client Sample ID: IA-04-CS-4
Date Collected: 01/22/25 09:15
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-5
Matrix: Solid
Percent Solids: 93.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.057	U H	0.71	0.057	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Acenaphthene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Acenaphthylene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Acetophenone	0.017	U H	0.35	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Anthracene	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Atrazine	0.021	U H *+	0.14	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Benzaldehyde	0.058	U H	0.35	0.058	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Benzidine	0.074	U H	0.35	0.074	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Benzo[a]anthracene	0.027	U H	0.035	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Benzo[a]pyrene	0.0094	U H	0.035	0.0094	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Benzo[b]fluoranthene	0.0091	U H	0.035	0.0091	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Benzo[g,h,i]perylene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Benzo[k]fluoranthene	0.0069	U H	0.035	0.0069	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
bis (2-chloroisopropyl) ether	0.021	U H	0.35	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Bis(2-chloroethoxy)methane	0.027	U H	0.35	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Bis(2-chloroethyl)ether	0.012	U H	0.035	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Bis(2-ethylhexyl) phthalate	0.019	U H	0.35	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Butyl benzyl phthalate	0.017	U H	0.35	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Caprolactam	0.055	U H	0.35	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Carbazole	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Chrysene	0.015	U H	0.35	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Dibenz(a,h)anthracene	0.015	U H	0.035	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Dibenzofuran	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Diethyl phthalate	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Dimethyl phthalate	0.080	U H	0.35	0.080	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Di-n-butyl phthalate	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Di-n-octyl phthalate	0.019	U H	0.35	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Fluoranthene	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Fluorene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Hexachlorobenzene	0.017	U H	0.035	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Hexachlorobutadiene	0.0075	U H	0.071	0.0075	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Hexachlorocyclopentadiene	0.031	U H *+	0.35	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Hexachloroethane	0.012	U H	0.035	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Indeno[1,2,3-cd]pyrene	0.014	U H	0.035	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Isophorone	0.10	U H	0.14	0.10	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Naphthalene	0.0061	U H	0.35	0.0061	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Nitrobenzene	0.020	U H	0.035	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
N-Nitrosodimethylamine	0.033	U H	0.35	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
N-Nitrosodi-n-propylamine	0.026	U H	0.035	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
N-Nitrosodiphenylamine	0.029	U H	0.35	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Pentachlorophenol	0.072	U H	0.28	0.072	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Phenanthrene	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Phenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1
Pyrene	0.0088	U H	0.35	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 17:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 17:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*24 - 137*	*03/04/25 08:39*	*03/04/25 17:04*	*1*

Client Sample ID: IA-04-CS-4

Date Collected: 01/22/25 09:15
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-5

Matrix: Solid
Percent Solids: 93.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		38 - 128	03/04/25 08:39	03/04/25 17:04	1
2-Fluorophenol (Surr)	79		31 - 133	03/04/25 08:39	03/04/25 17:04	1
Nitrobenzene-d5 (Surr)	76		31 - 120	03/04/25 08:39	03/04/25 17:04	1
Phenol-d5 (Surr)	72		35 - 132	03/04/25 08:39	03/04/25 17:04	1
Terphenyl-d14 (Surr)	79		44 - 147	03/04/25 08:39	03/04/25 17:04	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0071	0.0012	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
4,4'-DDE	0.00084	U H	0.0071	0.00084	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
4,4'-DDT	0.0013	U H	0.0071	0.0013	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Aldrin	0.0011	U H	0.0071	0.0011	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
alpha-BHC	0.00072	U H	0.0021	0.00072	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
beta-BHC	0.00080	U H	0.0021	0.00080	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
delta-BHC	0.00044	U H	0.0021	0.00044	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Dieldrin	0.00093	U H	0.0021	0.00093	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Endosulfan I	0.0011	U H	0.0071	0.0011	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Endosulfan II	0.0018	U H	0.0071	0.0018	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Endosulfan sulfate	0.00089	U H	0.0071	0.00089	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Endrin	0.0010	U H	0.0071	0.0010	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Endrin aldehyde	0.0017	U H	0.0071	0.0017	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Endrin ketone	0.0014	U H	0.0071	0.0014	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
gamma-BHC (Lindane)	0.00066	U H	0.0021	0.00066	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Heptachlor	0.00084	U H	0.0071	0.00084	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Heptachlor epoxide	0.0011	U H	0.0071	0.0011	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Methoxychlor	0.0016	U H	0.0071	0.0016	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Toxaphene	0.026	U H	0.071	0.026	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1
Chlordane (n.o.s.)	0.017	U H	0.071	0.017	mg/Kg	☼	03/05/25 10:29	03/06/25 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		17 - 150	03/05/25 10:29	03/06/25 06:32	1
DCB Decachlorobiphenyl	84		17 - 150	03/05/25 10:29	03/06/25 06:32	1
Tetrachloro-m-xylene	113		21 - 150	03/05/25 10:29	03/06/25 06:32	1
Tetrachloro-m-xylene	115		21 - 150	03/05/25 10:29	03/06/25 06:32	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Aroclor 1221	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Aroclor 1232	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Aroclor 1242	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Aroclor 1248	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Aroclor 1254	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Aroclor 1260	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Aroclor-1262	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Aroclor 1268	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1
Polychlorinated biphenyls, Total	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		20 - 150	03/05/25 10:34	03/05/25 21:41	1

Client Sample ID: IA-04-CS-4

Date Collected: 01/22/25 09:15
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-5

Matrix: Solid
Percent Solids: 93.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:41*	*1*
Tetrachloro-m-xylene	*114*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:41*	*1*
Tetrachloro-m-xylene	*112*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:41*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**13**		2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	**13**		2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 22:27	1
C9-C12 Aliphatics	3.2	U H	3.2	3.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:27	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 22:27	1
C21-C40 Aliphatics	7.4	U H	7.4	7.4	mg/Kg	☼	03/05/25 10:24	03/05/25 22:27	1
C16-C21 Aromatics	5.3	U H	5.3	5.3	mg/Kg	☼	03/05/25 10:24	03/05/25 22:27	1
C10-C12 Aromatics	**2.9**	**H**	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 22:27	1
C12-C16 Aromatics	3.2	U H	3.2	3.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:27	1
C21-C36 Aromatic	**10**	**H**	8.5	8.5	mg/Kg	☼	03/05/25 10:24	03/05/25 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:27*	*1*
2-Fluorobiphenyl	*82*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:27*	*1*
2-Bromonaphthalene	*79*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:27*	*1*
1-Chlorooctadecane	*51*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:27*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6930**		18.9	5.2	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Arsenic	**0.85**	**J**	0.94	0.097	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Barium	**6.6**		1.9	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Beryllium	**0.068**	**J**	0.38	0.054	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Calcium	**133**		94.3	38.4	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Chromium	**7.3**		1.9	0.86	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Cobalt	**0.34**	**J**	1.9	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Copper	**4.1**		1.9	0.35	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Iron	**2980**		56.6	19.0	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Lead	**2.5**		0.57	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Magnesium	**96.3**		94.3	9.6	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Manganese	**3.5**	**J**	3.8	0.38	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Nickel	**2.1**		1.9	0.44	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Potassium	**205**		94.3	15.3	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Silver	0.084	U	0.38	0.084	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Sodium	**135**		94.3	43.1	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1
Vanadium	**7.2**		1.9	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1

Client Sample ID: IA-04-CS-4

Date Collected: 01/22/25 09:15
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-5

Matrix: Solid
Percent Solids: 93.8

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**4.9**	**J**	7.5	2.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**H**	0.017	0.0080	mg/Kg	☼	03/05/25 01:20	03/05/25 06:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.24	0.13	mg/Kg	☼	03/06/25 10:06	03/06/25 13:21	1
Percent Moisture (EPA Moisture)	**6.2**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**93.8**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: IA-04-CS-8

Date Collected: 01/22/25 09:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-6

Matrix: Solid
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,1,2,2-Tetrachloroethane	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,1,2-Trichloroethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,1-Dichloroethane	0.00025	U H	0.0012	0.00025	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,1-Dichloroethene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,2,3-Trichlorobenzene	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,2,4-Trichlorobenzene	0.00043	U H	0.0012	0.00043	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,2-Dibromo-3-Chloropropane	0.00055	U H	0.0012	0.00055	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,2-Dibromoethane	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,2-Dichlorobenzene	0.00043	U H	0.0012	0.00043	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,2-Dichloroethane	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,2-Dichloropropane	0.00051	U H	0.0012	0.00051	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,3-Dichlorobenzene	0.00044	U H	0.0012	0.00044	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
1,4-Dichlorobenzene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
2-Butanone (MEK)	0.00044	U H	0.0060	0.00044	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
2-Hexanone	0.0021	U H	0.0060	0.0021	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
4-Methyl-2-pentanone (MIBK)	0.0019	U H	0.0060	0.0019	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Acetone	0.0069	U H	0.0072	0.0069	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Benzene	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Bromodichloromethane	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Bromoform	0.00051	U H	0.0012	0.00051	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Bromomethane	0.0012	U H *+	0.0024	0.0012	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Carbon disulfide	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Carbon tetrachloride	0.00046	U H	0.0012	0.00046	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Chlorobenzene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Chlorobromomethane	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Chloroethane	0.00063	U H	0.0012	0.00063	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Chloroform	0.0012	U H	0.0012	0.0012	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Chloromethane	0.00052	U H	0.0012	0.00052	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
cis-1,2-Dichloroethene	0.00043	U H	0.0012	0.00043	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
cis-1,3-Dichloropropene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1

Client Sample ID: IA-04-CS-8

Date Collected: 01/22/25 09:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-6

Matrix: Solid
Percent Solids: 91.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Dibromochloromethane	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Dichlorodifluoromethane	0.00041	U H	0.0012	0.00041	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Ethylbenzene	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Isopropylbenzene	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Methyl acetate	0.0052	U H	0.0060	0.0052	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Methyl tert-butyl ether	0.00061	U H	0.0012	0.00061	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Methylcyclohexane	0.00060	U H	0.0012	0.00060	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Methylene Chloride	0.0014	U H	0.0024	0.0014	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
m-Xylene & p-Xylene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
o-Xylene	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Styrene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Tetrachloroethene	0.00037	U H	0.0012	0.00037	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Toluene	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
trans-1,2-Dichloroethene	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
trans-1,3-Dichloropropene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Trichloroethene	0.00039	U H	0.0012	0.00039	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Trichlorofluoromethane	0.00049	U H	0.0012	0.00049	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1
Vinyl chloride	0.00066	U H	0.0012	0.00066	mg/Kg	☼	01/23/25 05:50	03/04/25 17:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 05:50*	*03/04/25 17:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*65 - 138*	*01/23/25 05:50*	*03/04/25 17:37*	*1*
4-Bromofluorobenzene	*105*		*71 - 128*	*01/23/25 05:50*	*03/04/25 17:37*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*01/23/25 05:50*	*03/04/25 17:37*	*1*
Toluene-d8 (Surr)	*107*		*71 - 126*	*01/23/25 05:50*	*03/04/25 17:37*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
1,2,4-Trichlorobenzene	0.0093	U H	0.036	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
1,2-Dichlorobenzene	0.0062	U H	0.36	0.0062	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
1,2-Diphenylhydrazine	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
1,3-Dichlorobenzene	0.011	U H	0.36	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
1,4-Dichlorobenzene	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2,4,5-Trichlorophenol	0.037	U H	0.36	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2,4,6-Trichlorophenol	0.046	U H	0.15	0.046	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2,4-Dichlorophenol	0.023	U H	0.15	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2,4-Dimethylphenol	0.043	U H	0.36	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2,4-Dinitrophenol	0.18	U H	0.29	0.18	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2,4-Dinitrotoluene	0.039	U H	0.073	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2,6-Dinitrotoluene	0.026	U H	0.073	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2-Chloronaphthalene	0.017	U H	0.36	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2-Chlorophenol	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2-Methylnaphthalene	0.010	U H	0.36	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2-Methylphenol	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2-Nitroaniline	0.028	U H	0.36	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
2-Nitrophenol	0.036	U H	0.36	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: IA-04-CS-8
Date Collected: 01/22/25 09:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-6
Matrix: Solid
Percent Solids: 91.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.055	U H	0.15	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
3-Nitroaniline	0.086	U H	0.36	0.086	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
4,6-Dinitro-2-methylphenol	0.15	U H	0.29	0.15	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
4-Bromophenyl phenyl ether	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
4-Chloro-3-methylphenol	0.020	U H	0.36	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
4-Chloroaniline	0.064	U H	0.36	0.064	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
4-Chlorophenyl phenyl ether	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
4-Methylphenol	0.023	U H	0.36	0.023	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
4-Nitroaniline	0.041	U H	0.36	0.041	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
4-Nitrophenol	0.059	U H	0.73	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Acenaphthene	0.010	U H	0.36	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Acenaphthylene	0.010	U H	0.36	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Acetophenone	0.018	U H	0.36	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Anthracene	0.011	U H	0.36	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Atrazine	0.021	U H *+	0.15	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Benzaldehyde	0.060	U H	0.36	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Benzidine	0.076	U H	0.36	0.076	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Benzo[a]anthracene	0.027	U H	0.036	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Benzo[a]pyrene	0.0096	U H	0.036	0.0096	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Benzo[b]fluoranthene	0.0093	U H	0.036	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Benzo[g,h,i]perylene	0.011	U H	0.36	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Benzo[k]fluoranthene	0.0071	U H	0.036	0.0071	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
bis (2-chloroisopropyl) ether	0.022	U H	0.36	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Bis(2-chloroethoxy)methane	0.028	U H	0.36	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Bis(2-chloroethyl)ether	0.013	U H	0.036	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Bis(2-ethylhexyl) phthalate	0.019	U H	0.36	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Butyl benzyl phthalate	0.017	U H	0.36	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Caprolactam	0.056	U H	0.36	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Carbazole	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Chrysene	0.015	U H	0.36	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Dibenz(a,h)anthracene	0.016	U H	0.036	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Dibenzofuran	0.012	U H	0.36	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Diethyl phthalate	0.012	U H	0.36	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Dimethyl phthalate	0.082	U H	0.36	0.082	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Di-n-butyl phthalate	0.014	U H	0.36	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Di-n-octyl phthalate	0.019	U H	0.36	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Fluoranthene	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Fluorene	0.011	U H	0.36	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Hexachlorobenzene	0.017	U H	0.036	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Hexachlorobutadiene	0.0077	U H	0.073	0.0077	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Hexachlorocyclopentadiene	0.032	U H *+	0.36	0.032	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Hexachloroethane	0.012	U H	0.036	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Indeno[1,2,3-cd]pyrene	0.014	U H	0.036	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Isophorone	0.10	U H	0.15	0.10	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Naphthalene	0.0062	U H	0.36	0.0062	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Nitrobenzene	0.020	U H	0.036	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
N-Nitrosodimethylamine	0.033	U H	0.36	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
N-Nitrosodi-n-propylamine	0.026	U H	0.036	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
N-Nitrosodiphenylamine	0.030	U H	0.36	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1

Client Sample ID: IA-04-CS-8
Date Collected: 01/22/25 09:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-6
Matrix: Solid
Percent Solids: 91.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.074	U H	0.29	0.074	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Phenanthrene	0.015	U H	0.36	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Phenol	0.013	U H	0.36	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1
Pyrene	0.0090	U H	0.36	0.0090	mg/Kg	☼	03/04/25 08:39	03/04/25 17:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 17:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*24 - 137*	*03/04/25 08:39*	*03/04/25 17:23*	*1*
2-Fluorobiphenyl	*80*		*38 - 128*	*03/04/25 08:39*	*03/04/25 17:23*	*1*
2-Fluorophenol (Surr)	*81*		*31 - 133*	*03/04/25 08:39*	*03/04/25 17:23*	*1*
Nitrobenzene-d5 (Surr)	*82*		*31 - 120*	*03/04/25 08:39*	*03/04/25 17:23*	*1*
Phenol-d5 (Surr)	*76*		*35 - 132*	*03/04/25 08:39*	*03/04/25 17:23*	*1*
Terphenyl-d14 (Surr)	*86*		*44 - 147*	*03/04/25 08:39*	*03/04/25 17:23*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0073	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
4,4'-DDE	0.00086	U H	0.0073	0.00086	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
4,4'-DDT	0.0013	U H	0.0073	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Aldrin	0.0011	U H	0.0073	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
alpha-BHC	0.00074	U H	0.0022	0.00074	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
beta-BHC	0.00082	U H	0.0022	0.00082	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
delta-BHC	0.00045	U H	0.0022	0.00045	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Dieldrin	0.00095	U H	0.0022	0.00095	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Endosulfan I	0.0011	U H	0.0073	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Endosulfan II	0.0019	U H	0.0073	0.0019	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Endosulfan sulfate	0.00092	U H	0.0073	0.00092	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Endrin	0.0011	U H	0.0073	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Endrin aldehyde	0.0017	U H	0.0073	0.0017	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Endrin ketone	0.0014	U H	0.0073	0.0014	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
gamma-BHC (Lindane)	0.00068	U H	0.0022	0.00068	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Heptachlor	0.00086	U H	0.0073	0.00086	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Heptachlor epoxide	0.0011	U H	0.0073	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Methoxychlor	0.0017	U H	0.0073	0.0017	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Toxaphene	0.026	U H	0.073	0.026	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1
Chlordane (n.o.s.)	0.018	U H	0.073	0.018	mg/Kg	☼	03/05/25 10:29	03/05/25 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*17 - 150*	*03/05/25 10:29*	*03/05/25 21:56*	*1*
DCB Decachlorobiphenyl	*52*		*17 - 150*	*03/05/25 10:29*	*03/05/25 21:56*	*1*
Tetrachloro-m-xylene	*74*		*21 - 150*	*03/05/25 10:29*	*03/05/25 21:56*	*1*
Tetrachloro-m-xylene	*72*		*21 - 150*	*03/05/25 10:29*	*03/05/25 21:56*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1
Aroclor 1221	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1
Aroclor 1232	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1
Aroclor 1242	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1

Client Sample ID: IA-04-CS-8
Date Collected: 01/22/25 09:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-6
Matrix: Solid
Percent Solids: 91.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1
Aroclor 1254	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1
Aroclor 1260	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1
Aroclor-1262	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1
Aroclor 1268	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1
Polychlorinated biphenyls, Total	0.019	U	0.073	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:58*	*1*
DCB Decachlorobiphenyl	*65*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:58*	*1*
Tetrachloro-m-xylene	*90*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:58*	*1*
Tetrachloro-m-xylene	*88*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:58*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.2	U H	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:43	1
C9-C12 Aliphatics	3.3	U H	3.3	3.3	mg/Kg	☼	03/05/25 10:24	03/05/25 22:43	1
C16-C21 Aliphatics	2.2	U H	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:43	1
C21-C40 Aliphatics	7.7	U H	7.7	7.7	mg/Kg	☼	03/05/25 10:24	03/05/25 22:43	1
C16-C21 Aromatics	5.5	U H	5.5	5.5	mg/Kg	☼	03/05/25 10:24	03/05/25 22:43	1
C10-C12 Aromatics	2.2	U H	2.2	2.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:43	1
C12-C16 Aromatics	3.3	U H	3.3	3.3	mg/Kg	☼	03/05/25 10:24	03/05/25 22:43	1
C21-C36 Aromatic	8.7	U H	8.7	8.7	mg/Kg	☼	03/05/25 10:24	03/05/25 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:43*	*1*
2-Fluorobiphenyl	*88*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:43*	*1*
2-Bromonaphthalene	*77*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:43*	*1*
1-Chlorooctadecane	*66*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:43*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1990**		20.1	5.5	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Antimony	0.15	U	1.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Arsenic	**0.37**	**J**	1.0	0.10	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Barium	**8.1**		2.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Beryllium	0.057	U	0.40	0.057	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Cadmium	0.11	U	1.0	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Calcium	**75.5**	**J**	100	40.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Chromium	**5.5**		2.0	0.91	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Cobalt	0.15	U	2.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Copper	**1.7**	**J**	2.0	0.37	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Iron	**912**		60.2	20.3	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Lead	**3.5**		0.60	0.20	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Magnesium	**52.8**	**J**	100	10.2	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1

Client Sample ID: IA-04-CS-8

Date Collected: 01/22/25 09:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-6

Matrix: Solid
Percent Solids: 91.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.1**	**J**	4.0	0.40	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Nickel	0.47	U	2.0	0.47	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Potassium	**246**		100	16.3	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Selenium	0.13	U	1.3	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Silver	0.089	U	0.40	0.089	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Sodium	45.9	U	100	45.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Thallium	0.041	U	0.40	0.041	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Vanadium	**5.9**		2.0	0.21	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1
Zinc	3.1	U	8.0	3.1	mg/Kg	☼	03/05/25 07:28	03/05/25 18:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0088	U H	0.019	0.0088	mg/Kg	☼	03/05/25 01:20	03/05/25 06:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.24	0.13	mg/Kg	☼	03/06/25 10:06	03/06/25 13:22	1
Percent Moisture (EPA Moisture)	**8.6**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**91.4**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: 2B-07-CS-4

Date Collected: 01/22/25 11:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-7

Matrix: Solid
Percent Solids: 98.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,1,2,2-Tetrachloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,1,2-Trichloroethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,1-Dichloroethane	0.00024	U	0.0012	0.00024	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,1-Dichloroethene	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,2,3-Trichlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,2,4-Trichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,2-Dibromo-3-Chloropropane	0.00054	U *-	0.0012	0.00054	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,2-Dibromoethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,2-Dichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,2-Dichloroethane	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,2-Dichloropropane	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,3-Dichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
1,4-Dichlorobenzene	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
2-Butanone (MEK)	0.00043	U	0.0059	0.00043	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
2-Hexanone	0.0020	U	0.0059	0.0020	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
4-Methyl-2-pentanone (MIBK)	0.0018	U	0.0059	0.0018	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Acetone	**0.069**		0.0071	0.0067	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Benzene	0.00030	U	0.0012	0.00030	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Bromodichloromethane	0.00030	U	0.0012	0.00030	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Bromoform	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Bromomethane	0.0012	U	0.0024	0.0012	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Carbon disulfide	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-07-CS-4
Date Collected: 01/22/25 11:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-7
Matrix: Solid
Percent Solids: 98.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00046	U	0.0012	0.00046	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Chlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Chlorobromomethane	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Chloroethane	0.00061	U	0.0012	0.00061	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Chloroform	0.0011	U	0.0012	0.0011	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Chloromethane	0.00051	U	0.0012	0.00051	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
cis-1,2-Dichloroethene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
cis-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Cyclohexane	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Dibromochloromethane	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Dichlorodifluoromethane	0.00040	U	0.0012	0.00040	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Ethylbenzene	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Isopropylbenzene	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Methyl acetate	0.0051	U	0.0059	0.0051	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Methyl tert-butyl ether	0.00060	U	0.0012	0.00060	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Methylcyclohexane	0.00059	U	0.0012	0.00059	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Methylene Chloride	0.0013	U	0.0024	0.0013	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
m-Xylene & p-Xylene	0.00020	U	0.0012	0.00020	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
o-Xylene	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Styrene	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Tetrachloroethene	0.00036	U	0.0012	0.00036	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Toluene	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
trans-1,2-Dichloroethene	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
trans-1,3-Dichloropropene	0.00031	U *-	0.0012	0.00031	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Trichloroethene	0.00038	U	0.0012	0.00038	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Trichlorofluoromethane	0.00048	U	0.0012	0.00048	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1
Vinyl chloride	0.00064	U	0.0012	0.00064	mg/Kg	☼	01/23/25 05:52	01/28/25 10:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/23/25 05:52*	*01/28/25 10:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*	*01/23/25 05:52*	*01/28/25 10:18*	*1*
4-Bromofluorobenzene	*94*		*71 - 128*	*01/23/25 05:52*	*01/28/25 10:18*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*	*01/23/25 05:52*	*01/28/25 10:18*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*	*01/23/25 05:52*	*01/28/25 10:18*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2,4-Dichlorophenol	0.022	U	0.13	0.022	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-07-CS-4
Date Collected: 01/22/25 11:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-7
Matrix: Solid
Percent Solids: 98.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2-Chloronaphthalene	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2-Methylnaphthalene	0.0094	U *-	0.33	0.0094	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
3-Nitroaniline	0.080	U	0.33	0.080	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
4-Chloroaniline	0.060	U	0.33	0.060	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
4-Nitroaniline	0.039	U	0.33	0.039	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Acenaphthene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Benzo[b]fluoranthene	0.0087	U	0.033	0.0087	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Dibenz(a,h)anthracene	0.015	U	0.033	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1

Client Sample ID: 2B-07-CS-4
Date Collected: 01/22/25 11:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-7
Matrix: Solid
Percent Solids: 98.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/23/25 22:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/23/25 22:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*24 - 137*	*01/23/25 09:13*	*01/23/25 22:02*	*1*
2-Fluorobiphenyl	*66*		*38 - 128*	*01/23/25 09:13*	*01/23/25 22:02*	*1*
2-Fluorophenol (Surr)	*60*		*31 - 133*	*01/23/25 09:13*	*01/23/25 22:02*	*1*
Nitrobenzene-d5 (Surr)	*61*		*31 - 120*	*01/23/25 09:13*	*01/23/25 22:02*	*1*
Phenol-d5 (Surr)	*62*		*35 - 132*	*01/23/25 09:13*	*01/23/25 22:02*	*1*
Terphenyl-d14 (Surr)	*65*		*44 - 147*	*01/23/25 09:13*	*01/23/25 22:02*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
4,4'-DDE	0.00081	U	0.0068	0.00081	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
4,4'-DDT	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Dieldrin	0.00089	U	0.0020	0.00089	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Endosulfan II	0.0018	U	0.0068	0.0018	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Endosulfan sulfate	0.00086	U	0.0068	0.00086	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Endrin	0.00098	U	0.0068	0.00098	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Heptachlor	0.00081	U	0.0068	0.00081	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1
Chlordane (n.o.s.)	0.017	U	0.068	0.017	mg/Kg	☼	01/25/25 18:28	01/27/25 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*122*		*17 - 150*	*01/25/25 18:28*	*01/27/25 08:08*	*1*
DCB Decachlorobiphenyl	*125*		*17 - 150*	*01/25/25 18:28*	*01/27/25 08:08*	*1*

Client Sample ID: 2B-07-CS-4

Date Collected: 01/22/25 11:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-7

Matrix: Solid
Percent Solids: 98.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*21 - 150*	*01/25/25 18:28*	*01/27/25 08:08*	*1*
Tetrachloro-m-xylene	*89*		*21 - 150*	*01/25/25 18:28*	*01/27/25 08:08*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:08*	*1*
DCB Decachlorobiphenyl	*104*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:08*	*1*
Tetrachloro-m-xylene	*80*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:08*	*1*
Tetrachloro-m-xylene	*78*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:08*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:16	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:16	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:16	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:16	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:30	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 12:30	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/24/25 17:31	01/25/25 12:30	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:30*	*1*
2-Fluorobiphenyl	*90*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:30*	*1*
2-Bromonaphthalene	*88*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:30*	*1*
1-Chlorooctadecane	*78*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:16*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1970**		18.9	5.2	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Arsenic	**0.25**	**J**	0.94	0.097	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1

Client Sample ID: 2B-07-CS-4

Lab Sample ID: 460-319165-7
Date Collected: 01/22/25 11:10
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 98.1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**2.2**		1.9	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Calcium	38.4	U	94.4	38.4	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Chromium	**2.6**		1.9	0.86	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Copper	**0.90**	**J**	1.9	0.35	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Iron	**929**		56.7	19.1	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Lead	**0.83**		0.57	0.19	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Magnesium	**23.8**	**J**	94.4	9.6	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Manganese	**1.4**	**J**	3.8	0.38	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Nickel	**1.1**	**J**	1.9	0.44	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Potassium	**27.1**	**J**	94.4	15.3	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Silver	0.084	U	0.38	0.084	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Sodium	43.2	U	94.4	43.2	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Vanadium	**2.8**		1.9	0.19	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1
Zinc	2.9	U	7.6	2.9	mg/Kg	☼	01/28/25 06:02	01/28/25 14:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0072	U	0.015	0.0072	mg/Kg	☼	01/27/25 01:13	01/27/25 05:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.21	0.12	mg/Kg	☼	01/28/25 09:12	01/28/25 12:26	1
Percent Moisture (EPA Moisture)	**1.9**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**98.1**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: 2B-07-CS-8

Lab Sample ID: 460-319165-8
Date Collected: 01/22/25 11:20
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 98.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00030	U	0.0013	0.00030	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,1,2,2-Tetrachloroethane	0.00028	U	0.0013	0.00028	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00039	U	0.0013	0.00039	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,1,2-Trichloroethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,1-Dichloroethane	0.00027	U	0.0013	0.00027	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,1-Dichloroethene	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,2,3-Trichlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,2,4-Trichlorobenzene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,2-Dibromo-3-Chloropropane	0.00059	U *-	0.0013	0.00059	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,2-Dibromoethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,2-Dichlorobenzene	0.00047	U	0.0013	0.00047	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,2-Dichloroethane	0.00038	U	0.0013	0.00038	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,2-Dichloropropane	0.00055	U	0.0013	0.00055	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
1,3-Dichlorobenzene	0.00047	U	0.0013	0.00047	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1

Client Sample ID: 2B-07-CS-8
Date Collected: 01/22/25 11:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-8
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
2-Butanone (MEK)	0.00047	U	0.0064	0.00047	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
2-Hexanone	0.0022	U	0.0064	0.0022	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
4-Methyl-2-pentanone (MIBK)	0.0020	U	0.0064	0.0020	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Acetone	**0.077**		0.0077	0.0074	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Benzene	0.00033	U	0.0013	0.00033	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Bromodichloromethane	0.00033	U	0.0013	0.00033	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Bromoform	0.00055	U	0.0013	0.00055	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Bromomethane	0.0013	U	0.0026	0.0013	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Carbon disulfide	0.00034	U	0.0013	0.00034	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Carbon tetrachloride	0.00050	U	0.0013	0.00050	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Chlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Chlorobromomethane	0.00036	U	0.0013	0.00036	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Chloroethane	0.00067	U	0.0013	0.00067	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Chloroform	0.0013	U	0.0013	0.0013	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Chloromethane	0.00056	U	0.0013	0.00056	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
cis-1,2-Dichloroethene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
cis-1,3-Dichloropropene	0.00035	U	0.0013	0.00035	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Cyclohexane	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Dibromochloromethane	0.00025	U	0.0013	0.00025	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Dichlorodifluoromethane	0.00044	U	0.0013	0.00044	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Ethylbenzene	0.00026	U	0.0013	0.00026	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Isopropylbenzene	0.00037	U	0.0013	0.00037	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Methyl acetate	0.0055	U	0.0064	0.0055	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Methyl tert-butyl ether	0.00066	U	0.0013	0.00066	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Methylcyclohexane	0.00064	U	0.0013	0.00064	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Methylene Chloride	0.0015	U	0.0026	0.0015	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
m-Xylene & p-Xylene	0.00022	U	0.0013	0.00022	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
o-Xylene	0.00025	U	0.0013	0.00025	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Styrene	0.00036	U	0.0013	0.00036	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Tetrachloroethene	0.00039	U	0.0013	0.00039	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Toluene	0.00030	U	0.0013	0.00030	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
trans-1,2-Dichloroethene	0.00032	U	0.0013	0.00032	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
trans-1,3-Dichloropropene	0.00034	U *-	0.0013	0.00034	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Trichloroethene	0.00041	U	0.0013	0.00041	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Trichlorofluoromethane	0.00052	U	0.0013	0.00052	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1
Vinyl chloride	0.00070	U	0.0013	0.00070	mg/Kg	☼	01/23/25 05:53	01/28/25 10:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/23/25 05:53*	*01/28/25 10:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 138*	*01/23/25 05:53*	*01/28/25 10:43*	*1*
4-Bromofluorobenzene	*93*		*71 - 128*	*01/23/25 05:53*	*01/28/25 10:43*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 150*	*01/23/25 05:53*	*01/28/25 10:43*	*1*
Toluene-d8 (Surr)	*93*		*71 - 126*	*01/23/25 05:53*	*01/28/25 10:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1

Client Sample ID: 2B-07-CS-8
Date Collected: 01/22/25 11:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-8
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2-Methylnaphthalene	0.0093	U *-	0.33	0.0093	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-07-CS-8
Date Collected: 01/22/25 11:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-8
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/23/25 22:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/23/25 22:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*24 - 137*	*01/23/25 09:13*	*01/23/25 22:22*	*1*
2-Fluorobiphenyl	*82*		*38 - 128*	*01/23/25 09:13*	*01/23/25 22:22*	*1*
2-Fluorophenol (Surr)	*73*		*31 - 133*	*01/23/25 09:13*	*01/23/25 22:22*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*	*01/23/25 09:13*	*01/23/25 22:22*	*1*
Phenol-d5 (Surr)	*77*		*35 - 132*	*01/23/25 09:13*	*01/23/25 22:22*	*1*
Terphenyl-d14 (Surr)	*84*		*44 - 147*	*01/23/25 09:13*	*01/23/25 22:22*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1

Client Sample ID: 2B-07-CS-8
Date Collected: 01/22/25 11:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-8
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:28	01/27/25 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*131*		*17 - 150*	*01/25/25 18:28*	*01/27/25 08:24*	*1*
DCB Decachlorobiphenyl	*117*		*17 - 150*	*01/25/25 18:28*	*01/27/25 08:24*	*1*
Tetrachloro-m-xylene	*104*		*21 - 150*	*01/25/25 18:28*	*01/27/25 08:24*	*1*
Tetrachloro-m-xylene	*105*		*21 - 150*	*01/25/25 18:28*	*01/27/25 08:24*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:25*	*1*
DCB Decachlorobiphenyl	*113*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:25*	*1*
Tetrachloro-m-xylene	*85*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:25*	*1*
Tetrachloro-m-xylene	*90*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:25*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:32	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:32	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:32	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:32	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:45	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 12:45	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/24/25 17:31	01/25/25 12:45	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/24/25 17:31	01/25/25 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:45*	*1*

Client Sample ID: 2B-07-CS-8

Lab Sample ID: 460-319165-8
Date Collected: 01/22/25 11:20
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 98.9

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:45*	*1*
2-Bromonaphthalene	*97*		*40 - 140*	*01/24/25 17:31*	*01/25/25 12:45*	*1*
1-Chlorooctadecane	*73*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:32*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1020**		18.4	5.0	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Arsenic	**0.18**	**J**	0.92	0.095	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Barium	**2.1**		1.8	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Calcium	37.4	U	91.9	37.4	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Chromium	**3.3**		1.8	0.83	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Cobalt	0.14	U	1.8	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Copper	**0.48**	**J**	1.8	0.34	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Iron	**370**		55.2	18.6	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Lead	**1.0**		0.55	0.18	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Magnesium	**15.4**	**J**	91.9	9.4	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Manganese	**0.96**	**J**	3.7	0.37	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Nickel	0.43	U	1.8	0.43	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Potassium	**83.8**	**J**	91.9	14.9	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Sodium	42.0	U	91.9	42.0	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Vanadium	**2.5**		1.8	0.19	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1
Zinc	2.8	U	7.4	2.8	mg/Kg	☼	01/28/25 06:02	01/28/25 14:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg	☼	01/27/25 01:13	01/27/25 05:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	01/28/25 09:12	01/28/25 12:27	1
Percent Moisture (EPA Moisture)	**1.1**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**98.9**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: 2B-05-CS-4

Lab Sample ID: 460-319165-9
Date Collected: 01/22/25 12:45
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 98.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00022	U H	0.00096	0.00022	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,1,2,2-Tetrachloroethane	0.00021	U H	0.00096	0.00021	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U H	0.00096	0.00029	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,1,2-Trichloroethane	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,1-Dichloroethane	0.00020	U H	0.00096	0.00020	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1

Client Sample ID: 2B-05-CS-4
Date Collected: 01/22/25 12:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-9
Matrix: Solid
Percent Solids: 98.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00022	U H	0.00096	0.00022	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,2,3-Trichlorobenzene	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,2,4-Trichlorobenzene	0.00034	U H	0.00096	0.00034	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,2-Dibromo-3-Chloropropane	0.00044	U H	0.00096	0.00044	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,2-Dibromoethane	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,2-Dichlorobenzene	0.00035	U H	0.00096	0.00035	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,2-Dichloroethane	0.00028	U H	0.00096	0.00028	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,2-Dichloropropane	0.00041	U H	0.00096	0.00041	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,3-Dichlorobenzene	0.00035	U H	0.00096	0.00035	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
1,4-Dichlorobenzene	0.00022	U H	0.00096	0.00022	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
2-Butanone (MEK)	0.00035	U H	0.0048	0.00035	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
2-Hexanone	0.0016	U H	0.0048	0.0016	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
4-Methyl-2-pentanone (MIBK)	0.0015	U H	0.0048	0.0015	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Acetone	0.0055	U H	0.0058	0.0055	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Benzene	0.00025	U H	0.00096	0.00025	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Bromodichloromethane	0.00025	U H	0.00096	0.00025	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Bromoform	0.00041	U H	0.00096	0.00041	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Bromomethane	0.00096	U H *+	0.0019	0.00096	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Carbon disulfide	0.00026	U H	0.00096	0.00026	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Carbon tetrachloride	0.00037	U H	0.00096	0.00037	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Chlorobenzene	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Chlorobromomethane	0.00027	U H	0.00096	0.00027	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Chloroethane	0.00050	U H	0.00096	0.00050	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Chloroform	0.00093	U H	0.00096	0.00093	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Chloromethane	0.00042	U H	0.00096	0.00042	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
cis-1,2-Dichloroethene	0.00034	U H	0.00096	0.00034	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
cis-1,3-Dichloropropene	0.00026	U H	0.00096	0.00026	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Cyclohexane	0.00021	U H	0.00096	0.00021	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Dibromochloromethane	0.00019	U H	0.00096	0.00019	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Dichlorodifluoromethane	0.00032	U H	0.00096	0.00032	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Ethylbenzene	0.00019	U H	0.00096	0.00019	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Isopropylbenzene	0.00027	U H	0.00096	0.00027	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Methyl acetate	0.0041	U H	0.0048	0.0041	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Methyl tert-butyl ether	0.00049	U H	0.00096	0.00049	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Methylcyclohexane	0.00048	U H	0.00096	0.00048	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Methylene Chloride	0.0011	U H	0.0019	0.0011	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
m-Xylene & p-Xylene	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
o-Xylene	0.00019	U H	0.00096	0.00019	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Styrene	0.00027	U H	0.00096	0.00027	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Tetrachloroethene	0.00029	U H	0.00096	0.00029	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Toluene	0.00022	U H	0.00096	0.00022	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
trans-1,2-Dichloroethene	0.00024	U H	0.00096	0.00024	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
trans-1,3-Dichloropropene	0.00026	U H	0.00096	0.00026	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Trichloroethene	0.00031	U H	0.00096	0.00031	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Trichlorofluoromethane	0.00039	U H	0.00096	0.00039	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1
Vinyl chloride	0.00052	U H	0.00096	0.00052	mg/Kg	☼	01/23/25 05:55	03/04/25 18:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 05:55*	*03/04/25 18:00*	*1*

Client Sample ID: 2B-05-CS-4
Date Collected: 01/22/25 12:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-9
Matrix: Solid
Percent Solids: 98.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*	*01/23/25 05:55*	*03/04/25 18:00*	*1*
4-Bromofluorobenzene	*103*		*71 - 128*	*01/23/25 05:55*	*03/04/25 18:00*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 150*	*01/23/25 05:55*	*03/04/25 18:00*	*1*
Toluene-d8 (Surr)	*107*		*71 - 126*	*01/23/25 05:55*	*03/04/25 18:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
1,2,4-Trichlorobenzene	0.0087	U H	0.034	0.0087	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
1,2-Dichlorobenzene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2,4,5-Trichlorophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2,4,6-Trichlorophenol	0.043	U H	0.14	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2,4-Dimethylphenol	0.040	U H	0.34	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2,4-Dinitrophenol	0.17	U H	0.27	0.17	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2,4-Dinitrotoluene	0.036	U H	0.068	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2,6-Dinitrotoluene	0.024	U H	0.068	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2-Methylnaphthalene	0.0094	U H	0.34	0.0094	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
3,3'-Dichlorobenzidine	0.051	U H	0.14	0.051	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
3-Nitroaniline	0.080	U H	0.34	0.080	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
4-Bromophenyl phenyl ether	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
4-Chloroaniline	0.060	U H	0.34	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
4-Nitrophenol	0.055	U H	0.68	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Acenaphthene	0.0096	U H	0.34	0.0096	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Acenaphthylene	0.0096	U H	0.34	0.0096	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Atrazine	0.020	U H *+	0.14	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Benzaldehyde	0.056	U H	0.34	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Benzidine	0.071	U H	0.34	0.071	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Benzo[a]anthracene	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Benzo[a]pyrene	0.0090	U H	0.034	0.0090	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Benzo[b]fluoranthene	0.0087	U H	0.034	0.0087	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Benzo[g,h,i]perylene	0.0099	U H	0.34	0.0099	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Benzo[k]fluoranthene	0.0066	U H	0.034	0.0066	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
bis (2-chloroisopropyl) ether	0.020	U H	0.34	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Bis(2-chloroethoxy)methane	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1

Client Sample ID: 2B-05-CS-4
Date Collected: 01/22/25 12:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-9
Matrix: Solid
Percent Solids: 98.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Caprolactam	0.052	U H	0.34	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Dimethyl phthalate	0.077	U H	0.34	0.077	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Fluorene	0.0099	U H	0.34	0.0099	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Hexachlorobutadiene	0.0072	U H	0.068	0.0072	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Isophorone	0.097	U H	0.14	0.097	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Naphthalene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
N-Nitrosodimethylamine	0.031	U H	0.34	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
N-Nitrosodi-n-propylamine	0.024	U H	0.034	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Pentachlorophenol	0.069	U H	0.27	0.069	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Phenanthrene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Phenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1
Pyrene	0.0084	U H	0.34	0.0084	mg/Kg	☼	03/04/25 08:39	03/04/25 17:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 17:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*24 - 137*	*03/04/25 08:39*	*03/04/25 17:42*	*1*
2-Fluorobiphenyl	*83*		*38 - 128*	*03/04/25 08:39*	*03/04/25 17:42*	*1*
2-Fluorophenol (Surr)	*85*		*31 - 133*	*03/04/25 08:39*	*03/04/25 17:42*	*1*
Nitrobenzene-d5 (Surr)	*85*		*31 - 120*	*03/04/25 08:39*	*03/04/25 17:42*	*1*
Phenol-d5 (Surr)	*76*		*35 - 132*	*03/04/25 08:39*	*03/04/25 17:42*	*1*
Terphenyl-d14 (Surr)	*85*		*44 - 147*	*03/04/25 08:39*	*03/04/25 17:42*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
4,4'-DDE	0.00081	U H	0.0068	0.00081	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
4,4'-DDT	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
beta-BHC	0.00077	U H	0.0020	0.00077	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
delta-BHC	0.00042	U H	0.0020	0.00042	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1

Client Sample ID: 2B-05-CS-4

Date Collected: 01/22/25 12:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-9

Matrix: Solid
Percent Solids: 98.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.00089	U H	0.0020	0.00089	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Endosulfan II	0.0018	U H	0.0068	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Endosulfan sulfate	0.00086	U H	0.0068	0.00086	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Endrin	0.00098	U H	0.0068	0.00098	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
gamma-BHC (Lindane)	0.00063	U H	0.0020	0.00063	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Heptachlor	0.00081	U H	0.0068	0.00081	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Methoxychlor	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Toxaphene	0.025	U H	0.068	0.025	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1
Chlordane (n.o.s.)	0.017	U H	0.068	0.017	mg/Kg	☼	03/05/25 10:29	03/05/25 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*17 - 150*	*03/05/25 10:29*	*03/05/25 22:08*	*1*
DCB Decachlorobiphenyl	*54*		*17 - 150*	*03/05/25 10:29*	*03/05/25 22:08*	*1*
Tetrachloro-m-xylene	*76*		*21 - 150*	*03/05/25 10:29*	*03/05/25 22:08*	*1*
Tetrachloro-m-xylene	*73*		*21 - 150*	*03/05/25 10:29*	*03/05/25 22:08*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:14*	*1*
DCB Decachlorobiphenyl	*63*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:14*	*1*
Tetrachloro-m-xylene	*84*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:14*	*1*
Tetrachloro-m-xylene	*84*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:14*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 22:59	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/05/25 22:59	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 22:59	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/05/25 10:24	03/05/25 22:59	1

Client Sample ID: 2B-05-CS-4

Date Collected: 01/22/25 12:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-9

Matrix: Solid
Percent Solids: 98.0

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.1	U H	5.1	5.1	mg/Kg	☼	03/05/25 10:24	03/05/25 22:59	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 22:59	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/05/25 22:59	1
C21-C36 Aromatic	8.2	U H	8.2	8.2	mg/Kg	☼	03/05/25 10:24	03/05/25 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:59*	*1*
2-Fluorobiphenyl	*100*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:59*	*1*
2-Bromonaphthalene	*87*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:59*	*1*
1-Chlorooctadecane	*76*		*40 - 140*	*03/05/25 10:24*	*03/05/25 22:59*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3870**		18.7	5.1	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Arsenic	**0.58**	**J**	0.94	0.096	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Barium	**4.4**		1.9	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Calcium	38.1	U	93.6	38.1	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Chromium	**6.2**		1.9	0.85	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Cobalt	**0.20**	**J**	1.9	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Copper	**2.1**		1.9	0.34	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Iron	**1440**		56.2	18.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Lead	**2.5**		0.56	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Magnesium	**41.3**	**J**	93.6	9.5	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Manganese	**2.6**	**J**	3.7	0.38	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Nickel	**2.7**		1.9	0.44	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Potassium	**61.7**	**J**	93.6	15.2	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Silver	0.083	U	0.37	0.083	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Sodium	42.8	U	93.6	42.8	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Vanadium	**5.4**		1.9	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1
Zinc	2.9	U	7.5	2.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0079	U H	0.017	0.0079	mg/Kg	☼	03/05/25 01:20	03/05/25 06:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.21	0.12	mg/Kg	☼	03/06/25 10:06	03/06/25 13:23	1
Percent Moisture (EPA Moisture)	**2.0**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**98.0**		1.0	1.0	%			01/22/25 19:13	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-05-CS-8
Date Collected: 01/22/25 12:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-10
Matrix: Solid
Percent Solids: 95.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00034	U H	0.0014	0.00034	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,1,2,2-Tetrachloroethane	0.00031	U H	0.0014	0.00031	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00043	U H	0.0014	0.00043	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,1,2-Trichloroethane	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,1-Dichloroethane	0.00030	U H	0.0014	0.00030	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,1-Dichloroethene	0.00032	U H	0.0014	0.00032	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,2,3-Trichlorobenzene	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,2,4-Trichlorobenzene	0.00052	U H	0.0014	0.00052	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,2-Dibromo-3-Chloropropane	0.00066	U H	0.0014	0.00066	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,2-Dibromoethane	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,2-Dichlorobenzene	0.00052	U H	0.0014	0.00052	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,2-Dichloroethane	0.00043	U H	0.0014	0.00043	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,2-Dichloropropane	0.00061	U H	0.0014	0.00061	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,3-Dichlorobenzene	0.00053	U H	0.0014	0.00053	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
1,4-Dichlorobenzene	0.00032	U H	0.0014	0.00032	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
2-Butanone (MEK)	0.00053	U H	0.0072	0.00053	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
2-Hexanone	0.0025	U H	0.0072	0.0025	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
4-Methyl-2-pentanone (MIBK)	0.0022	U H	0.0072	0.0022	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Acetone	0.0083	U H	0.0087	0.0083	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Benzene	0.00037	U H	0.0014	0.00037	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Bromodichloromethane	0.00037	U H	0.0014	0.00037	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Bromoform	0.00061	U H	0.0014	0.00061	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Bromomethane	0.0014	U H *+	0.0029	0.0014	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Carbon disulfide	0.00038	U H	0.0014	0.00038	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Carbon tetrachloride	0.00056	U H	0.0014	0.00056	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Chlorobenzene	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Chlorobromomethane	0.00041	U H	0.0014	0.00041	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Chloroethane	0.00075	U H	0.0014	0.00075	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Chloroform	0.0014	U H	0.0014	0.0014	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Chloromethane	0.00063	U H	0.0014	0.00063	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
cis-1,2-Dichloroethene	0.00052	U H	0.0014	0.00052	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
cis-1,3-Dichloropropene	0.00039	U H	0.0014	0.00039	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Cyclohexane	0.00032	U H	0.0014	0.00032	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Dibromochloromethane	0.00028	U H	0.0014	0.00028	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Dichlorodifluoromethane	0.00049	U H	0.0014	0.00049	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Ethylbenzene	0.00029	U H	0.0014	0.00029	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Isopropylbenzene	0.00041	U H	0.0014	0.00041	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Methyl acetate	0.0062	U H	0.0072	0.0062	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Methyl tert-butyl ether	0.00074	U H	0.0014	0.00074	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Methylcyclohexane	0.00072	U H	0.0014	0.00072	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Methylene Chloride	0.0017	U H	0.0029	0.0017	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
m-Xylene & p-Xylene	0.00025	U H	0.0014	0.00025	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
o-Xylene	0.00028	U H	0.0014	0.00028	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Styrene	0.00040	U H	0.0014	0.00040	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Tetrachloroethene	0.00044	U H	0.0014	0.00044	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Toluene	0.00034	U H	0.0014	0.00034	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
trans-1,2-Dichloroethene	0.00036	U H	0.0014	0.00036	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
trans-1,3-Dichloropropene	0.00038	U H	0.0014	0.00038	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Trichloroethene	0.00046	U H	0.0014	0.00046	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1

Client Sample ID: 2B-05-CS-8
Date Collected: 01/22/25 12:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-10
Matrix: Solid
Percent Solids: 95.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00059	U H	0.0014	0.00059	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1
Vinyl chloride	0.00079	U H	0.0014	0.00079	mg/Kg	☼	01/23/25 05:57	03/04/25 18:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 05:57*	*03/04/25 18:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*	*01/23/25 05:57*	*03/04/25 18:23*	*1*
4-Bromofluorobenzene	*102*		*71 - 128*	*01/23/25 05:57*	*03/04/25 18:23*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 150*	*01/23/25 05:57*	*03/04/25 18:23*	*1*
Toluene-d8 (Surr)	*108*		*71 - 126*	*01/23/25 05:57*	*03/04/25 18:23*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
1,2,4-Trichlorobenzene	0.0089	U H	0.035	0.0089	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
1,2-Dichlorobenzene	0.0059	U H	0.35	0.0059	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
1,2-Diphenylhydrazine	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
1,3-Dichlorobenzene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
1,4-Dichlorobenzene	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2,4,5-Trichlorophenol	0.035	U H	0.35	0.035	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2,4,6-Trichlorophenol	0.044	U H	0.14	0.044	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2,4-Dimethylphenol	0.041	U H	0.35	0.041	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2,4-Dinitrophenol	0.17	U H	0.28	0.17	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2,4-Dinitrotoluene	0.037	U H	0.070	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2,6-Dinitrotoluene	0.025	U H	0.070	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2-Chloronaphthalene	0.016	U H	0.35	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2-Chlorophenol	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2-Methylnaphthalene	0.0097	U H	0.35	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2-Methylphenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2-Nitroaniline	0.026	U H	0.35	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
2-Nitrophenol	0.035	U H	0.35	0.035	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
3,3'-Dichlorobenzidine	0.052	U H	0.14	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
3-Nitroaniline	0.082	U H	0.35	0.082	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.28	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
4-Bromophenyl phenyl ether	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
4-Chloro-3-methylphenol	0.019	U H	0.35	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
4-Chloroaniline	0.061	U H	0.35	0.061	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
4-Chlorophenyl phenyl ether	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
4-Methylphenol	0.022	U H	0.35	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
4-Nitroaniline	0.040	U H	0.35	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
4-Nitrophenol	0.056	U H	0.70	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Acenaphthene	0.0099	U H	0.35	0.0099	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Acenaphthylene	0.0099	U H	0.35	0.0099	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Acetophenone	0.017	U H	0.35	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Anthracene	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Atrazine	0.020	U H *+	0.14	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Benzaldehyde	0.057	U H	0.35	0.057	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Benzidine	0.073	U H	0.35	0.073	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1

Client Sample ID: 2B-05-CS-8

Date Collected: 01/22/25 12:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-10

Matrix: Solid
Percent Solids: 95.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.026	U H	0.035	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Benzo[a]pyrene	0.0092	U H	0.035	0.0092	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Benzo[b]fluoranthene	0.0090	U H	0.035	0.0090	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Benzo[g,h,i]perylene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Benzo[k]fluoranthene	0.0068	U H	0.035	0.0068	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
bis (2-chloroisopropyl) ether	0.021	U H	0.35	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Bis(2-chloroethoxy)methane	0.027	U H	0.35	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Bis(2-chloroethyl)ether	0.012	U H	0.035	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.35	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Butyl benzyl phthalate	0.016	U H	0.35	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Caprolactam	0.054	U H	0.35	0.054	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Carbazole	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Chrysene	0.015	U H	0.35	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Dibenz(a,h)anthracene	0.015	U H	0.035	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Dibenzofuran	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Diethyl phthalate	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Dimethyl phthalate	0.079	U H	0.35	0.079	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Di-n-butyl phthalate	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Di-n-octyl phthalate	0.018	U H	0.35	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Fluoranthene	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Fluorene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Hexachlorobenzene	0.016	U H	0.035	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Hexachlorobutadiene	0.0074	U H	0.070	0.0074	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Hexachlorocyclopentadiene	0.030	U H *+	0.35	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Hexachloroethane	0.012	U H	0.035	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Indeno[1,2,3-cd]pyrene	0.014	U H	0.035	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Isophorone	0.10	U H	0.14	0.10	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Naphthalene	0.0060	U H	0.35	0.0060	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Nitrobenzene	0.019	U H	0.035	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
N-Nitrosodimethylamine	0.032	U H	0.35	0.032	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
N-Nitrosodi-n-propylamine	0.025	U H	0.035	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
N-Nitrosodiphenylamine	0.028	U H	0.35	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Pentachlorophenol	0.071	U H	0.28	0.071	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Phenanthrene	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Phenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1
Pyrene	0.0086	U H	0.35	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 15:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 15:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*24 - 137*	*03/04/25 08:39*	*03/04/25 15:08*	*1*
2-Fluorobiphenyl	*85*		*38 - 128*	*03/04/25 08:39*	*03/04/25 15:08*	*1*
2-Fluorophenol (Surr)	*83*		*31 - 133*	*03/04/25 08:39*	*03/04/25 15:08*	*1*
Nitrobenzene-d5 (Surr)	*87*		*31 - 120*	*03/04/25 08:39*	*03/04/25 15:08*	*1*
Phenol-d5 (Surr)	*79*		*35 - 132*	*03/04/25 08:39*	*03/04/25 15:08*	*1*
Terphenyl-d14 (Surr)	*85*		*44 - 147*	*03/04/25 08:39*	*03/04/25 15:08*	*1*

Client Sample ID: 2B-05-CS-8

Date Collected: 01/22/25 12:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-10

Matrix: Solid
Percent Solids: 95.4

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0070	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
4,4'-DDE	0.00083	U H	0.0070	0.00083	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
4,4'-DDT	0.0013	U H	0.0070	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Aldrin	0.0011	U H	0.0070	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
alpha-BHC	0.00071	U H	0.0021	0.00071	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
beta-BHC	0.00078	U H	0.0021	0.00078	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
delta-BHC	0.00043	U H	0.0021	0.00043	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Dieldrin	0.00091	U H	0.0021	0.00091	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Endosulfan I	0.0011	U H	0.0070	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Endosulfan II	0.0018	U H	0.0070	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Endosulfan sulfate	0.00088	U H	0.0070	0.00088	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Endrin	0.0010	U H	0.0070	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Endrin aldehyde	0.0017	U H	0.0070	0.0017	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Endrin ketone	0.0014	U H	0.0070	0.0014	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
gamma-BHC (Lindane)	0.00065	U H	0.0021	0.00065	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Heptachlor	0.00083	U H	0.0070	0.00083	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Heptachlor epoxide	0.0010	U H	0.0070	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Methoxychlor	0.0016	U H	0.0070	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Toxaphene	0.025	U H	0.070	0.025	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1
Chlordane (n.o.s.)	0.017	U H	0.070	0.017	mg/Kg	☼	03/05/25 10:29	03/05/25 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*		*17 - 150*	*03/05/25 10:29*	*03/05/25 22:20*	*1*
DCB Decachlorobiphenyl	*39*		*17 - 150*	*03/05/25 10:29*	*03/05/25 22:20*	*1*
Tetrachloro-m-xylene	*53*		*21 - 150*	*03/05/25 10:29*	*03/05/25 22:20*	*1*
Tetrachloro-m-xylene	*51*		*21 - 150*	*03/05/25 10:29*	*03/05/25 22:20*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1
Polychlorinated biphenyls, Total	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 10:34	03/05/25 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:31*	*1*
DCB Decachlorobiphenyl	*68*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:31*	*1*
Tetrachloro-m-xylene	*90*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:31*	*1*
Tetrachloro-m-xylene	*89*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:31*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Client Sample ID: 2B-05-CS-8

Date Collected: 01/22/25 12:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-10

Matrix: Solid
Percent Solids: 95.4

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:14	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:14	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:14	1
C21-C40 Aliphatics	7.3	U H	7.3	7.3	mg/Kg	☼	03/05/25 10:24	03/05/25 23:14	1
C16-C21 Aromatics	5.2	U H	5.2	5.2	mg/Kg	☼	03/05/25 10:24	03/05/25 23:14	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:14	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:14	1
C21-C36 Aromatic	8.4	U H	8.4	8.4	mg/Kg	☼	03/05/25 10:24	03/05/25 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:14*	*1*
2-Fluorobiphenyl	*91*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:14*	*1*
2-Bromonaphthalene	*80*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:14*	*1*
1-Chlorooctadecane	*70*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:14*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8790**		18.7	5.1	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Arsenic	**1.3**		0.94	0.096	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Barium	**17.1**		1.9	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Beryllium	**0.10**	**J**	0.37	0.053	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Calcium	38.1	U	93.6	38.1	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Chromium	**7.9**		1.9	0.85	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Cobalt	**0.56**	**J**	1.9	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Copper	**4.8**		1.9	0.34	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Iron	**2720**		56.1	18.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Lead	**2.5**		0.56	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Magnesium	**63.0**	**J**	93.6	9.5	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Manganese	**2.2**	**J**	3.7	0.38	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Nickel	**8.7**		1.9	0.44	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Potassium	**135**		93.6	15.2	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Silver	0.083	U	0.37	0.083	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Sodium	42.8	U	93.6	42.8	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Vanadium	**7.9**		1.9	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1
Zinc	2.9	U	7.5	2.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	U H	0.017	0.0081	mg/Kg	☼	03/05/25 01:20	03/05/25 06:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/06/25 10:06	03/06/25 13:24	1

Client Sample ID: 2B-05-CS-8

Date Collected: 01/22/25 12:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-10

Matrix: Solid
Percent Solids: 95.4

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.6		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	95.4		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: DUP-02

Date Collected: 01/22/25 12:02
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-11

Matrix: Solid
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,1,2,2-Tetrachloroethane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,1,2-Trichloroethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,1-Dichloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,1-Dichloroethene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,2,3-Trichlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,2,4-Trichlorobenzene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,2-Dibromo-3-Chloropropane	0.00051	U H	0.0011	0.00051	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,2-Dibromoethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,2-Dichlorobenzene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,2-Dichloroethane	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,2-Dichloropropane	0.00047	U H	0.0011	0.00047	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,3-Dichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
1,4-Dichlorobenzene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
2-Butanone (MEK)	0.00041	U H	0.0056	0.00041	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
2-Hexanone	0.0019	U H	0.0056	0.0019	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
4-Methyl-2-pentanone (MIBK)	0.0017	U H	0.0056	0.0017	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Acetone	0.0064	U H	0.0067	0.0064	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Benzene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Bromodichloromethane	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Bromoform	0.00047	U H	0.0011	0.00047	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Bromomethane	0.0011	U H *+	0.0022	0.0011	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Carbon disulfide	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Carbon tetrachloride	0.00043	U H	0.0011	0.00043	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Chlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Chlorobromomethane	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Chloroethane	0.00058	U H	0.0011	0.00058	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Chloroform	0.0011	U H	0.0011	0.0011	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Chloromethane	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
cis-1,2-Dichloroethene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
cis-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Cyclohexane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Dibromochloromethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Dichlorodifluoromethane	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Ethylbenzene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Isopropylbenzene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Methyl acetate	0.0048	U H	0.0056	0.0048	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Methyl tert-butyl ether	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Methylcyclohexane	0.00056	U H	0.0011	0.00056	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Methylene Chloride	0.0013	U H	0.0022	0.0013	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1

Client Sample ID: DUP-02
Date Collected: 01/22/25 12:02
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-11
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
o-Xylene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Styrene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Tetrachloroethene	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Toluene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
trans-1,2-Dichloroethene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
trans-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Trichloroethene	0.00036	U H	0.0011	0.00036	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Trichlorofluoromethane	0.00045	U H	0.0011	0.00045	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1
Vinyl chloride	0.00061	U H	0.0011	0.00061	mg/Kg	☼	01/23/25 05:58	03/04/25 18:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 05:58*	*03/04/25 18:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*	*01/23/25 05:58*	*03/04/25 18:46*	*1*
4-Bromofluorobenzene	*100*		*71 - 128*	*01/23/25 05:58*	*03/04/25 18:46*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*	*01/23/25 05:58*	*03/04/25 18:46*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*	*01/23/25 05:58*	*03/04/25 18:46*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
1,2,4-Trichlorobenzene	0.0087	U H	0.034	0.0087	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
1,2-Dichlorobenzene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2,4,5-Trichlorophenol	0.035	U H	0.34	0.035	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2,4,6-Trichlorophenol	0.044	U H	0.14	0.044	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2,4-Dimethylphenol	0.041	U H	0.34	0.041	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2,4-Dinitrophenol	0.17	U H	0.27	0.17	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2,4-Dinitrotoluene	0.037	U H	0.069	0.037	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2,6-Dinitrotoluene	0.025	U H	0.069	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2-Methylnaphthalene	0.0095	U H	0.34	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
3,3'-Dichlorobenzidine	0.051	U H	0.14	0.051	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
3-Nitroaniline	0.081	U H	0.34	0.081	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
4-Bromophenyl phenyl ether	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
4-Chloroaniline	0.060	U H	0.34	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1

Client Sample ID: DUP-02
Date Collected: 01/22/25 12:02
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-11
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.055	U H	0.69	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Acenaphthene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Acenaphthylene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Atrazine	0.020	U H *+	0.14	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Benzaldehyde	0.056	U H	0.34	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Benzidine	0.071	U H	0.34	0.071	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Benzo[a]anthracene	0.026	U H	0.034	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Benzo[a]pyrene	0.0090	U H	0.034	0.0090	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Benzo[b]fluoranthene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Benzo[g,h,i]perylene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Benzo[k]fluoranthene	0.0067	U H	0.034	0.0067	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
bis (2-chloroisopropyl) ether	0.020	U H	0.34	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Bis(2-chloroethoxy)methane	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Caprolactam	0.053	U H	0.34	0.053	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Dimethyl phthalate	0.077	U H	0.34	0.077	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Di-n-butyl phthalate	**0.034**	**J H**	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Fluorene	0.0099	U H	0.34	0.0099	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Hexachlorobutadiene	0.0072	U H	0.069	0.0072	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Isophorone	0.098	U H	0.14	0.098	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Naphthalene	0.0059	U H	0.34	0.0059	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
N-Nitrosodimethylamine	0.031	U H	0.34	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
N-Nitrosodi-n-propylamine	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Pentachlorophenol	0.070	U H	0.27	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Phenanthrene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Phenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1
Pyrene	0.0084	U H	0.34	0.0084	mg/Kg	☼	03/04/25 08:39	03/04/25 15:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 15:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*24 - 137*	*03/04/25 08:39*	*03/04/25 15:28*	*1*

Client Sample ID: DUP-02
Date Collected: 01/22/25 12:02
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-11
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		38 - 128	03/04/25 08:39	03/04/25 15:28	1
2-Fluorophenol (Surr)	79		31 - 133	03/04/25 08:39	03/04/25 15:28	1
Nitrobenzene-d5 (Surr)	72		31 - 120	03/04/25 08:39	03/04/25 15:28	1
Phenol-d5 (Surr)	73		35 - 132	03/04/25 08:39	03/04/25 15:28	1
Terphenyl-d14 (Surr)	85		44 - 147	03/04/25 08:39	03/04/25 15:28	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0069	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
4,4'-DDE	0.00081	U H	0.0069	0.00081	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
4,4'-DDT	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Aldrin	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
alpha-BHC	0.00070	U H	0.0021	0.00070	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
beta-BHC	0.00077	U H	0.0021	0.00077	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
delta-BHC	0.00042	U H	0.0021	0.00042	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Dieldrin	0.00089	U H	0.0021	0.00089	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Endosulfan I	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Endosulfan II	0.0018	U H	0.0069	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Endosulfan sulfate	0.00086	U H	0.0069	0.00086	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Endrin	0.00099	U H	0.0069	0.00099	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Endrin aldehyde	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Endrin ketone	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
gamma-BHC (Lindane)	0.00064	U H	0.0021	0.00064	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Heptachlor	0.00081	U H	0.0069	0.00081	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Heptachlor epoxide	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Methoxychlor	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Toxaphene	0.025	U H	0.069	0.025	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1
Chlordane (n.o.s.)	0.017	U H	0.069	0.017	mg/Kg	☼	03/05/25 10:29	03/05/25 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		17 - 150	03/05/25 10:29	03/05/25 22:32	1
DCB Decachlorobiphenyl	55		17 - 150	03/05/25 10:29	03/05/25 22:32	1
Tetrachloro-m-xylene	80		21 - 150	03/05/25 10:29	03/05/25 22:32	1
Tetrachloro-m-xylene	76		21 - 150	03/05/25 10:29	03/05/25 22:32	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Aroclor 1221	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Aroclor 1232	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Aroclor 1242	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Aroclor 1248	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Aroclor 1254	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Aroclor 1260	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Aroclor-1262	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Aroclor 1268	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1
Polychlorinated biphenyls, Total	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		20 - 150	03/05/25 10:34	03/05/25 22:48	1

Client Sample ID: DUP-02
Date Collected: 01/22/25 12:02
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-11
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*75*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:48*	*1*
Tetrachloro-m-xylene	*102*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:48*	*1*
Tetrachloro-m-xylene	*99*		*20 - 150*	*03/05/25 10:34*	*03/05/25 22:48*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:30	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:30	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:30	1
C21-C40 Aliphatics	7.2	U H	7.2	7.2	mg/Kg	☼	03/05/25 10:24	03/05/25 23:30	1
C16-C21 Aromatics	5.1	U H	5.1	5.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:30	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:30	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:30	1
C21-C36 Aromatic	8.2	U H	8.2	8.2	mg/Kg	☼	03/05/25 10:24	03/05/25 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*79*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:30*	*1*
2-Fluorobiphenyl	*89*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:30*	*1*
2-Bromonaphthalene	*80*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:30*	*1*
1-Chlorooctadecane	*75*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:30*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7310**		19.6	5.4	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Antimony	0.14	U	0.98	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Arsenic	**1.1**		0.98	0.10	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Barium	**15.0**		2.0	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Beryllium	**0.093**	**J**	0.39	0.056	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Cadmium	0.11	U	0.98	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Calcium	39.9	U	98.0	39.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Chromium	**7.2**		2.0	0.89	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Cobalt	**0.50**	**J**	2.0	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Copper	**4.1**		2.0	0.36	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Iron	**2230**		58.8	19.8	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Lead	**2.4**		0.59	0.20	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Magnesium	**56.1**	**J**	98.0	10	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Manganese	**2.1**	**J**	3.9	0.39	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Nickel	**7.8**		2.0	0.46	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Potassium	**122**		98.0	15.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Selenium	0.13	U	1.2	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Silver	0.087	U	0.39	0.087	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Sodium	44.8	U	98.0	44.8	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Thallium	0.040	U	0.39	0.040	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1
Vanadium	**6.8**		2.0	0.20	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1

Client Sample ID: DUP-02

Date Collected: 01/22/25 12:02
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-11
Matrix: Solid
Percent Solids: 97.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	3.0	U	7.8	3.0	mg/Kg	☼	03/05/25 07:28	03/05/25 18:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0096**	**J H**	0.016	0.0076	mg/Kg	☼	03/05/25 01:20	03/05/25 06:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.25	0.13	mg/Kg	☼	03/06/25 10:06	03/06/25 13:25	1
Percent Moisture (EPA Moisture)	**2.8**		1.0	1.0	%			01/22/25 20:28	1
Percent Solids (EPA Moisture)	**97.2**		1.0	1.0	%			01/22/25 20:28	1

Client Sample ID: 2B-03-TS

Date Collected: 01/22/25 13:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-12
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00030	U	0.0013	0.00030	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,1,2,2-Tetrachloroethane	0.00027	U	0.0013	0.00027	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00039	U	0.0013	0.00039	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,1,2-Trichloroethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,1-Dichloroethane	0.00026	U	0.0013	0.00026	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,1-Dichloroethene	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,2,3-Trichlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,2,4-Trichlorobenzene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,2-Dibromo-3-Chloropropane	0.00059	U *-	0.0013	0.00059	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,2-Dibromoethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,2-Dichlorobenzene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,2-Dichloroethane	0.00038	U	0.0013	0.00038	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,2-Dichloropropane	0.00054	U	0.0013	0.00054	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,3-Dichlorobenzene	0.00047	U	0.0013	0.00047	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
1,4-Dichlorobenzene	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
2-Butanone (MEK)	0.00047	U	0.0064	0.00047	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
2-Hexanone	0.0022	U	0.0064	0.0022	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
4-Methyl-2-pentanone (MIBK)	0.0020	U	0.0064	0.0020	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Acetone	**0.13**		0.0077	0.0073	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Benzene	0.00033	U	0.0013	0.00033	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Bromodichloromethane	0.00033	U	0.0013	0.00033	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Bromoform	0.00054	U	0.0013	0.00054	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Bromomethane	0.0013	U	0.0026	0.0013	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Carbon disulfide	0.00034	U	0.0013	0.00034	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Carbon tetrachloride	0.00050	U	0.0013	0.00050	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Chlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Chlorobromomethane	0.00036	U	0.0013	0.00036	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Chloroethane	0.00067	U	0.0013	0.00067	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Chloroform	0.0012	U	0.0013	0.0012	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Chloromethane	0.00056	U	0.0013	0.00056	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
cis-1,2-Dichloroethene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
cis-1,3-Dichloropropene	0.00035	U	0.0013	0.00035	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1

Client Sample ID: 2B-03-TS
Date Collected: 01/22/25 13:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-12
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00028	U	0.0013	0.00028	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Dibromochloromethane	0.00025	U	0.0013	0.00025	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Dichlorodifluoromethane	0.00043	U	0.0013	0.00043	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Ethylbenzene	0.00026	U	0.0013	0.00026	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Isopropylbenzene	0.00037	U	0.0013	0.00037	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Methyl acetate	0.0055	U	0.0064	0.0055	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Methyl tert-butyl ether	0.00066	U	0.0013	0.00066	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Methylcyclohexane	0.00064	U	0.0013	0.00064	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Methylene Chloride	0.0015	U	0.0026	0.0015	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
m-Xylene & p-Xylene	0.00022	U	0.0013	0.00022	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
o-Xylene	0.00025	U	0.0013	0.00025	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Styrene	0.00036	U	0.0013	0.00036	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Tetrachloroethene	0.00039	U	0.0013	0.00039	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Toluene	0.00030	U	0.0013	0.00030	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
trans-1,2-Dichloroethene	0.00032	U	0.0013	0.00032	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
trans-1,3-Dichloropropene	0.00034	U *-	0.0013	0.00034	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Trichloroethene	0.00041	U	0.0013	0.00041	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Trichlorofluoromethane	0.00052	U	0.0013	0.00052	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1
Vinyl chloride	0.00070	U	0.0013	0.00070	mg/Kg	☼	01/23/25 06:00	01/28/25 11:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/23/25 06:00*	*01/28/25 11:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 138*	*01/23/25 06:00*	*01/28/25 11:08*	*1*
4-Bromofluorobenzene	*96*		*71 - 128*	*01/23/25 06:00*	*01/28/25 11:08*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*	*01/23/25 06:00*	*01/28/25 11:08*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*	*01/23/25 06:00*	*01/28/25 11:08*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2-Methylnaphthalene	0.0093	U *-	0.33	0.0093	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1

Client Sample ID: 2B-03-TS
Date Collected: 01/22/25 13:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-12
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Benzo[b]fluoranthene	**0.0087**	**J**	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1

Client Sample ID: 2B-03-TS

Date Collected: 01/22/25 13:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-12

Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1
Pyrene	**0.0087**	**J**	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/24/25 02:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1R-.alpha.-Pinene	*0.75*	*J N*	*mg/Kg*	☼	*2.54*	*7785-70-8*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
n-Hexadecanoic acid	*0.31*	*J N*	*mg/Kg*	☼	*7.57*	*57-10-3*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.65*	*J N*	*mg/Kg*	☼	*9.25*	*1740-19-8*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
1-Nonadecanol	*0.40*	*J N*	*mg/Kg*	☼	*9.34*	*1454-84-8*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
1-Heneicosyl formate	*0.71*	*J N*	*mg/Kg*	☼	*10.01*	*77899-03-7*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
Olean-12-ene	*0.38*	*J N*	*mg/Kg*	☼	*11.44*	*471-68-1*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
2(3H)-Furanone, dihydro-3,4-bis[(4-hydroxy-3-methoxyphenyl)m	*0.31*	*J N*	*mg/Kg*	☼	*11.50*	*580-72-3*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
Unknown	*0.81*	*J*	*mg/Kg*	☼	*12.23*	*N/A*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
.gamma.-Sitosterol	*1.3*	*J N*	*mg/Kg*	☼	*12.47*	*83-47-6*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
Unknown	*0.30*	*J*	*mg/Kg*	☼	*12.64*	*N/A*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
Unknown	*0.27*	*J*	*mg/Kg*	☼	*13.31*	*N/A*	*01/23/25 09:13*	*01/24/25 02:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*24 - 137*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
2-Fluorobiphenyl	*66*		*38 - 128*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
2-Fluorophenol (Surr)	*59*		*31 - 133*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
Nitrobenzene-d5 (Surr)	*60*		*31 - 120*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
Phenol-d5 (Surr)	*60*		*35 - 132*	*01/23/25 09:13*	*01/24/25 02:11*	*1*
Terphenyl-d14 (Surr)	*65*		*44 - 147*	*01/23/25 09:13*	*01/24/25 02:11*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0068	0.0011	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:28	01/27/25 08:56	1

Client Sample ID: 2B-03-TS

Date Collected: 01/22/25 13:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-12

Matrix: Solid
Percent Solids: 99.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*17 - 150*	*01/25/25 18:28*	*01/27/25 08:56*	*1*
DCB Decachlorobiphenyl	*92*		*17 - 150*	*01/25/25 18:28*	*01/27/25 08:56*	*1*
Tetrachloro-m-xylene	*81*		*21 - 150*	*01/25/25 18:28*	*01/27/25 08:56*	*1*
Tetrachloro-m-xylene	*73*		*21 - 150*	*01/25/25 18:28*	*01/27/25 08:56*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:41*	*1*
DCB Decachlorobiphenyl	*76*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:41*	*1*
Tetrachloro-m-xylene	*66*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:41*	*1*
Tetrachloro-m-xylene	*65*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:41*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:47	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:47	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:47	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:47	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:01	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:01	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:01	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:01*	*1*
2-Fluorobiphenyl	*96*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:01*	*1*
2-Bromonaphthalene	*95*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:01*	*1*
1-Chlorooctadecane	*73*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:47*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**713**		18.3	5.0	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1

Client Sample ID: 2B-03-TS

Date Collected: 01/22/25 13:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-12

Matrix: Solid
Percent Solids: 99.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.41**	**J**	0.92	0.094	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Barium	**1.7**	**J**	1.8	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Calcium	37.3	U	91.6	37.3	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Chromium	**1.4**	**J**	1.8	0.83	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Cobalt	0.14	U	1.8	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Copper	**1.3**	**J**	1.8	0.34	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Iron	**513**		55.0	18.5	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Lead	**9.9**		0.55	0.18	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Magnesium	**16.2**	**J**	91.6	9.3	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Manganese	**2.0**	**J**	3.7	0.37	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Nickel	0.43	U	1.8	0.43	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Potassium	**20.6**	**J**	91.6	14.8	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Sodium	41.9	U	91.6	41.9	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Vanadium	**2.7**		1.8	0.19	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1
Zinc	2.8	U	7.3	2.8	mg/Kg	☼	01/28/25 06:02	01/28/25 14:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	U	0.017	0.0081	mg/Kg	☼	01/27/25 01:13	01/27/25 05:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.20	0.11	mg/Kg	☼	01/28/25 09:12	01/28/25 12:31	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**99.2**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: 2B-03-CS-4

Date Collected: 01/22/25 13:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-13

Matrix: Solid
Percent Solids: 96.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,2-Dibromo-3-Chloropropane	0.00048	U *-	0.0011	0.00048	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,2-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,2-Dichloroethane	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-03-CS-4

Date Collected: 01/22/25 13:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-13

Matrix: Solid
Percent Solids: 96.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
2-Butanone (MEK)	0.00039	U	0.0053	0.00039	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
2-Hexanone	0.0018	U	0.0053	0.0018	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0053	0.0016	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Acetone	**0.044**		0.0063	0.0060	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Benzene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Bromodichloromethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Bromomethane	0.0011	U	0.0021	0.0011	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Carbon disulfide	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Chlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Chloroethane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Chloromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Cyclohexane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Dibromochloromethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Methyl acetate	0.0045	U	0.0053	0.0045	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Methyl tert-butyl ether	0.00054	U	0.0011	0.00054	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Methylcyclohexane	0.00053	U	0.0011	0.00053	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
m-Xylene & p-Xylene	0.00018	U	0.0011	0.00018	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
o-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Styrene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Tetrachloroethene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
trans-1,3-Dichloropropene	0.00028	U *-	0.0011	0.00028	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1
Vinyl chloride	0.00057	U	0.0011	0.00057	mg/Kg	☼	01/23/25 06:02	01/28/25 11:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/23/25 06:02*	*01/28/25 11:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 138*	*01/23/25 06:02*	*01/28/25 11:33*	*1*
4-Bromofluorobenzene	*94*		*71 - 128*	*01/23/25 06:02*	*01/28/25 11:33*	*1*
Dibromofluoromethane (Surr)	*99*		*50 - 150*	*01/23/25 06:02*	*01/28/25 11:33*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*	*01/23/25 06:02*	*01/28/25 11:33*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-03-CS-4
Date Collected: 01/22/25 13:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-13
Matrix: Solid
Percent Solids: 96.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
1,2,4-Trichlorobenzene	0.0088	U	0.034	0.0088	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
1,2-Dichlorobenzene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
1,2-Diphenylhydrazine	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2,4-Dinitrotoluene	0.037	U	0.069	0.037	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2,6-Dinitrotoluene	0.025	U	0.069	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2-Methylnaphthalene	0.0096	U *-	0.34	0.0096	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
3-Nitroaniline	0.081	U	0.34	0.081	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
4-Nitrophenol	0.056	U	0.69	0.056	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Acenaphthylene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Anthracene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Benzidine	0.072	U	0.34	0.072	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Benzo[a]pyrene	0.0091	U	0.034	0.0091	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Benzo[b]fluoranthene	0.0089	U	0.034	0.0089	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Benzo[g,h,i]perylene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Benzo[k]fluoranthene	0.0067	U	0.034	0.0067	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
bis (2-chloroisopropyl) ether	0.021	U	0.34	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Caprolactam	0.053	U	0.34	0.053	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Chrysene	0.014	U	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1

Client Sample ID: 2B-03-CS-4
Date Collected: 01/22/25 13:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-13
Matrix: Solid
Percent Solids: 96.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Fluoranthene	0.012	U	0.34	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Hexachlorobutadiene	0.0073	U	0.069	0.0073	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Isophorone	0.099	U	0.14	0.099	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Naphthalene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Pentachlorophenol	0.070	U	0.28	0.070	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1
Pyrene	0.0085	U	0.34	0.0085	mg/Kg	☼	01/23/25 09:13	01/23/25 22:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/23/25 22:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*59*		*24 - 137*	*01/23/25 09:13*	*01/23/25 22:41*	*1*
2-Fluorobiphenyl	*74*		*38 - 128*	*01/23/25 09:13*	*01/23/25 22:41*	*1*
2-Fluorophenol (Surr)	*69*		*31 - 133*	*01/23/25 09:13*	*01/23/25 22:41*	*1*
Nitrobenzene-d5 (Surr)	*69*		*31 - 120*	*01/23/25 09:13*	*01/23/25 22:41*	*1*
Phenol-d5 (Surr)	*70*		*35 - 132*	*01/23/25 09:13*	*01/23/25 22:41*	*1*
Terphenyl-d14 (Surr)	*75*		*44 - 147*	*01/23/25 09:13*	*01/23/25 22:41*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
4,4'-DDE	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Endosulfan sulfate	0.00088	U	0.0070	0.00088	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Endrin aldehyde	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1

Client Sample ID: 2B-03-CS-4

Date Collected: 01/22/25 13:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-13

Matrix: Solid
Percent Solids: 96.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Heptachlor	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	01/25/25 18:28	01/27/25 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*17 - 150*	*01/25/25 18:28*	*01/27/25 09:12*	*1*
DCB Decachlorobiphenyl	*85*		*17 - 150*	*01/25/25 18:28*	*01/27/25 09:12*	*1*
Tetrachloro-m-xylene	*60*		*21 - 150*	*01/25/25 18:28*	*01/27/25 09:12*	*1*
Tetrachloro-m-xylene	*52*		*21 - 150*	*01/25/25 18:28*	*01/27/25 09:12*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1
Polychlorinated biphenyls, Total	0.019	U	0.070	0.019	mg/Kg	☼	01/25/25 18:25	01/26/25 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:58*	*1*
DCB Decachlorobiphenyl	*72*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:58*	*1*
Tetrachloro-m-xylene	*48*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:58*	*1*
Tetrachloro-m-xylene	*47*		*20 - 150*	*01/25/25 18:25*	*01/26/25 15:58*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 14:03	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/24/25 17:31	01/25/25 14:03	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 14:03	1
C21-C40 Aliphatics	7.3	U	7.3	7.3	mg/Kg	☼	01/24/25 17:31	01/25/25 14:03	1
C16-C21 Aromatics	5.2	U	5.2	5.2	mg/Kg	☼	01/24/25 17:31	01/25/25 13:16	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:16	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:16	1
C21-C36 Aromatic	8.3	U	8.3	8.3	mg/Kg	☼	01/24/25 17:31	01/25/25 13:16	1

Client Sample ID: 2B-03-CS-4

Lab Sample ID: 460-319165-13

Date Collected: 01/22/25 13:50
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 96.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:16*	*1*
2-Fluorobiphenyl	*89*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:16*	*1*
2-Bromonaphthalene	*87*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:16*	*1*
1-Chlorooctadecane	*76*		*40 - 140*	*01/24/25 17:31*	*01/25/25 14:03*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		19.5	5.3	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Antimony	0.14	U	0.97	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Arsenic	**1.7**		0.97	0.10	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Barium	**5.8**		1.9	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Beryllium	**0.079**	**J**	0.39	0.055	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Cadmium	0.11	U	0.97	0.11	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Calcium	39.6	U	97.4	39.6	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Chromium	**9.4**		1.9	0.88	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Cobalt	**0.33**	**J**	1.9	0.14	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Copper	**4.2**		1.9	0.36	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Iron	**4630**		58.4	19.7	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Lead	**2.0**		0.58	0.19	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Magnesium	**66.5**	**J**	97.4	9.9	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Manganese	**2.6**	**J**	3.9	0.39	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Nickel	**3.0**		1.9	0.46	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Potassium	**142**		97.4	15.8	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Silver	0.087	U	0.39	0.087	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Sodium	44.5	U	97.4	44.5	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Thallium	0.040	U	0.39	0.040	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Vanadium	**11.5**		1.9	0.20	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1
Zinc	3.0	U	7.8	3.0	mg/Kg	☼	01/28/25 06:02	01/28/25 14:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.017	0.0081	mg/Kg	☼	01/27/25 01:13	01/27/25 05:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	U	0.25	0.14	mg/Kg	☼	01/28/25 09:12	01/28/25 12:32	1
Percent Moisture (EPA Moisture)	**4.0**		1.0	1.0	%			01/22/25 20:28	1
Percent Solids (EPA Moisture)	**96.0**		1.0	1.0	%			01/22/25 20:28	1

Client Sample ID: 2B-03-CS-8

Lab Sample ID: 460-319165-14

Date Collected: 01/22/25 14:00
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 98.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1

Client Sample ID: 2B-03-CS-8
Date Collected: 01/22/25 14:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-14
Matrix: Solid
Percent Solids: 98.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,2-Dibromo-3-Chloropropane	0.00049	U *-	0.0011	0.00049	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,2-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,2-Dichloroethane	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
2-Butanone (MEK)	0.00039	U	0.0053	0.00039	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
2-Hexanone	0.0018	U	0.0053	0.0018	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0053	0.0016	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Acetone	**0.045**		0.0063	0.0060	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Benzene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Bromodichloromethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Bromomethane	0.0011	U	0.0021	0.0011	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Carbon disulfide	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Chlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Chloroethane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Chloromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Cyclohexane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Dibromochloromethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Methyl acetate	0.0045	U	0.0053	0.0045	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Methyl tert-butyl ether	0.00054	U	0.0011	0.00054	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Methylcyclohexane	0.00053	U	0.0011	0.00053	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
m-Xylene & p-Xylene	0.00018	U	0.0011	0.00018	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
o-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Styrene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Tetrachloroethene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
trans-1,3-Dichloropropene	0.00028	U *-	0.0011	0.00028	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1
Vinyl chloride	0.00058	U	0.0011	0.00058	mg/Kg	☼	01/23/25 06:03	01/28/25 11:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/23/25 06:03*	*01/28/25 11:58*	*1*

Client Sample ID: 2B-03-CS-8

Date Collected: 01/22/25 14:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-14

Matrix: Solid
Percent Solids: 98.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*	*01/23/25 06:03*	*01/28/25 11:58*	*1*
4-Bromofluorobenzene	*92*		*71 - 128*	*01/23/25 06:03*	*01/28/25 11:58*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 150*	*01/23/25 06:03*	*01/28/25 11:58*	*1*
Toluene-d8 (Surr)	*92*		*71 - 126*	*01/23/25 06:03*	*01/28/25 11:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2-Methylnaphthalene	0.0094	U *-	0.33	0.0094	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Benzo[b]fluoranthene	0.0087	U	0.033	0.0087	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1

Client Sample ID: 2B-03-CS-8
Date Collected: 01/22/25 14:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-14
Matrix: Solid
Percent Solids: 98.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/23/25 09:13	01/23/25 23:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/23/25 09:13*	*01/23/25 23:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*24 - 137*	*01/23/25 09:13*	*01/23/25 23:00*	*1*
2-Fluorobiphenyl	*72*		*38 - 128*	*01/23/25 09:13*	*01/23/25 23:00*	*1*
2-Fluorophenol (Surr)	*66*		*31 - 133*	*01/23/25 09:13*	*01/23/25 23:00*	*1*
Nitrobenzene-d5 (Surr)	*66*		*31 - 120*	*01/23/25 09:13*	*01/23/25 23:00*	*1*
Phenol-d5 (Surr)	*67*		*35 - 132*	*01/23/25 09:13*	*01/23/25 23:00*	*1*
Terphenyl-d14 (Surr)	*72*		*44 - 147*	*01/23/25 09:13*	*01/23/25 23:00*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1

Client Sample ID: 2B-03-CS-8

Date Collected: 01/22/25 14:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-14

Matrix: Solid
Percent Solids: 98.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:28	01/27/25 09:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*17 - 150*	*01/25/25 18:28*	*01/27/25 09:27*	*1*
DCB Decachlorobiphenyl	*107*		*17 - 150*	*01/25/25 18:28*	*01/27/25 09:27*	*1*
Tetrachloro-m-xylene	*80*		*21 - 150*	*01/25/25 18:28*	*01/27/25 09:27*	*1*
Tetrachloro-m-xylene	*71*		*21 - 150*	*01/25/25 18:28*	*01/27/25 09:27*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:25	01/26/25 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*20 - 150*	*01/25/25 18:25*	*01/26/25 16:15*	*1*
DCB Decachlorobiphenyl	*95*		*20 - 150*	*01/25/25 18:25*	*01/26/25 16:15*	*1*
Tetrachloro-m-xylene	*68*		*20 - 150*	*01/25/25 18:25*	*01/26/25 16:15*	*1*
Tetrachloro-m-xylene	*66*		*20 - 150*	*01/25/25 18:25*	*01/26/25 16:15*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/25/25 12:20	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 14:18	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/24/25 17:31	01/25/25 14:18	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 14:18	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/24/25 17:31	01/25/25 14:18	1

Client Sample ID: 2B-03-CS-8

Date Collected: 01/22/25 14:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-14

Matrix: Solid
Percent Solids: 98.5

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:32	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:32	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/24/25 17:31	01/25/25 13:32	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/24/25 17:31	01/25/25 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:32*	*1*
2-Fluorobiphenyl	*96*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:32*	*1*
2-Bromonaphthalene	*94*		*40 - 140*	*01/24/25 17:31*	*01/25/25 13:32*	*1*
1-Chlorooctadecane	*71*		*40 - 140*	*01/24/25 17:31*	*01/25/25 14:18*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2830**		18.1	5.0	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Antimony	0.13	U	0.91	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Arsenic	**0.30**	**J**	0.91	0.093	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Barium	**3.0**		1.8	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Beryllium	0.052	U	0.36	0.052	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Cadmium	0.10	U	0.91	0.10	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Calcium	36.9	U	90.6	36.9	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Chromium	**4.5**		1.8	0.82	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Cobalt	0.13	U	1.8	0.13	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Copper	**1.1**	**J**	1.8	0.33	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Iron	**1040**		54.4	18.3	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Lead	**1.4**		0.54	0.18	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Magnesium	**33.1**	**J**	90.6	9.2	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Manganese	**1.1**	**J**	3.6	0.37	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Nickel	**0.56**	**J**	1.8	0.43	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Potassium	**157**		90.6	14.7	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Silver	0.081	U	0.36	0.081	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Sodium	41.4	U	90.6	41.4	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Vanadium	**3.6**		1.8	0.19	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1
Zinc	2.8	U	7.2	2.8	mg/Kg	☼	01/28/25 06:02	01/28/25 15:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	U	0.017	0.0081	mg/Kg	☼	01/27/25 01:13	01/27/25 05:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/28/25 09:12	01/28/25 12:33	1
Percent Moisture (EPA Moisture)	**1.5**		1.0	1.0	%			01/22/25 19:13	1
Percent Solids (EPA Moisture)	**98.5**		1.0	1.0	%			01/22/25 19:13	1

Client Sample ID: 2B-04-TS
Date Collected: 01/22/25 14:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-15
Matrix: Solid
Percent Solids: 97.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00028	U H F1	0.0012	0.00028	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,1,2,2-Tetrachloroethane	0.00026	U H F1	0.0012	0.00026	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,1,2-Trichloroethane	0.00021	U H F1	0.0012	0.00021	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,1-Dichloroethane	0.00025	U H	0.0012	0.00025	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,1-Dichloroethene	0.00027	U H F1	0.0012	0.00027	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,2,3-Trichlorobenzene	0.00022	U H F1 F2	0.0012	0.00022	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,2,4-Trichlorobenzene	0.00043	U H F1 F2	0.0012	0.00043	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,2-Dibromo-3-Chloropropane	0.00055	U H F1	0.0012	0.00055	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,2-Dibromoethane	0.00022	U H F1	0.0012	0.00022	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,2-Dichlorobenzene	0.00043	U H F1	0.0012	0.00043	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,2-Dichloroethane	0.00035	U H F1	0.0012	0.00035	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,2-Dichloropropane	0.00051	U H F1	0.0012	0.00051	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,3-Dichlorobenzene	0.00044	U H F1	0.0012	0.00044	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
1,4-Dichlorobenzene	0.00027	U H F1	0.0012	0.00027	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
2-Butanone (MEK)	0.00044	U H F1	0.0060	0.00044	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
2-Hexanone	0.0020	U H F1	0.0060	0.0020	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
4-Methyl-2-pentanone (MIBK)	0.0019	U H F1	0.0060	0.0019	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Acetone	0.0068	U H F1	0.0072	0.0068	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Benzene	0.00031	U H F1	0.0012	0.00031	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Bromodichloromethane	0.00031	U H F1	0.0012	0.00031	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Bromoform	0.00051	U H F1	0.0012	0.00051	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Bromomethane	0.0012	U H F1 *+	0.0024	0.0012	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Carbon disulfide	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Carbon tetrachloride	0.00046	U H F1	0.0012	0.00046	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Chlorobenzene	0.00021	U H F1	0.0012	0.00021	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Chlorobromomethane	0.00034	U H F1	0.0012	0.00034	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Chloroethane	0.00062	U H	0.0012	0.00062	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Chloroform	0.0012	U H F1	0.0012	0.0012	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Chloromethane	0.00052	U H	0.0012	0.00052	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
cis-1,2-Dichloroethene	0.00043	U H F1	0.0012	0.00043	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
cis-1,3-Dichloropropene	0.00033	U H F1	0.0012	0.00033	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Cyclohexane	0.00026	U H F1	0.0012	0.00026	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Dibromochloromethane	0.00023	U H F1	0.0012	0.00023	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Dichlorodifluoromethane	0.00040	U H	0.0012	0.00040	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Ethylbenzene	0.00024	U H F1	0.0012	0.00024	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Isopropylbenzene	0.00034	U H F1	0.0012	0.00034	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Methyl acetate	0.0051	U H	0.0060	0.0051	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Methyl tert-butyl ether	0.00061	U H F1	0.0012	0.00061	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Methylcyclohexane	0.00060	U H F1	0.0012	0.00060	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Methylene Chloride	0.0014	U H F1	0.0024	0.0014	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
m-Xylene & p-Xylene	0.00021	U H F1	0.0012	0.00021	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
o-Xylene	0.00023	U H F1	0.0012	0.00023	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Styrene	0.00033	U H F1	0.0012	0.00033	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Tetrachloroethene	0.00036	U H F1	0.0012	0.00036	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Toluene	0.00028	U H F1	0.0012	0.00028	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
trans-1,2-Dichloroethene	0.00029	U H F1	0.0012	0.00029	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
trans-1,3-Dichloropropene	0.00032	U H F1	0.0012	0.00032	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Trichloroethene	0.00038	U H F1	0.0012	0.00038	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1

Client Sample ID: 2B-04-TS
Date Collected: 01/22/25 14:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-15
Matrix: Solid
Percent Solids: 97.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00049	U H	0.0012	0.00049	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1
Vinyl chloride	0.00065	U H	0.0012	0.00065	mg/Kg	☼	01/23/25 06:05	03/04/25 19:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 06:05*	*03/04/25 19:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/23/25 06:05*	*03/04/25 19:11*	*1*
4-Bromofluorobenzene	*104*		*71 - 128*	*01/23/25 06:05*	*03/04/25 19:11*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*01/23/25 06:05*	*03/04/25 19:11*	*1*
Toluene-d8 (Surr)	*107*		*71 - 126*	*01/23/25 06:05*	*03/04/25 19:11*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
1,2,4-Trichlorobenzene	0.0087	U H	0.034	0.0087	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
1,2-Dichlorobenzene	0.0057	U H	0.34	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2,4,5-Trichlorophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2,4,6-Trichlorophenol	0.043	U H	0.14	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2,4-Dimethylphenol	0.040	U H	0.34	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2,4-Dinitrophenol	0.17	U H	0.27	0.17	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2,4-Dinitrotoluene	0.036	U H	0.068	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2,6-Dinitrotoluene	0.024	U H	0.068	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2-Methylnaphthalene	0.0094	U H	0.34	0.0094	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
3,3'-Dichlorobenzidine	0.051	U H F1 F2	0.14	0.051	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
3-Nitroaniline	0.080	U H	0.34	0.080	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
4-Bromophenyl phenyl ether	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
4-Chloroaniline	0.060	U H	0.34	0.060	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
4-Nitrophenol	0.055	U H	0.68	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Acenaphthene	0.0096	U H	0.34	0.0096	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Acenaphthylene	0.0096	U H	0.34	0.0096	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Atrazine	0.020	U H *+	0.14	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Benzaldehyde	0.056	U H	0.34	0.056	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Benzidine	0.071	U H F1	0.34	0.071	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1

Client Sample ID: 2B-04-TS

Date Collected: 01/22/25 14:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-15

Matrix: Solid
Percent Solids: 97.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Benzo[a]pyrene	0.0090	U H	0.034	0.0090	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Benzo[b]fluoranthene	0.0087	U H	0.034	0.0087	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Benzo[g,h,i]perylene	0.0099	U H	0.34	0.0099	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Benzo[k]fluoranthene	0.0066	U H	0.034	0.0066	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
bis (2-chloroisopropyl) ether	0.020	U H	0.34	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Bis(2-chloroethoxy)methane	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Caprolactam	0.052	U H	0.34	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Dimethyl phthalate	0.076	U H	0.34	0.076	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Fluorene	0.0098	U H	0.34	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Hexachlorobutadiene	0.0072	U H	0.068	0.0072	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Isophorone	0.097	U H	0.14	0.097	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Naphthalene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
N-Nitrosodimethylamine	0.031	U H	0.34	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
N-Nitrosodi-n-propylamine	0.024	U H	0.034	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Pentachlorophenol	0.069	U H	0.27	0.069	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Phenanthrene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Phenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1
Pyrene	**0.011**	**J H**	0.34	0.0084	mg/Kg	☼	03/04/25 08:39	03/04/25 20:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*0.59*	*H J*	*mg/Kg*	☼	*2.35*	*N/A*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
Tetradecanoic acid	*0.30*	*H J N*	*mg/Kg*	☼	*6.65*	*544-63-8*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
n-Hexadecanoic acid	*0.43*	*H J N*	*mg/Kg*	☼	*7.40*	*57-10-3*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
Heptadecanoic acid	*0.30*	*H J N*	*mg/Kg*	☼	*8.73*	*506-12-7*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
(Z)-14-Tricosenyl formate	*0.37*	*H J N*	*mg/Kg*	☼	*8.95*	*77899-10-6*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
Unknown	*0.45*	*H J*	*mg/Kg*	☼	*8.97*	*N/A*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*1.2*	*H J N*	*mg/Kg*	☼	*9.06*	*1740-19-8*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
Trichloroacetic acid, hexadecyl ester	*0.54*	*H J N*	*mg/Kg*	☼	*9.15*	*74339-54-1*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
Docosanoic acid	*0.72*	*H J N*	*mg/Kg*	☼	*9.37*	*112-85-6*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
Unknown	*0.70*	*H J*	*mg/Kg*	☼	*9.46*	*N/A*	*03/04/25 08:39*	*03/04/25 20:35*	*1*
5-Eicosene, (E)-	*1.1*	*H J N*	*mg/Kg*	☼	*9.80*	*74685-30-6*	*03/04/25 08:39*	*03/04/25 20:35*	*1*

Client Sample ID: 2B-04-TS

Date Collected: 01/22/25 14:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-15

Matrix: Solid
Percent Solids: 97.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclotetracosane	0.47	H J N	mg/Kg	☼	10.47	297-03-0	03/04/25 08:39	03/04/25 20:35	1
Octadecanal	0.29	H J N	mg/Kg	☼	10.94	638-66-4	03/04/25 08:39	03/04/25 20:35	1
Unknown	1.9	H J	mg/Kg	☼	11.16	N/A	03/04/25 08:39	03/04/25 20:35	1
Oxirane, heptadecyl-	0.54	H J N	mg/Kg	☼	11.67	67860-04-2	03/04/25 08:39	03/04/25 20:35	1
Unknown	2.3	H J	mg/Kg	☼	11.88	N/A	03/04/25 08:39	03/04/25 20:35	1
17-Pentatriacontene	0.32	H J N	mg/Kg	☼	11.94	6971-40-0	03/04/25 08:39	03/04/25 20:35	1
Unknown	3.9	H J	mg/Kg	☼	12.11	N/A	03/04/25 08:39	03/04/25 20:35	1
Unknown	1.1	H J	mg/Kg	☼	12.26	N/A	03/04/25 08:39	03/04/25 20:35	1
Stigmast-4-en-3-one	1.0	H J N	mg/Kg	☼	12.74	1058-61-3	03/04/25 08:39	03/04/25 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 137	03/04/25 08:39	03/04/25 20:35	1
2-Fluorobiphenyl	85		38 - 128	03/04/25 08:39	03/04/25 20:35	1
2-Fluorophenol (Surr)	82		31 - 133	03/04/25 08:39	03/04/25 20:35	1
Nitrobenzene-d5 (Surr)	79		31 - 120	03/04/25 08:39	03/04/25 20:35	1
Phenol-d5 (Surr)	83		35 - 132	03/04/25 08:39	03/04/25 20:35	1
Terphenyl-d14 (Surr)	87		44 - 147	03/04/25 08:39	03/04/25 20:35	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
4,4'-DDE	0.00081	U H	0.0068	0.00081	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
4,4'-DDT	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
delta-BHC	0.00042	U H	0.0020	0.00042	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Dieldrin	0.00089	U H	0.0020	0.00089	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Endosulfan II	0.0018	U H	0.0068	0.0018	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Endosulfan sulfate	0.00086	U H	0.0068	0.00086	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Endrin	0.00098	U H	0.0068	0.00098	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
gamma-BHC (Lindane)	0.00063	U H	0.0020	0.00063	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Heptachlor	0.00081	U H	0.0068	0.00081	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Methoxychlor	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Toxaphene	0.025	U H	0.068	0.025	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1
Chlordane (n.o.s.)	0.017	U H	0.068	0.017	mg/Kg	☼	03/05/25 10:29	03/05/25 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	52		17 - 150	03/05/25 10:29	03/05/25 21:18	1
DCB Decachlorobiphenyl	60		17 - 150	03/05/25 10:29	03/05/25 21:18	1
Tetrachloro-m-xylene	81		21 - 150	03/05/25 10:29	03/05/25 21:18	1
Tetrachloro-m-xylene	73		21 - 150	03/05/25 10:29	03/05/25 21:18	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1

Client Sample ID: 2B-04-TS
Date Collected: 01/22/25 14:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-15
Matrix: Solid
Percent Solids: 97.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:07*	*1*
DCB Decachlorobiphenyl	*85*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:07*	*1*
Tetrachloro-m-xylene	*110*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:07*	*1*
Tetrachloro-m-xylene	*111*		*20 - 150*	*03/05/25 10:34*	*03/05/25 21:07*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H F1	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 21:56	1
C9-C12 Aliphatics	3.1	U H F1	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/05/25 21:56	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 21:56	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/05/25 10:24	03/05/25 21:56	1
C16-C21 Aromatics	5.1	U H	5.1	5.1	mg/Kg	☼	03/05/25 10:24	03/05/25 21:56	1
C10-C12 Aromatics	2.0	U H F1	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 21:56	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/05/25 10:24	03/05/25 21:56	1
C21-C36 Aromatic	8.2	U H	8.2	8.2	mg/Kg	☼	03/05/25 10:24	03/05/25 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*40 - 140*	*03/05/25 10:24*	*03/05/25 21:56*	*1*
2-Fluorobiphenyl	*80*		*40 - 140*	*03/05/25 10:24*	*03/05/25 21:56*	*1*
2-Bromonaphthalene	*72*		*40 - 140*	*03/05/25 10:24*	*03/05/25 21:56*	*1*
1-Chlorooctadecane	*58*		*40 - 140*	*03/05/25 10:24*	*03/05/25 21:56*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**699**	**F1**	20.4	5.6	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Antimony	**0.16**	**J F1**	1.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Arsenic	**0.51**	**J**	1.0	0.11	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Barium	**26.1**	**F1**	2.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Beryllium	0.058	U	0.41	0.058	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Cadmium	0.12	U	1.0	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Calcium	**126**		102	41.6	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Chromium	**1.7**	**J**	2.0	0.93	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Cobalt	0.15	U	2.0	0.15	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Copper	**2.6**		2.0	0.38	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1

Client Sample ID: 2B-04-TS

Lab Sample ID: 460-319165-15
Date Collected: 01/22/25 14:20
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 97.9

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**651**		61.3	20.6	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Lead	**14.3**	**F1**	0.61	0.20	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Magnesium	**46.1**	**J**	102	10.4	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Manganese	**3.3**	**J**	4.1	0.41	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Nickel	**0.66**	**J**	2.0	0.48	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Potassium	**65.0**	**J**	102	16.6	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Selenium	**0.14**	**J**	1.3	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Silver	0.091	U	0.41	0.091	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Sodium	46.7	U	102	46.7	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Thallium	0.042	U	0.41	0.042	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Vanadium	**3.2**		2.0	0.21	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1
Zinc	**4.7**	**J**	8.2	3.1	mg/Kg	☼	03/05/25 07:28	03/05/25 17:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**H**	0.016	0.0074	mg/Kg	☼	03/05/25 01:20	03/05/25 06:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.23	0.12	mg/Kg	☼	03/06/25 10:06	03/06/25 13:14	1
Percent Moisture (EPA Moisture)	**2.1**		1.0	1.0	%			01/22/25 20:28	1
Percent Solids (EPA Moisture)	**97.9**		1.0	1.0	%			01/22/25 20:28	1

Client Sample ID: 2B-04-CS-4

Lab Sample ID: 460-319165-16
Date Collected: 01/22/25 14:30
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,1,2,2-Tetrachloroethane	0.00025	U H	0.0012	0.00025	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U H	0.0012	0.00035	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,1,2-Trichloroethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,1-Dichloroethane	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,1-Dichloroethene	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,2,3-Trichlorobenzene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,2,4-Trichlorobenzene	0.00041	U H	0.0012	0.00041	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,2-Dibromo-3-Chloropropane	0.00053	U H	0.0012	0.00053	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,2-Dibromoethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,2-Dichlorobenzene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,2-Dichloroethane	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,2-Dichloropropane	0.00049	U H	0.0012	0.00049	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,3-Dichlorobenzene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
1,4-Dichlorobenzene	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
2-Butanone (MEK)	0.00043	U H	0.0058	0.00043	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
2-Hexanone	0.0020	U H	0.0058	0.0020	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
4-Methyl-2-pentanone (MIBK)	0.0018	U H	0.0058	0.0018	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Acetone	0.0066	U H	0.0069	0.0066	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Benzene	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Bromodichloromethane	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1

Client Sample ID: 2B-04-CS-4
Date Collected: 01/22/25 14:30
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-16
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.00049	U H	0.0012	0.00049	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Bromomethane	0.0012	U H *+	0.0023	0.0012	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Carbon disulfide	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Carbon tetrachloride	0.00045	U H	0.0012	0.00045	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Chlorobenzene	0.00020	U H	0.0012	0.00020	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Chlorobromomethane	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Chloroethane	0.00060	U H	0.0012	0.00060	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Chloroform	0.0011	U H	0.0012	0.0011	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Chloromethane	0.00050	U H	0.0012	0.00050	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
cis-1,2-Dichloroethene	0.00041	U H	0.0012	0.00041	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
cis-1,3-Dichloropropene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Cyclohexane	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Dibromochloromethane	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Dichlorodifluoromethane	0.00039	U H	0.0012	0.00039	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Ethylbenzene	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Isopropylbenzene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Methyl acetate	0.0050	U H	0.0058	0.0050	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Methyl tert-butyl ether	0.00059	U H	0.0012	0.00059	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Methylcyclohexane	0.00058	U H	0.0012	0.00058	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Methylene Chloride	0.0013	U H	0.0023	0.0013	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
m-Xylene & p-Xylene	0.00020	U H	0.0012	0.00020	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
o-Xylene	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Styrene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Tetrachloroethene	0.00035	U H	0.0012	0.00035	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Toluene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
trans-1,2-Dichloroethene	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
trans-1,3-Dichloropropene	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Trichloroethene	0.00037	U H	0.0012	0.00037	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Trichlorofluoromethane	0.00047	U H	0.0012	0.00047	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1
Vinyl chloride	0.00063	U H	0.0012	0.00063	mg/Kg	☼	01/23/25 06:10	03/04/25 19:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 06:10*	*03/04/25 19:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 138*	*01/23/25 06:10*	*03/04/25 19:34*	*1*
4-Bromofluorobenzene	*99*		*71 - 128*	*01/23/25 06:10*	*03/04/25 19:34*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*01/23/25 06:10*	*03/04/25 19:34*	*1*
Toluene-d8 (Surr)	*106*		*71 - 126*	*01/23/25 06:10*	*03/04/25 19:34*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-04-CS-4
Date Collected: 01/22/25 14:30
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-16
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Atrazine	0.020	U H *+	0.13	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Benzidine	0.070	U H	0.33	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Di-n-butyl phthalate	**0.031**	**J H**	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1

Client Sample ID: 2B-04-CS-4

Date Collected: 01/22/25 14:30
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-16

Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:39	03/04/25 16:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 16:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*24 - 137*	*03/04/25 08:39*	*03/04/25 16:25*	*1*
2-Fluorobiphenyl	*80*		*38 - 128*	*03/04/25 08:39*	*03/04/25 16:25*	*1*
2-Fluorophenol (Surr)	*80*		*31 - 133*	*03/04/25 08:39*	*03/04/25 16:25*	*1*
Nitrobenzene-d5 (Surr)	*81*		*31 - 120*	*03/04/25 08:39*	*03/04/25 16:25*	*1*
Phenol-d5 (Surr)	*73*		*35 - 132*	*03/04/25 08:39*	*03/04/25 16:25*	*1*
Terphenyl-d14 (Surr)	*82*		*44 - 147*	*03/04/25 08:39*	*03/04/25 16:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0068	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
4,4'-DDE	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
4,4'-DDT	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Dieldrin	0.00088	U H	0.0020	0.00088	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Endosulfan II	0.0017	U H	0.0068	0.0017	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Endosulfan sulfate	0.00085	U H	0.0068	0.00085	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Endrin	0.00097	U H	0.0068	0.00097	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
gamma-BHC (Lindane)	0.00063	U H	0.0020	0.00063	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Heptachlor	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Methoxychlor	0.0015	U H	0.0068	0.0015	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Toxaphene	0.024	U H	0.068	0.024	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1
Chlordane (n.o.s.)	0.016	U H	0.068	0.016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:45	1

Client Sample ID: 2B-04-CS-4

Date Collected: 01/22/25 14:30
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-16

Matrix: Solid
Percent Solids: 99.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*17 - 150*	*03/05/25 10:29*	*03/05/25 22:45*	*1*
DCB Decachlorobiphenyl	*79*		*17 - 150*	*03/05/25 10:29*	*03/05/25 22:45*	*1*
Tetrachloro-m-xylene	*114*		*21 - 150*	*03/05/25 10:29*	*03/05/25 22:45*	*1*
Tetrachloro-m-xylene	*109*		*21 - 150*	*03/05/25 10:29*	*03/05/25 22:45*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:05*	*1*
DCB Decachlorobiphenyl	*87*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:05*	*1*
Tetrachloro-m-xylene	*118*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:05*	*1*
Tetrachloro-m-xylene	*115*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:05*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 23:46	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/05/25 10:24	03/05/25 23:46	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 23:46	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:46	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/05/25 10:24	03/05/25 23:46	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/05/25 23:46	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/05/25 10:24	03/05/25 23:46	1
C21-C36 Aromatic	8.1	U H	8.1	8.1	mg/Kg	☼	03/05/25 10:24	03/05/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:46*	*1*
2-Fluorobiphenyl	*84*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:46*	*1*
2-Bromonaphthalene	*74*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:46*	*1*
1-Chlorooctadecane	*82*		*40 - 140*	*03/05/25 10:24*	*03/05/25 23:46*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5120**		18.0	4.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1

Client Sample ID: 2B-04-CS-4

Lab Sample ID: 460-319165-16
Date Collected: 01/22/25 14:30
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 99.0

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.83**	**J**	0.90	0.093	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Barium	**3.6**		1.8	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Calcium	36.7	U	90.2	36.7	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Chromium	**5.3**		1.8	0.82	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Cobalt	**0.20**	**J**	1.8	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Copper	**2.9**		1.8	0.33	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Iron	**2410**		54.1	18.2	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Lead	**2.3**		0.54	0.18	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Magnesium	**63.6**	**J**	90.2	9.2	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Manganese	**2.4**	**J**	3.6	0.36	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Nickel	**1.8**		1.8	0.42	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Potassium	**100**		90.2	14.6	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Selenium	**0.12**	**J**	1.1	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Sodium	41.2	U	90.2	41.2	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Vanadium	**6.0**		1.8	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	03/05/25 07:28	03/05/25 18:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J H**	0.017	0.0081	mg/Kg	☼	03/05/25 01:20	03/05/25 07:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/06/25 10:06	03/06/25 13:25	1
Percent Moisture (EPA Moisture)	**1**		1.0	1.0	%			01/22/25 20:28	1
Percent Solids (EPA Moisture)	**99.0**		1.0	1.0	%			01/22/25 20:28	1

Client Sample ID: 2B-04-CS-8

Lab Sample ID: 460-319165-17
Date Collected: 01/22/25 14:40
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00022	U H	0.00096	0.00022	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,1,2,2-Tetrachloroethane	0.00021	U H	0.00096	0.00021	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U H	0.00096	0.00029	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,1,2-Trichloroethane	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,1-Dichloroethane	0.00020	U H	0.00096	0.00020	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,1-Dichloroethene	0.00022	U H	0.00096	0.00022	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,2,3-Trichlorobenzene	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,2,4-Trichlorobenzene	0.00035	U H	0.00096	0.00035	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,2-Dibromo-3-Chloropropane	0.00044	U H	0.00096	0.00044	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,2-Dibromoethane	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,2-Dichlorobenzene	0.00035	U H	0.00096	0.00035	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,2-Dichloroethane	0.00029	U H	0.00096	0.00029	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,2-Dichloropropane	0.00041	U H	0.00096	0.00041	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1

Client Sample ID: 2B-04-CS-8
Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-17
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00035	U H	0.00096	0.00035	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
1,4-Dichlorobenzene	0.00022	U H	0.00096	0.00022	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
2-Butanone (MEK)	0.00035	U H	0.0048	0.00035	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
2-Hexanone	0.0016	U H	0.0048	0.0016	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
4-Methyl-2-pentanone (MIBK)	0.0015	U H	0.0048	0.0015	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Acetone	0.0055	U H	0.0058	0.0055	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Benzene	0.00025	U H	0.00096	0.00025	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Bromodichloromethane	0.00025	U H	0.00096	0.00025	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Bromoform	0.00041	U H	0.00096	0.00041	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Bromomethane	0.00096	U H *+	0.0019	0.00096	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Carbon disulfide	0.00026	U H	0.00096	0.00026	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Carbon tetrachloride	0.00037	U H	0.00096	0.00037	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Chlorobenzene	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Chlorobromomethane	0.00027	U H	0.00096	0.00027	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Chloroethane	0.00050	U H	0.00096	0.00050	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Chloroform	0.00094	U H	0.00096	0.00094	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Chloromethane	0.00042	U H	0.00096	0.00042	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
cis-1,2-Dichloroethene	0.00035	U H	0.00096	0.00035	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
cis-1,3-Dichloropropene	0.00026	U H	0.00096	0.00026	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Cyclohexane	0.00021	U H	0.00096	0.00021	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Dibromochloromethane	0.00019	U H	0.00096	0.00019	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Dichlorodifluoromethane	0.00033	U H	0.00096	0.00033	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Ethylbenzene	0.00019	U H	0.00096	0.00019	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Isopropylbenzene	0.00027	U H	0.00096	0.00027	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Methyl acetate	0.0041	U H	0.0048	0.0041	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Methyl tert-butyl ether	0.00049	U H	0.00096	0.00049	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Methylcyclohexane	0.00048	U H	0.00096	0.00048	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Methylene Chloride	0.0011	U H	0.0019	0.0011	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
m-Xylene & p-Xylene	0.00017	U H	0.00096	0.00017	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
o-Xylene	0.00019	U H	0.00096	0.00019	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Styrene	0.00027	U H	0.00096	0.00027	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Tetrachloroethene	0.00029	U H	0.00096	0.00029	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Toluene	0.00023	U H	0.00096	0.00023	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
trans-1,2-Dichloroethene	0.00024	U H	0.00096	0.00024	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
trans-1,3-Dichloropropene	0.00026	U H	0.00096	0.00026	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Trichloroethene	0.00031	U H	0.00096	0.00031	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Trichlorofluoromethane	0.00039	U H	0.00096	0.00039	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1
Vinyl chloride	0.00053	U H	0.00096	0.00053	mg/Kg	☼	01/23/25 06:11	03/04/25 19:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/23/25 06:11*	*03/04/25 19:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*	*01/23/25 06:11*	*03/04/25 19:57*	*1*
4-Bromofluorobenzene	*101*		*71 - 128*	*01/23/25 06:11*	*03/04/25 19:57*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*	*01/23/25 06:11*	*03/04/25 19:57*	*1*
Toluene-d8 (Surr)	*107*		*71 - 126*	*01/23/25 06:11*	*03/04/25 19:57*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-04-CS-8
Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-17
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2,4-Dinitrotoluene	0.036	U H	0.068	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2,6-Dinitrotoluene	0.024	U H	0.068	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
4-Nitrophenol	0.054	U H	0.68	0.054	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Atrazine	0.020	U H *+	0.13	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Benzidine	0.070	U H	0.33	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1

Client Sample ID: 2B-04-CS-8

Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-17

Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Fluorene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Hexachlorobutadiene	0.0071	U H	0.068	0.0071	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:39	03/04/25 15:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 15:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*24 - 137*	*03/04/25 08:39*	*03/04/25 15:47*	*1*
2-Fluorobiphenyl	*80*		*38 - 128*	*03/04/25 08:39*	*03/04/25 15:47*	*1*
2-Fluorophenol (Surr)	*86*		*31 - 133*	*03/04/25 08:39*	*03/04/25 15:47*	*1*
Nitrobenzene-d5 (Surr)	*82*		*31 - 120*	*03/04/25 08:39*	*03/04/25 15:47*	*1*
Phenol-d5 (Surr)	*76*		*35 - 132*	*03/04/25 08:39*	*03/04/25 15:47*	*1*
Terphenyl-d14 (Surr)	*82*		*44 - 147*	*03/04/25 08:39*	*03/04/25 15:47*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0068	0.0011	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
4,4'-DDE	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
4,4'-DDT	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Dieldrin	0.00088	U H	0.0020	0.00088	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Endosulfan II	0.0017	U H	0.0068	0.0017	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Endosulfan sulfate	0.00085	U H	0.0068	0.00085	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Endrin	0.00097	U H	0.0068	0.00097	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1

Client Sample ID: 2B-04-CS-8
Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-17
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Heptachlor	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Methoxychlor	0.0015	U H	0.0068	0.0015	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Toxaphene	0.024	U H	0.068	0.024	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1
Chlordane (n.o.s.)	0.016	U H	0.068	0.016	mg/Kg	☼	03/05/25 10:29	03/05/25 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*17 - 150*	*03/05/25 10:29*	*03/05/25 22:57*	*1*
DCB Decachlorobiphenyl	*65*		*17 - 150*	*03/05/25 10:29*	*03/05/25 22:57*	*1*
Tetrachloro-m-xylene	*94*		*21 - 150*	*03/05/25 10:29*	*03/05/25 22:57*	*1*
Tetrachloro-m-xylene	*91*		*21 - 150*	*03/05/25 10:29*	*03/05/25 22:57*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 10:34	03/05/25 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:21*	*1*
DCB Decachlorobiphenyl	*77*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:21*	*1*
Tetrachloro-m-xylene	*107*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:21*	*1*
Tetrachloro-m-xylene	*102*		*20 - 150*	*03/05/25 10:34*	*03/05/25 23:21*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/06/25 11:08	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/06/25 00:01	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/05/25 10:24	03/06/25 00:01	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/06/25 00:01	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/05/25 10:24	03/06/25 00:01	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/05/25 10:24	03/06/25 00:01	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/05/25 10:24	03/06/25 00:01	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/05/25 10:24	03/06/25 00:01	1
C21-C36 Aromatic	8.1	U H	8.1	8.1	mg/Kg	☼	03/05/25 10:24	03/06/25 00:01	1

Client Sample ID: 2B-04-CS-8

Lab Sample ID: 460-319165-17

Date Collected: 01/22/25 14:40
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 99.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:01*	*1*
2-Fluorobiphenyl	*82*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:01*	*1*
2-Bromonaphthalene	*74*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:01*	*1*
1-Chlorooctadecane	*68*		*40 - 140*	*03/05/25 10:24*	*03/06/25 00:01*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5250**		18.4	5.0	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Arsenic	**0.87**	**J**	0.92	0.095	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Barium	**3.7**		1.8	0.13	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	03/05/25 07:28	03/12/25 11:31	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Calcium	37.4	U	91.8	37.4	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Chromium	**6.5**		1.8	0.83	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Cobalt	**0.22**	**J**	1.8	0.14	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Copper	**2.8**		1.8	0.34	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Iron	**2860**		55.1	18.6	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Lead	**1.7**		0.55	0.18	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Magnesium	**63.5**	**J**	91.8	9.4	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Manganese	**2.4**	**J**	3.7	0.37	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Nickel	**1.5**	**J**	1.8	0.43	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Potassium	**124**		91.8	14.9	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Sodium	42.0	U	91.8	42.0	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Vanadium	**6.8**		1.8	0.19	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1
Zinc	2.8	U	7.3	2.8	mg/Kg	☼	03/05/25 07:28	03/05/25 18:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	U H	0.016	0.0077	mg/Kg	☼	03/05/25 01:20	03/05/25 07:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U H	0.21	0.11	mg/Kg	☼	03/06/25 10:06	03/06/25 13:26	1
Percent Moisture (EPA Moisture)	**1.0**		1.0	1.0	%			01/22/25 20:28	1
Percent Solids (EPA Moisture)	**99.0**		1.0	1.0	%			01/22/25 20:28	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 460-319165-18

Date Collected: 01/22/25 14:40
Matrix: Water
Date Received: 01/22/25 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/23/25 10:50	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/23/25 10:50	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/23/25 10:50	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/23/25 10:50	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/23/25 10:50	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: TRIP BLANK

Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-18

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/23/25 10:50	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/23/25 10:50	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/23/25 10:50	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/23/25 10:50	1
1,4-Dioxane	28	U	50	28	ug/L			01/23/25 10:50	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/23/25 10:50	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/23/25 10:50	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/23/25 10:50	1
Acetone	4.4	U	5.0	4.4	ug/L			01/23/25 10:50	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/23/25 10:50	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/23/25 10:50	1
Benzene	0.20	U	1.0	0.20	ug/L			01/23/25 10:50	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/23/25 10:50	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/23/25 10:50	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/23/25 10:50	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/23/25 10:50	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/23/25 10:50	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/23/25 10:50	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/23/25 10:50	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/23/25 10:50	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/23/25 10:50	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/23/25 10:50	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 10:50	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/23/25 10:50	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/23/25 10:50	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/23/25 10:50	1
Methyl acetate	0.79	U *+	5.0	0.79	ug/L			01/23/25 10:50	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/23/25 10:50	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/23/25 10:50	1
Styrene	0.42	U	1.0	0.42	ug/L			01/23/25 10:50	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/23/25 10:50	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/23/25 10:50	1
Toluene	0.38	U	1.0	0.38	ug/L			01/23/25 10:50	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/23/25 10:50	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 10:50	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/23/25 10:50	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/23/25 10:50	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/23/25 10:50	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/23/25 10:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/23/25 10:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 128*		*01/23/25 10:50*	*1*
4-Bromofluorobenzene	*96*		*76 - 120*		*01/23/25 10:50*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 132*		*01/23/25 10:50*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*		*01/23/25 10:50*	*1*

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(65-138)	(71-128)	(50-150)	(71-126)
460-319165-2	IA-01-TS	101	97	101	95
460-319165-3	IA-01-CS	100	92	99	93
460-319165-4	IA-04-TS	111	107	108	111
460-319165-5	IA-04-CS-4	111	102	104	106
460-319165-6	IA-04-CS-8	112	105	108	107
460-319165-7	2B-07-CS-4	105	94	102	94
460-319165-8	2B-07-CS-8	101	93	99	93
460-319165-9	2B-05-CS-4	107	103	105	107
460-319165-10	2B-05-CS-8	107	102	105	108
460-319165-11	DUP-02	104	100	102	104
460-319165-12	2B-03-TS	103	96	102	94
460-319165-13	2B-03-CS-4	103	94	99	94
460-319165-14	2B-03-CS-8	105	92	101	92
460-319165-15	2B-04-TS	108	104	107	107
460-319165-15 MS	2B-04-TS	104	109	106	112
460-319165-15 MSD	2B-04-TS	102	107	105	110
460-319165-16	2B-04-CS-4	103	99	103	106
460-319165-17	2B-04-CS-8	107	101	106	107
LB3 460-1017714/1-A	Method Blank	107	96	111	95
LCS 460-1018049/2	Lab Control Sample	105	97	110	97
LCS 460-1018325/2	Lab Control Sample	103	97	102	100
LCS 460-1023968/2	Lab Control Sample	105	103	106	109
LCSD 460-1018049/3	Lab Control Sample Dup	106	99	112	97
LCSD 460-1018325/3	Lab Control Sample Dup	100	98	100	97
LCSD 460-1023968/3	Lab Control Sample Dup	106	102	105	108
MB 460-1018049/6	Method Blank	105	98	114	99
MB 460-1018325/7	Method Blank	105	95	100	95
MB 460-1023968/7	Method Blank	106	104	105	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-128)	(76-120)	(77-132)	(80-120)
460-319165-1	FB_20250122	122	95	98	110
460-319165-18	TRIP BLANK	122	96	97	112
LCS 460-1017719/4	Lab Control Sample	115	96	92	106
LCSD 460-1017719/5	Lab Control Sample Dup	111	93	91	103
MB 460-1017719/8	Method Blank	118	88	97	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(24-137)	(38-128)	(31-133)	(31-120)	(35-132)	(44-147)
460-319135-I-15-A MS	Matrix Spike	32	45	45	44	40	29 S1-
460-319135-I-15-B MSD	Matrix Spike Duplicate	41	42	40	40	43	43 S1-
460-319165-2	IA-01-TS	63	67	57	58	60	65
460-319165-3	IA-01-CS	60	65	58	60	59	65
460-319165-4	IA-04-TS	87	84	81	83	81	84
460-319165-5	IA-04-CS-4	81	77	79	76	72	79
460-319165-6	IA-04-CS-8	85	80	81	82	76	86
460-319165-7	2B-07-CS-4	52	66	60	61	62	65
460-319165-8	2B-07-CS-8	67	82	73	75	77	84
460-319165-9	2B-05-CS-4	88	83	85	85	76	85
460-319165-10	2B-05-CS-8	86	85	83	87	79	85
460-319165-11	DUP-02	82	76	79	72	73	85
460-319165-12	2B-03-TS	64	66	59	60	60	65
460-319165-13	2B-03-CS-4	59	74	69	69	70	75
460-319165-14	2B-03-CS-8	58	72	66	66	67	72
460-319165-15	2B-04-TS	90	85	82	79	83	87
460-319165-15 MS	2B-04-TS	89	80	75	81	73	84
460-319165-15 MSD	2B-04-TS	87	79	75	75	71	81
460-319165-16	2B-04-CS-4	84	80	80	81	73	82
460-319165-17	2B-04-CS-8	85	80	86	82	76	82
LCS 460-1017758/2-A	Lab Control Sample	70	74	70	70	72	72
LCS 460-1023975/2-A	Lab Control Sample	104	95	99	95	95	98
LCSD 460-1017758/3-A	Lab Control Sample Dup	63	66	62	63	65	65
LCSD 460-1023975/3-A	Lab Control Sample Dup	104	93	102	92	93	97
MB 460-1017758/1-A	Method Blank	56	69	65	64	67	71
MB 460-1023975/1-A	Method Blank	87	86	98	92	79	86

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(37-150)	(46-139)	(16-80)	(51-145)	(10-56)	(13-159)
460-319158-S-2-A MSD	Matrix Spike Duplicate	97	99	53	103	34	41
460-319158-T-2-A MS	Matrix Spike	105	106	61	106	41	51
460-319165-1	FB_20250122	95	100	59	100	39	41
LCS 460-1017771/2-A	Lab Control Sample	111	111	54	110	36	84
LCSD 460-1017771/3-A	Lab Control Sample Dup	97	96	55	96	38	70
MB 460-1017771/1-A	Method Blank	88	89	54	91	36	30

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(21-150)	(21-150)	(17-150)	(17-150)
460-319121-E-4-R MS	Matrix Spike	87	93	95	87
460-319121-E-4-S MSD	Matrix Spike Duplicate	81	86	96	93
460-319165-2	IA-01-TS	73	86	97	94
460-319165-3	IA-01-CS	90	93	118	112
460-319165-4	IA-04-TS	59	62	41	40
460-319165-5	IA-04-CS-4	115	113	84	79
460-319165-6	IA-04-CS-8	72	74	52	52
460-319165-7	2B-07-CS-4	89	96	125	122
460-319165-8	2B-07-CS-8	105	104	117	131
460-319165-9	2B-05-CS-4	73	76	54	54
460-319165-10	2B-05-CS-8	51	53	39	39
460-319165-11	DUP-02	76	80	55	56
460-319165-12	2B-03-TS	73	81	92	92
460-319165-13	2B-03-CS-4	52	60	85	78
460-319165-14	2B-03-CS-8	71	80	107	101
460-319165-15	2B-04-TS	73	81	60	52
460-319165-15 MS	2B-04-TS	71	71	55	50
460-319165-15 MSD	2B-04-TS	71	74	51	46
460-319165-16	2B-04-CS-4	109	114	79	78
460-319165-17	2B-04-CS-8	91	94	65	66
LCS 460-1018101/2-A	Lab Control Sample	74	75	75	70
LCS 460-1024180/2-A	Lab Control Sample	89	86	55	56
LCSD 460-1018101/3-A	Lab Control Sample Dup	80	80	79	75
LCSD 460-1024180/3-A	Lab Control Sample Dup	101	81	67	61
MB 460-1018101/1-A	Method Blank	101	105	104	101
MB 460-1024180/1-A	Method Blank	43	45	56	58

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(34-120)	(34-120)	(30-131)	(30-131)
460-319158-K-2-A MS	Matrix Spike	79	74	69	71
460-319158-K-2-B MSD	Matrix Spike Duplicate	78	74	71	72
460-319165-1	FB_20250122	104	111	85	85
LCS 460-1017868/2-A	Lab Control Sample	82	72	55	53
LCSD 460-1017868/3-A	Lab Control Sample Dup	82	74	55	55
MB 460-1017868/1-A	Method Blank	75	76	55	58

Surrogate Legend

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)
460-319121-E-4-O MS	Matrix Spike	86	103	66	81
460-319121-E-4-P MSD	Matrix Spike Duplicate	90	100	69	77
460-319165-2	IA-01-TS	77	86	63	64
460-319165-3	IA-01-CS	99	100	73	75
460-319165-4	IA-04-TS	64	65	86	88
460-319165-5	IA-04-CS-4	83	85	112	114
460-319165-6	IA-04-CS-8	65	67	88	90
460-319165-7	2B-07-CS-4	104	102	78	80
460-319165-8	2B-07-CS-8	113	107	90	85
460-319165-9	2B-05-CS-4	63	63	84	84
460-319165-10	2B-05-CS-8	68	68	89	90
460-319165-11	DUP-02	75	75	99	102
460-319165-12	2B-03-TS	76	78	65	66
460-319165-13	2B-03-CS-4	72	71	47	48
460-319165-14	2B-03-CS-8	95	91	66	68
460-319165-15	2B-04-TS	85	83	111	110
460-319165-15 MS	2B-04-TS	52	51	67	67
460-319165-15 MSD	2B-04-TS	53	53	72	72
460-319165-16	2B-04-CS-4	87	88	115	118
460-319165-17	2B-04-CS-8	77	79	102	107
LCS 460-1018100/2-A	Lab Control Sample	85	85	87	88
LCS 460-1024184/2-A	Lab Control Sample	73	76	101	102
LCSD 460-1018100/3-A	Lab Control Sample Dup	88	87	86	87
LCSD 460-1024184/3-A	Lab Control Sample Dup	68	70	92	95
MB 460-1018100/1-A	Method Blank	79	80	78	79
MB 460-1024184/1-A	Method Blank	54	52	37	36

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(18-145)	(18-145)	(21-124)	(21-124)
460-319158-H-2-A MS	Matrix Spike	70	78	81	79
460-319158-H-2-B MSD	Matrix Spike Duplicate	70	72	81	79
460-319165-1	FB_20250122	79	88	88	89
LCS 460-1017866/2-A	Lab Control Sample	72	63	87	78
LCSD 460-1017866/3-A	Lab Control Sample Dup	66	63	80	81
MB 460-1017866/1-A	Method Blank	64	62	78	81

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319165-1
Project/Site: Manchester LF JR0312

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	1COD1 (40-140)						
180-185280-C-1-D MS	Matrix Spike	53						
180-185280-C-1-E MSD	Matrix Spike Duplicate	49						
460-319165-2	IA-01-TS	67						
460-319165-3	IA-01-CS	73						
460-319165-7	2B-07-CS-4	78						
460-319165-8	2B-07-CS-8	73						
460-319165-12	2B-03-TS	73						
460-319165-13	2B-03-CS-4	76						
460-319165-14	2B-03-CS-8	71						
LCS 460-1017967/2-A	Lab Control Sample	92						
LCSD 460-1017967/3-A	Lab Control Sample Dup	82						
MB 460-1017967/1-A	Method Blank	61						

Surrogate Legend

1COD = 1-Chlorooctadecane

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	OTPH1 (40-140)	FBP1 (40-140)	2BN1 (40-140)	1COD1 (40-140)			
180-185280-C-1-D MS	Matrix Spike	59	91	81				
180-185280-C-1-E MSD	Matrix Spike Duplicate	56	82	76				
460-319165-2	IA-01-TS	80	90	90				
460-319165-3	IA-01-CS	86	93	92				
460-319165-4	IA-04-TS	51	86	78	45			
460-319165-5	IA-04-CS-4	59	82	79	51			
460-319165-6	IA-04-CS-8	69	88	77	66			
460-319165-7	2B-07-CS-4	82	90	88				
460-319165-8	2B-07-CS-8	89	100	97				
460-319165-9	2B-05-CS-4	89	100	87	76			
460-319165-10	2B-05-CS-8	72	91	80	70			
460-319165-11	DUP-02	79	89	80	75			
460-319165-12	2B-03-TS	86	96	95				
460-319165-13	2B-03-CS-4	80	89	87				
460-319165-14	2B-03-CS-8	84	96	94				
460-319165-15	2B-04-TS	64	80	72	58			
460-319165-15 MS	2B-04-TS	53	81	75	43			
460-319165-15 MSD	2B-04-TS	54	89	80	47			
460-319165-16	2B-04-CS-4	85	84	74	82			
460-319165-17	2B-04-CS-8	79	82	74	68			
LCS 460-1017967/2-A	Lab Control Sample	93	98	89				
LCS 460-1024177/2-A	Lab Control Sample	79	103	86	74			
LCSD 460-1017967/3-A	Lab Control Sample Dup	77	96	84				
LCSD 460-1024177/3-A	Lab Control Sample Dup	88	96	85	74			
MB 460-1017967/1-A	Method Blank	66	92	85				
MB 460-1024177/1-A	Method Blank	82	87	77	86			

Surrogate Legend

OTPH = o-Terphenyl

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

FBP = 2-Fluorobiphenyl
2BN = 2-Bromonaphthalene
1COD = 1-Chlorooctadecane

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		OTPH1	1COD1								
Lab Sample ID	Client Sample ID	(40-140)	(40-140)								
460-319165-1	FB_20250122	89	77								
LCS 460-1017775/2-A	Lab Control Sample	87	102								
LCSD 460-1017775/3-A	Lab Control Sample Dup	88	44								
MB 460-1017775/1-A	Method Blank	92	81								

Surrogate Legend

OTPH = o-Terphenyl
1COD = 1-Chlorooctadecane

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-1017714/1-A
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017714

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/23/25 05:36	01/25/25 07:26	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-1017714/1-A
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017714

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg		01/23/25 05:36	01/25/25 07:26	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg		01/23/25 05:36	01/25/25 07:26	1

Tentatively Identified Compound	*LB3 Est. Result*	*LB3 Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*01/23/25 05:36*	*01/25/25 07:26*	*1*

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*	*01/23/25 05:36*	*01/25/25 07:26*	*1*
4-Bromofluorobenzene	*96*		*71 - 128*	*01/23/25 05:36*	*01/25/25 07:26*	*1*
Dibromofluoromethane (Surr)	*111*		*50 - 150*	*01/23/25 05:36*	*01/25/25 07:26*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*	*01/23/25 05:36*	*01/25/25 07:26*	*1*

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1017714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.00028	U H F1	0.0243	0.0169	H F1	mg/Kg	☼	70	78 - 120
1,1,2,2-Tetrachloroethane	0.00026	U H F1	0.0243	0.0131	H F1	mg/Kg	☼	54	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00036	U H	0.0243	0.0222	H	mg/Kg	☼	91	75 - 121
1,1,2-Trichloroethane	0.00021	U H F1	0.0243	0.0140	H F1	mg/Kg	☼	58	80 - 120
1,1-Dichloroethane	0.00025	U H	0.0243	0.0175	H	mg/Kg	☼	72	72 - 120
1,1-Dichloroethene	0.00027	U H F1	0.0243	0.0191	H	mg/Kg	☼	78	76 - 120
1,2,3-Trichlorobenzene	0.00022	U H F1 F2	0.0243	0.00311	H F1	mg/Kg	☼	13	77 - 137
1,2,4-Trichlorobenzene	0.00043	U H F1 F2	0.0243	0.00327	H F1	mg/Kg	☼	13	77 - 136
1,2-Dibromo-3-Chloropropane	0.00055	U H F1	0.0243	0.00837	H F1	mg/Kg	☼	34	80 - 124
1,2-Dibromoethane	0.00022	U H F1	0.0243	0.0105	H F1	mg/Kg	☼	43	79 - 120
1,2-Dichlorobenzene	0.00043	U H F1	0.0243	0.00638	H F1	mg/Kg	☼	26	80 - 120
1,2-Dichloroethane	0.00035	U H F1	0.0243	0.0132	H F1	mg/Kg	☼	54	70 - 123
1,2-Dichloropropane	0.00051	U H F1	0.0243	0.0150	H F1	mg/Kg	☼	62	73 - 124
1,3-Dichlorobenzene	0.00044	U H F1	0.0243	0.00672	H F1	mg/Kg	☼	28	80 - 120
1,4-Dichlorobenzene	0.00027	U H F1	0.0243	0.00626	H F1	mg/Kg	☼	26	80 - 120
2-Butanone (MEK)	0.00044	U H F1	0.122	0.0741	H F1	mg/Kg	☼	61	64 - 128
2-Hexanone	0.0020	U H F1	0.122	0.0490	H F1	mg/Kg	☼	40	75 - 120
4-Methyl-2-pentanone (MIBK)	0.0019	U H F1	0.122	0.0713	H F1	mg/Kg	☼	59	80 - 120
Acetone	0.0068	U H F1	0.122	0.185	H F1	mg/Kg	☼	152	58 - 122
Benzene	0.00031	U H F1	0.0243	0.0163	H F1	mg/Kg	☼	67	75 - 120
Bromodichloromethane	0.00031	U H F1	0.0243	0.0128	H F1	mg/Kg	☼	52	77 - 124
Bromoform	0.00051	U H F1	0.0243	0.00818	H F1	mg/Kg	☼	34	61 - 125
Bromomethane	0.0012	U H F1 *+	0.0243	0.0485	H F1	mg/Kg	☼	200	37 - 150
Carbon disulfide	0.00032	U H	0.0243	0.0156	H	mg/Kg	☼	64	57 - 133
Carbon tetrachloride	0.00046	U H F1	0.0243	0.0155	H F1	mg/Kg	☼	64	66 - 127
Chlorobenzene	0.00021	U H F1	0.0243	0.00937	H F1	mg/Kg	☼	39	80 - 120
Chlorobromomethane	0.00034	U H F1	0.0243	0.0140	H F1	mg/Kg	☼	57	76 - 127
Chloroethane	0.00062	U H	0.0243	0.0205	H	mg/Kg	☼	84	60 - 123
Chloroform	0.0012	U H F1	0.0243	0.0162	H F1	mg/Kg	☼	67	79 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1017714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	0.00052	U H	0.0243	0.0192	H	mg/Kg	☼	79	46 - 122
cis-1,2-Dichloroethene	0.00043	U H F1	0.0243	0.0144	H F1	mg/Kg	☼	59	80 - 123
cis-1,3-Dichloropropene	0.00033	U H F1	0.0243	0.0116	H F1	mg/Kg	☼	48	75 - 120
Cyclohexane	0.00026	U H F1	0.0243	0.0188	H	mg/Kg	☼	77	65 - 132
Dibromochloromethane	0.00023	U H F1	0.0243	0.0104	H F1	mg/Kg	☼	43	72 - 120
Dichlorodifluoromethane	0.00040	U H	0.0243	0.0175	H	mg/Kg	☼	72	45 - 129
Ethylbenzene	0.00024	U H F1	0.0243	0.0116	H F1	mg/Kg	☼	48	80 - 120
Isopropylbenzene	0.00034	U H F1	0.0243	0.0116	H F1	mg/Kg	☼	48	74 - 120
Methyl acetate	0.0051	U H	0.0487	0.0585	H	mg/Kg	☼	120	57 - 120
Methyl tert-butyl ether	0.00061	U H F1	0.0243	0.0165	H F1	mg/Kg	☼	68	74 - 125
Methylcyclohexane	0.00060	U H F1	0.0243	0.0161	H	mg/Kg	☼	66	66 - 125
Methylene Chloride	0.0014	U H F1	0.0243	0.0164	H F1	mg/Kg	☼	67	78 - 120
m-Xylene & p-Xylene	0.00021	U H F1	0.0243	0.0101	H F1	mg/Kg	☼	41	80 - 120
o-Xylene	0.00023	U H F1	0.0243	0.0106	H F1	mg/Kg	☼	43	80 - 120
Styrene	0.00033	U H F1	0.0243	0.00670	H F1	mg/Kg	☼	28	80 - 120
Tetrachloroethene	0.00036	U H F1	0.0243	0.0127	H F1	mg/Kg	☼	52	73 - 120
Toluene	0.00028	U H F1	0.0243	0.0136	H F1	mg/Kg	☼	56	80 - 120
trans-1,2-Dichloroethene	0.00029	U H F1	0.0243	0.0153	H F1	mg/Kg	☼	63	78 - 120
trans-1,3-Dichloropropene	0.00032	U H F1	0.0243	0.00963	H F1	mg/Kg	☼	40	77 - 120
Trichloroethene	0.00038	U H F1	0.0243	0.0128	H F1	mg/Kg	☼	53	80 - 120
Trichlorofluoromethane	0.00049	U H	0.0243	0.0201	H	mg/Kg	☼	83	61 - 130
Vinyl chloride	0.00065	U H	0.0243	0.0214	H	mg/Kg	☼	88	54 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*
4-Bromofluorobenzene	*109*		*71 - 128*
Dibromofluoromethane (Surr)	*106*		*50 - 150*
Toluene-d8 (Surr)	*112*		*71 - 126*

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1017714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.00028	U H F1	0.0233	0.0151	H F1	mg/Kg	☼	65	78 - 120	12	30
1,1,2,2-Tetrachloroethane	0.00026	U H F1	0.0233	0.0125	H F1	mg/Kg	☼	54	70 - 133	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00036	U H	0.0233	0.0177	H	mg/Kg	☼	76	75 - 121	22	30
1,1,2-Trichloroethane	0.00021	U H F1	0.0233	0.0134	H F1	mg/Kg	☼	58	80 - 120	4	30
1,1-Dichloroethane	0.00025	U H	0.0233	0.0167	H	mg/Kg	☼	72	72 - 120	4	30
1,1-Dichloroethene	0.00027	U H F1	0.0233	0.0165	H F1	mg/Kg	☼	71	76 - 120	15	30
1,2,3-Trichlorobenzene	0.00022	U H F1 F2	0.0233	0.00444	H F1 F2	mg/Kg	☼	19	77 - 137	35	30
1,2,4-Trichlorobenzene	0.00043	U H F1 F2	0.0233	0.00452	H F1 F2	mg/Kg	☼	19	77 - 136	32	30
1,2-Dibromo-3-Chloropropane	0.00055	U H F1	0.0233	0.00840	H F1	mg/Kg	☼	36	80 - 124	0	30
1,2-Dibromoethane	0.00022	U H F1	0.0233	0.0103	H F1	mg/Kg	☼	44	79 - 120	1	30
1,2-Dichlorobenzene	0.00043	U H F1	0.0233	0.00753	H F1	mg/Kg	☼	32	80 - 120	17	30
1,2-Dichloroethane	0.00035	U H F1	0.0233	0.0125	H F1	mg/Kg	☼	54	70 - 123	6	30
1,2-Dichloropropane	0.00051	U H F1	0.0233	0.0144	H F1	mg/Kg	☼	62	73 - 124	4	30
1,3-Dichlorobenzene	0.00044	U H F1	0.0233	0.00743	H F1	mg/Kg	☼	32	80 - 120	10	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1017714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.00027	U H F1	0.0233	0.00659	H F1	mg/Kg	☼	28	80 - 120	5	30
2-Butanone (MEK)	0.00044	U H F1	0.116	0.0745	H	mg/Kg	☼	64	64 - 128	1	30
2-Hexanone	0.0020	U H F1	0.116	0.0457	H F1	mg/Kg	☼	39	75 - 120	7	30
4-Methyl-2-pentanone (MIBK)	0.0019	U H F1	0.116	0.0663	H F1	mg/Kg	☼	57	80 - 120	7	30
Acetone	0.0068	U H F1	0.116	0.154	H F1	mg/Kg	☼	133	58 - 122	18	30
Benzene	0.00031	U H F1	0.0233	0.0154	H F1	mg/Kg	☼	66	75 - 120	6	30
Bromodichloromethane	0.00031	U H F1	0.0233	0.0124	H F1	mg/Kg	☼	53	77 - 124	3	30
Bromoform	0.00051	U H F1	0.0233	0.00780	H F1	mg/Kg	☼	34	61 - 125	5	30
Bromomethane	0.0012	U H F1 *+	0.0233	0.0403	H F1	mg/Kg	☼	173	37 - 150	19	30
Carbon disulfide	0.00032	U H	0.0233	0.0141	H	mg/Kg	☼	60	57 - 133	10	30
Carbon tetrachloride	0.00046	U H F1	0.0233	0.0130	H F1	mg/Kg	☼	56	66 - 127	17	30
Chlorobenzene	0.00021	U H F1	0.0233	0.00945	H F1	mg/Kg	☼	41	80 - 120	1	30
Chlorobromomethane	0.00034	U H F1	0.0233	0.0136	H F1	mg/Kg	☼	59	76 - 127	3	30
Chloroethane	0.00062	U H	0.0233	0.0171	H	mg/Kg	☼	73	60 - 123	18	30
Chloroform	0.0012	U H F1	0.0233	0.0157	H F1	mg/Kg	☼	67	79 - 126	3	30
Chloromethane	0.00052	U H	0.0233	0.0165	H	mg/Kg	☼	71	46 - 122	15	30
cis-1,2-Dichloroethene	0.00043	U H F1	0.0233	0.0140	H F1	mg/Kg	☼	60	80 - 123	3	30
cis-1,3-Dichloropropene	0.00033	U H F1	0.0233	0.0109	H F1	mg/Kg	☼	47	75 - 120	6	30
Cyclohexane	0.00026	U H F1	0.0233	0.0148	H F1	mg/Kg	☼	64	65 - 132	24	30
Dibromochloromethane	0.00023	U H F1	0.0233	0.0104	H F1	mg/Kg	☼	44	72 - 120	0	30
Dichlorodifluoromethane	0.00040	U H	0.0233	0.0136	H	mg/Kg	☼	58	45 - 129	25	30
Ethylbenzene	0.00024	U H F1	0.0233	0.0117	H F1	mg/Kg	☼	50	80 - 120	1	30
Isopropylbenzene	0.00034	U H F1	0.0233	0.0110	H F1	mg/Kg	☼	47	74 - 120	5	30
Methyl acetate	0.0051	U H	0.0465	0.0517	H	mg/Kg	☼	111	57 - 120	12	30
Methyl tert-butyl ether	0.00061	U H F1	0.0233	0.0163	H F1	mg/Kg	☼	70	74 - 125	1	30
Methylcyclohexane	0.00060	U H F1	0.0233	0.0123	H F1	mg/Kg	☼	53	66 - 125	27	30
Methylene Chloride	0.0014	U H F1	0.0233	0.0158	H F1	mg/Kg	☼	68	78 - 120	3	30
m-Xylene & p-Xylene	0.00021	U H F1	0.0233	0.0103	H F1	mg/Kg	☼	44	80 - 120	2	30
o-Xylene	0.00023	U H F1	0.0233	0.0110	H F1	mg/Kg	☼	47	80 - 120	4	30
Styrene	0.00033	U H F1	0.0233	0.00743	H F1	mg/Kg	☼	32	80 - 120	10	30
Tetrachloroethene	0.00036	U H F1	0.0233	0.0116	H F1	mg/Kg	☼	50	73 - 120	9	30
Toluene	0.00028	U H F1	0.0233	0.0129	H F1	mg/Kg	☼	55	80 - 120	5	30
trans-1,2-Dichloroethene	0.00029	U H F1	0.0233	0.0145	H F1	mg/Kg	☼	62	78 - 120	6	30
trans-1,3-Dichloropropene	0.00032	U H F1	0.0233	0.00915	H F1	mg/Kg	☼	39	77 - 120	5	30
Trichloroethene	0.00038	U H F1	0.0233	0.0119	H F1	mg/Kg	☼	51	80 - 120	7	30
Trichlorofluoromethane	0.00049	U H	0.0233	0.0157	H	mg/Kg	☼	67	61 - 130	25	30
Vinyl chloride	0.00065	U H	0.0233	0.0179	H	mg/Kg	☼	77	54 - 122	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*
4-Bromofluorobenzene	*107*		*71 - 128*
Dibromofluoromethane (Surr)	*105*		*50 - 150*
Toluene-d8 (Surr)	*110*		*71 - 126*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1017719/8
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/23/25 08:36	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/23/25 08:36	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/23/25 08:36	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/23/25 08:36	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/23/25 08:36	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/23/25 08:36	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/23/25 08:36	1
1,4-Dioxane	28	U	50	28	ug/L			01/23/25 08:36	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/23/25 08:36	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/23/25 08:36	1
Acrolein	2.4	U	4.0	2.4	ug/L			01/23/25 08:36	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/23/25 08:36	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/23/25 08:36	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/23/25 08:36	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/23/25 08:36	1
Acetone	4.4	U	5.0	4.4	ug/L			01/23/25 08:36	1
Benzene	0.20	U	1.0	0.20	ug/L			01/23/25 08:36	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/23/25 08:36	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/23/25 08:36	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/23/25 08:36	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/23/25 08:36	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/23/25 08:36	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/23/25 08:36	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/23/25 08:36	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/23/25 08:36	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/23/25 08:36	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/23/25 08:36	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 08:36	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/23/25 08:36	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/23/25 08:36	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/23/25 08:36	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/23/25 08:36	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/23/25 08:36	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/23/25 08:36	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/23/25 08:36	1
Styrene	0.42	U	1.0	0.42	ug/L			01/23/25 08:36	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/23/25 08:36	1
Toluene	0.38	U	1.0	0.38	ug/L			01/23/25 08:36	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/23/25 08:36	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/23/25 08:36	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/23/25 08:36	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/23/25 08:36	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/23/25 08:36	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/23/25 08:36	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/23/25 08:36*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1017719/8
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 128		01/23/25 08:36	1
4-Bromofluorobenzene	88		76 - 120		01/23/25 08:36	1
Dibromofluoromethane (Surr)	97		77 - 132		01/23/25 08:36	1
Toluene-d8 (Surr)	100		80 - 120		01/23/25 08:36	1

Lab Sample ID: LCS 460-1017719/4
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.0		ug/L		90	72 - 128
1,1,2,2-Tetrachloroethane	20.0	24.3		ug/L		122	63 - 139
1,1,2-Trichloroethane	20.0	22.5		ug/L		113	74 - 125
1,1-Dichloroethane	20.0	21.6		ug/L		108	73 - 130
1,1-Dichloroethene	20.0	17.1		ug/L		85	68 - 133
1,2-Dibromo-3-Chloropropane	20.0	20.7		ug/L		103	58 - 132
1,2-Dibromoethane	20.0	21.2		ug/L		106	79 - 126
1,4-Dioxane	400	394		ug/L		99	42 - 150
1,2-Dichloroethane	20.0	22.6		ug/L		113	66 - 129
1,2-Dichloropropane	20.0	22.8		ug/L		114	72 - 128
Acrolein	40.0	91.9	*+	ug/L		230	18 - 150
2-Butanone (MEK)	100	69.4		ug/L		69	65 - 142
Acrylonitrile	200	281		ug/L		140	57 - 146
2-Hexanone	100	114		ug/L		114	72 - 134
4-Methyl-2-pentanone (MIBK)	100	110		ug/L		110	77 - 130
Acetone	100	93.6		ug/L		94	60 - 133
Benzene	20.0	21.7		ug/L		108	71 - 126
Bromodichloromethane	20.0	18.7		ug/L		94	76 - 121
Bromoform	20.0	19.3		ug/L		97	58 - 128
Bromomethane	20.0	17.4		ug/L		87	33 - 150
Carbon disulfide	20.0	19.0		ug/L		95	35 - 150
Carbon tetrachloride	20.0	17.3		ug/L		86	65 - 131
Chlorobenzene	20.0	18.8		ug/L		94	80 - 120
Chloroethane	20.0	20.5		ug/L		103	54 - 150
Chloroform	20.0	19.2		ug/L		96	78 - 125
Chloromethane	20.0	24.3		ug/L		121	43 - 149
cis-1,2-Dichloroethene	20.0	17.1		ug/L		86	78 - 121
cis-1,3-Dichloropropene	20.0	21.7		ug/L		108	74 - 125
Dibromochloromethane	20.0	19.5		ug/L		97	73 - 121
Dichlorodifluoromethane	20.0	18.3		ug/L		91	38 - 144
Ethylbenzene	20.0	18.9		ug/L		94	78 - 120
Methyl acetate	40.0	63.3	*+	ug/L		158	50 - 147
tert-Butyl alcohol	200	201		ug/L		101	64 - 142
Methyl tert-butyl ether	20.0	21.0		ug/L		105	72 - 131
Methylene Chloride	20.0	18.1		ug/L		90	74 - 127
Styrene	20.0	18.6		ug/L		93	82 - 127
Tetrachloroethene	20.0	17.2		ug/L		86	70 - 127
Toluene	20.0	19.8		ug/L		99	78 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1017719/4
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			40.0	37.7		ug/L		94	80 - 120		
trans-1,2-Dichloroethene			20.0	17.2		ug/L		86	70 - 126		
trans-1,3-Dichloropropene			20.0	21.4		ug/L		107	71 - 127		
Trichloroethene			20.0	17.5		ug/L		88	73 - 121		
Trichlorofluoromethane			20.0	19.6		ug/L		98	62 - 134		
Vinyl chloride			20.0	22.1		ug/L		111	55 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*
4-Bromofluorobenzene	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*92*		*77 - 132*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 460-1017719/5
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	17.8		ug/L		89	72 - 128	1	30
1,1,2,2-Tetrachloroethane			20.0	24.6		ug/L		123	63 - 139	1	30
1,1,2-Trichloroethane			20.0	21.0		ug/L		105	74 - 125	7	30
1,1-Dichloroethane			20.0	21.6		ug/L		108	73 - 130	0	30
1,1-Dichloroethene			20.0	17.3		ug/L		87	68 - 133	2	30
1,2-Dibromo-3-Chloropropane			20.0	20.4		ug/L		102	58 - 132	1	30
1,2-Dibromoethane			20.0	19.6		ug/L		98	79 - 126	8	30
1,4-Dioxane			400	406		ug/L		101	42 - 150	3	30
1,2-Dichloroethane			20.0	21.1		ug/L		106	66 - 129	7	30
1,2-Dichloropropane			20.0	22.3		ug/L		111	72 - 128	2	30
Acrolein			40.0	95.3	*+	ug/L		238	18 - 150	4	30
2-Butanone (MEK)			100	68.4		ug/L		68	65 - 142	1	30
Acrylonitrile			200	272		ug/L		136	57 - 146	3	30
2-Hexanone			100	112		ug/L		112	72 - 134	2	30
4-Methyl-2-pentanone (MIBK)			100	106		ug/L		106	77 - 130	4	30
Acetone			100	90.3		ug/L		90	60 - 133	4	30
Benzene			20.0	21.5		ug/L		108	71 - 126	1	30
Bromodichloromethane			20.0	19.0		ug/L		95	76 - 121	1	30
Bromoform			20.0	18.5		ug/L		93	58 - 128	4	30
Bromomethane			20.0	18.5		ug/L		93	33 - 150	6	30
Carbon disulfide			20.0	18.6		ug/L		93	35 - 150	2	30
Carbon tetrachloride			20.0	17.8		ug/L		89	65 - 131	3	30
Chlorobenzene			20.0	18.6		ug/L		93	80 - 120	1	30
Chloroethane			20.0	19.9		ug/L		99	54 - 150	3	30
Chloroform			20.0	19.4		ug/L		97	78 - 125	1	30
Chloromethane			20.0	24.3		ug/L		122	43 - 149	0	30
cis-1,2-Dichloroethene			20.0	17.3		ug/L		86	78 - 121	1	30
cis-1,3-Dichloropropene			20.0	21.0		ug/L		105	74 - 125	3	30
Dibromochloromethane			20.0	18.4		ug/L		92	73 - 121	6	30
Dichlorodifluoromethane			20.0	18.5		ug/L		92	38 - 144	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1017719/5
Matrix: Water
Analysis Batch: 1017719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.2		ug/L		96	78 - 120	2	30
Methyl acetate			40.0	62.7	*+	ug/L		157	50 - 147	1	30
tert-Butyl alcohol			200	197		ug/L		99	64 - 142	2	30
Methyl tert-butyl ether			20.0	20.8		ug/L		104	72 - 131	1	30
Methylene Chloride			20.0	18.0		ug/L		90	74 - 127	0	30
Styrene			20.0	18.9		ug/L		95	82 - 127	1	30
Tetrachloroethene			20.0	16.4		ug/L		82	70 - 127	5	30
Toluene			20.0	19.2		ug/L		96	78 - 120	3	30
Xylenes, Total			40.0	37.8		ug/L		94	80 - 120	0	30
trans-1,2-Dichloroethene			20.0	17.3		ug/L		86	70 - 126	0	30
trans-1,3-Dichloropropene			20.0	21.2		ug/L		106	71 - 127	1	30
Trichloroethene			20.0	17.5		ug/L		88	73 - 121	0	30
Trichlorofluoromethane			20.0	19.3		ug/L		97	62 - 134	1	30
Vinyl chloride			20.0	22.6		ug/L		113	55 - 144	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*
4-Bromofluorobenzene	*93*		*76 - 120*
Dibromofluoromethane (Surr)	*91*		*77 - 132*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 460-1018049/6
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/25/25 07:00	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/25/25 07:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/25/25 07:00	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/25/25 07:00	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/25/25 07:00	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/25/25 07:00	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/25/25 07:00	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/25/25 07:00	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/25/25 07:00	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/25/25 07:00	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/25/25 07:00	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/25/25 07:00	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/25/25 07:00	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/25/25 07:00	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/25/25 07:00	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/25/25 07:00	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			01/25/25 07:00	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/25/25 07:00	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/25/25 07:00	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/25/25 07:00	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			01/25/25 07:00	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/25/25 07:00	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018049/6
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/25/25 07:00	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/25/25 07:00	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/25/25 07:00	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/25/25 07:00	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/25/25 07:00	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/25/25 07:00	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/25/25 07:00	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/25/25 07:00	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/25/25 07:00	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/25/25 07:00	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/25/25 07:00	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			01/25/25 07:00	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/25/25 07:00	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/25/25 07:00	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/25/25 07:00	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/25/25 07:00	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/25/25 07:00	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/25/25 07:00	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/25/25 07:00	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/25/25 07:00	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/25/25 07:00	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/25/25 07:00	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/25/25 07:00	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/25/25 07:00	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/25/25 07:00	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/25/25 07:00	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/25/25 07:00	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/25/25 07:00	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/25/25 07:00	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*01/25/25 07:00*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*		*01/25/25 07:00*	*1*
4-Bromofluorobenzene	*98*		*71 - 128*		*01/25/25 07:00*	*1*
Dibromofluoromethane (Surr)	*114*		*50 - 150*		*01/25/25 07:00*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*01/25/25 07:00*	*1*

Lab Sample ID: LCS 460-1018049/2
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0193		mg/Kg		97	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0165		mg/Kg		82	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0194		mg/Kg		97	75 - 121

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018049/2
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0200	0.0165		mg/Kg		83	80 - 120
1,1-Dichloroethane	0.0200	0.0199		mg/Kg		99	72 - 120
1,1-Dichloroethene	0.0200	0.0189		mg/Kg		95	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0191		mg/Kg		95	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0189		mg/Kg		95	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0147	*-	mg/Kg		73	80 - 124
1,2-Dibromoethane	0.0200	0.0173		mg/Kg		87	79 - 120
1,2-Dichlorobenzene	0.0200	0.0174		mg/Kg		87	80 - 120
1,2-Dichloroethane	0.0200	0.0185		mg/Kg		93	70 - 123
1,2-Dichloropropane	0.0200	0.0188		mg/Kg		94	73 - 124
1,3-Dichlorobenzene	0.0200	0.0181		mg/Kg		90	80 - 120
1,4-Dichlorobenzene	0.0200	0.0175		mg/Kg		87	80 - 120
2-Butanone (MEK)	0.100	0.0936		mg/Kg		94	64 - 128
2-Hexanone	0.100	0.0864		mg/Kg		86	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0908		mg/Kg		91	80 - 120
Acetone	0.100	0.0829		mg/Kg		83	58 - 122
Benzene	0.0200	0.0173		mg/Kg		87	75 - 120
Bromodichloromethane	0.0200	0.0180		mg/Kg		90	77 - 124
Bromoform	0.0200	0.0141		mg/Kg		70	61 - 125
Bromomethane	0.0200	0.0202		mg/Kg		101	37 - 150
Carbon disulfide	0.0200	0.0169		mg/Kg		85	57 - 133
Carbon tetrachloride	0.0200	0.0201		mg/Kg		101	66 - 127
Chlorobenzene	0.0200	0.0184		mg/Kg		92	80 - 120
Chlorobromomethane	0.0200	0.0194		mg/Kg		97	76 - 127
Chloroethane	0.0200	0.0180		mg/Kg		90	60 - 123
Chloroform	0.0200	0.0196		mg/Kg		98	79 - 126
Chloromethane	0.0200	0.0194		mg/Kg		97	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0203		mg/Kg		102	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0155		mg/Kg		78	75 - 120
Cyclohexane	0.0200	0.0211		mg/Kg		106	65 - 132
Dibromochloromethane	0.0200	0.0158		mg/Kg		79	72 - 120
Dichlorodifluoromethane	0.0200	0.0207		mg/Kg		103	45 - 129
Ethylbenzene	0.0200	0.0183		mg/Kg		91	80 - 120
Isopropylbenzene	0.0200	0.0189		mg/Kg		94	74 - 120
Methyl acetate	0.0400	0.0363		mg/Kg		91	57 - 120
Methyl tert-butyl ether	0.0200	0.0178		mg/Kg		89	74 - 125
Methylcyclohexane	0.0200	0.0216		mg/Kg		108	66 - 125
Methylene Chloride	0.0200	0.0193		mg/Kg		96	78 - 120
m-Xylene & p-Xylene	0.0200	0.0179		mg/Kg		89	80 - 120
o-Xylene	0.0200	0.0176		mg/Kg		88	80 - 120
Styrene	0.0200	0.0164		mg/Kg		82	80 - 120
Tetrachloroethene	0.0200	0.0200		mg/Kg		100	73 - 120
Toluene	0.0200	0.0173		mg/Kg		87	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0199		mg/Kg		100	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0142	*-	mg/Kg		71	77 - 120
Trichloroethene	0.0200	0.0203		mg/Kg		102	80 - 120
Trichlorofluoromethane	0.0200	0.0190		mg/Kg		95	61 - 130
Vinyl chloride	0.0200	0.0188		mg/Kg		94	54 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018049/2
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*
4-Bromofluorobenzene	*97*		*71 - 128*
Dibromofluoromethane (Surr)	*110*		*50 - 150*
Toluene-d8 (Surr)	*97*		*71 - 126*

Lab Sample ID: LCSD 460-1018049/3
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0191		mg/Kg		96	78 - 120	1	30
1,1,2,2-Tetrachloroethane			0.0200	0.0161		mg/Kg		81	70 - 133	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0184		mg/Kg		92	75 - 121	5	30
1,1,2-Trichloroethane			0.0200	0.0166		mg/Kg		83	80 - 120	0	30
1,1-Dichloroethane			0.0200	0.0191		mg/Kg		95	72 - 120	4	30
1,1-Dichloroethene			0.0200	0.0174		mg/Kg		87	76 - 120	8	30
1,2,3-Trichlorobenzene			0.0200	0.0185		mg/Kg		92	77 - 137	3	30
1,2,4-Trichlorobenzene			0.0200	0.0183		mg/Kg		92	77 - 136	3	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0143	*-	mg/Kg		72	80 - 124	2	30
1,2-Dibromoethane			0.0200	0.0169		mg/Kg		84	79 - 120	3	30
1,2-Dichlorobenzene			0.0200	0.0170		mg/Kg		85	80 - 120	2	30
1,2-Dichloroethane			0.0200	0.0184		mg/Kg		92	70 - 123	1	30
1,2-Dichloropropane			0.0200	0.0187		mg/Kg		93	73 - 124	0	30
1,3-Dichlorobenzene			0.0200	0.0177		mg/Kg		89	80 - 120	2	30
1,4-Dichlorobenzene			0.0200	0.0172		mg/Kg		86	80 - 120	2	30
2-Butanone (MEK)			0.100	0.0952		mg/Kg		95	64 - 128	2	30
2-Hexanone			0.100	0.0833		mg/Kg		83	75 - 120	4	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0847		mg/Kg		85	80 - 120	7	30
Acetone			0.100	0.0823		mg/Kg		82	58 - 122	1	30
Benzene			0.0200	0.0170		mg/Kg		85	75 - 120	2	30
Bromodichloromethane			0.0200	0.0179		mg/Kg		89	77 - 124	0	30
Bromoform			0.0200	0.0144		mg/Kg		72	61 - 125	2	30
Bromomethane			0.0200	0.0191		mg/Kg		95	37 - 150	6	30
Carbon disulfide			0.0200	0.0161		mg/Kg		81	57 - 133	5	30
Carbon tetrachloride			0.0200	0.0192		mg/Kg		96	66 - 127	5	30
Chlorobenzene			0.0200	0.0177		mg/Kg		89	80 - 120	4	30
Chlorobromomethane			0.0200	0.0194		mg/Kg		97	76 - 127	0	30
Chloroethane			0.0200	0.0175		mg/Kg		88	60 - 123	3	30
Chloroform			0.0200	0.0193		mg/Kg		97	79 - 126	1	30
Chloromethane			0.0200	0.0186		mg/Kg		93	46 - 122	4	30
cis-1,2-Dichloroethene			0.0200	0.0199		mg/Kg		99	80 - 123	2	30
cis-1,3-Dichloropropene			0.0200	0.0156		mg/Kg		78	75 - 120	0	30
Cyclohexane			0.0200	0.0204		mg/Kg		102	65 - 132	3	30
Dibromochloromethane			0.0200	0.0155		mg/Kg		77	72 - 120	2	30
Dichlorodifluoromethane			0.0200	0.0199		mg/Kg		100	45 - 129	4	30
Ethylbenzene			0.0200	0.0174		mg/Kg		87	80 - 120	5	30
Isopropylbenzene			0.0200	0.0177		mg/Kg		88	74 - 120	6	30
Methyl acetate			0.0400	0.0363		mg/Kg		91	57 - 120	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018049/3
Matrix: Solid
Analysis Batch: 1018049

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.0200	0.0171		mg/Kg		85	74 - 125	4	30
Methylcyclohexane	0.0200	0.0208		mg/Kg		104	66 - 125	4	30
Methylene Chloride	0.0200	0.0186		mg/Kg		93	78 - 120	4	30
m-Xylene & p-Xylene	0.0200	0.0172		mg/Kg		86	80 - 120	4	30
o-Xylene	0.0200	0.0165		mg/Kg		83	80 - 120	6	30
Styrene	0.0200	0.0161		mg/Kg		80	80 - 120	2	30
Tetrachloroethene	0.0200	0.0187		mg/Kg		94	73 - 120	7	30
Toluene	0.0200	0.0167		mg/Kg		83	80 - 120	4	30
trans-1,2-Dichloroethene	0.0200	0.0191		mg/Kg		96	78 - 120	4	30
trans-1,3-Dichloropropene	0.0200	0.0138	*-	mg/Kg		69	77 - 120	2	30
Trichloroethene	0.0200	0.0196		mg/Kg		98	80 - 120	4	30
Trichlorofluoromethane	0.0200	0.0184		mg/Kg		92	61 - 130	3	30
Vinyl chloride	0.0200	0.0176		mg/Kg		88	54 - 122	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*
4-Bromofluorobenzene	*99*		*71 - 128*
Dibromofluoromethane (Surr)	*112*		*50 - 150*
Toluene-d8 (Surr)	*97*		*71 - 126*

Lab Sample ID: MB 460-1018325/7
Matrix: Solid
Analysis Batch: 1018325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/28/25 08:39	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/28/25 08:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/28/25 08:39	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/28/25 08:39	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/28/25 08:39	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/28/25 08:39	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/28/25 08:39	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/28/25 08:39	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/28/25 08:39	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/28/25 08:39	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/28/25 08:39	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/28/25 08:39	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/28/25 08:39	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/28/25 08:39	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/28/25 08:39	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/28/25 08:39	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			01/28/25 08:39	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/28/25 08:39	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/28/25 08:39	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/28/25 08:39	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			01/28/25 08:39	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/28/25 08:39	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/28/25 08:39	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018325/7
Matrix: Solid
Analysis Batch: 1018325

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/28/25 08:39	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/28/25 08:39	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/28/25 08:39	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/28/25 08:39	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/28/25 08:39	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/28/25 08:39	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/28/25 08:39	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/28/25 08:39	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/28/25 08:39	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/28/25 08:39	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			01/28/25 08:39	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/28/25 08:39	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/28/25 08:39	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/28/25 08:39	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/28/25 08:39	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/28/25 08:39	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/28/25 08:39	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/28/25 08:39	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/28/25 08:39	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/28/25 08:39	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/28/25 08:39	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/28/25 08:39	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/28/25 08:39	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/28/25 08:39	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/28/25 08:39	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/28/25 08:39	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/28/25 08:39	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/28/25 08:39	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*01/28/25 08:39*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*		*01/28/25 08:39*	*1*
4-Bromofluorobenzene	*95*		*71 - 128*		*01/28/25 08:39*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 150*		*01/28/25 08:39*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*		*01/28/25 08:39*	*1*

Lab Sample ID: LCS 460-1018325/2
Matrix: Solid
Analysis Batch: 1018325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0169		mg/Kg		85	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0187		mg/Kg		93	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0179		mg/Kg		89	75 - 121
1,1,2-Trichloroethane	0.0200	0.0181		mg/Kg		90	80 - 120

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018325/2
Matrix: Solid
Analysis Batch: 1018325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0200	0.0200		mg/Kg		100	72 - 120
1,1-Dichloroethene	0.0200	0.0174		mg/Kg		87	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0182		mg/Kg		91	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0162		mg/Kg		81	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0156	*-	mg/Kg		78	80 - 124
1,2-Dibromoethane	0.0200	0.0181		mg/Kg		90	79 - 120
1,2-Dichlorobenzene	0.0200	0.0175		mg/Kg		88	80 - 120
1,2-Dichloroethane	0.0200	0.0190		mg/Kg		95	70 - 123
1,2-Dichloropropane	0.0200	0.0195		mg/Kg		98	73 - 124
1,3-Dichlorobenzene	0.0200	0.0176		mg/Kg		88	80 - 120
1,4-Dichlorobenzene	0.0200	0.0169		mg/Kg		84	80 - 120
2-Butanone (MEK)	0.100	0.0876		mg/Kg		88	64 - 128
2-Hexanone	0.100	0.0860		mg/Kg		86	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0881		mg/Kg		88	80 - 120
Acetone	0.100	0.0906		mg/Kg		91	58 - 122
Benzene	0.0200	0.0187		mg/Kg		93	75 - 120
Bromodichloromethane	0.0200	0.0177		mg/Kg		88	77 - 124
Bromoform	0.0200	0.0152		mg/Kg		76	61 - 125
Bromomethane	0.0200	0.0184		mg/Kg		92	37 - 150
Carbon disulfide	0.0200	0.0204		mg/Kg		102	57 - 133
Carbon tetrachloride	0.0200	0.0166		mg/Kg		83	66 - 127
Chlorobenzene	0.0200	0.0183		mg/Kg		91	80 - 120
Chlorobromomethane	0.0200	0.0191		mg/Kg		96	76 - 127
Chloroethane	0.0200	0.0192		mg/Kg		96	60 - 123
Chloroform	0.0200	0.0189		mg/Kg		95	79 - 126
Chloromethane	0.0200	0.0198		mg/Kg		99	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0197		mg/Kg		98	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0158		mg/Kg		79	75 - 120
Cyclohexane	0.0200	0.0195		mg/Kg		98	65 - 132
Dibromochloromethane	0.0200	0.0167		mg/Kg		83	72 - 120
Dichlorodifluoromethane	0.0200	0.0193		mg/Kg		96	45 - 129
Ethylbenzene	0.0200	0.0174		mg/Kg		87	80 - 120
Isopropylbenzene	0.0200	0.0164		mg/Kg		82	74 - 120
Methyl acetate	0.0400	0.0408		mg/Kg		102	57 - 120
Methyl tert-butyl ether	0.0200	0.0175		mg/Kg		87	74 - 125
Methylcyclohexane	0.0200	0.0193		mg/Kg		97	66 - 125
Methylene Chloride	0.0200	0.0197		mg/Kg		98	78 - 120
m-Xylene & p-Xylene	0.0200	0.0168		mg/Kg		84	80 - 120
o-Xylene	0.0200	0.0167		mg/Kg		83	80 - 120
Styrene	0.0200	0.0165		mg/Kg		83	80 - 120
Tetrachloroethene	0.0200	0.0177		mg/Kg		88	73 - 120
Toluene	0.0200	0.0178		mg/Kg		89	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0190		mg/Kg		95	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0139	*-	mg/Kg		69	77 - 120
Trichloroethene	0.0200	0.0188		mg/Kg		94	80 - 120
Trichlorofluoromethane	0.0200	0.0171		mg/Kg		86	61 - 130
Vinyl chloride	0.0200	0.0193		mg/Kg		96	54 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018325/2
Matrix: Solid
Analysis Batch: 1018325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 138*
4-Bromofluorobenzene	*97*		*71 - 128*
Dibromofluoromethane (Surr)	*102*		*50 - 150*
Toluene-d8 (Surr)	*100*		*71 - 126*

Lab Sample ID: LCSD 460-1018325/3
Matrix: Solid
Analysis Batch: 1018325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0170		mg/Kg		85	78 - 120	0	30
1,1,2,2-Tetrachloroethane			0.0200	0.0184		mg/Kg		92	70 - 133	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0175		mg/Kg		88	75 - 121	2	30
1,1,2-Trichloroethane			0.0200	0.0176		mg/Kg		88	80 - 120	2	30
1,1-Dichloroethane			0.0200	0.0201		mg/Kg		101	72 - 120	1	30
1,1-Dichloroethene			0.0200	0.0169		mg/Kg		84	76 - 120	3	30
1,2,3-Trichlorobenzene			0.0200	0.0190		mg/Kg		95	77 - 137	5	30
1,2,4-Trichlorobenzene			0.0200	0.0182		mg/Kg		91	77 - 136	12	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0150	*-	mg/Kg		75	80 - 124	4	30
1,2-Dibromoethane			0.0200	0.0183		mg/Kg		91	79 - 120	1	30
1,2-Dichlorobenzene			0.0200	0.0179		mg/Kg		90	80 - 120	2	30
1,2-Dichloroethane			0.0200	0.0190		mg/Kg		95	70 - 123	0	30
1,2-Dichloropropane			0.0200	0.0195		mg/Kg		97	73 - 124	0	30
1,3-Dichlorobenzene			0.0200	0.0182		mg/Kg		91	80 - 120	3	30
1,4-Dichlorobenzene			0.0200	0.0176		mg/Kg		88	80 - 120	4	30
2-Butanone (MEK)			0.100	0.0913		mg/Kg		91	64 - 128	4	30
2-Hexanone			0.100	0.0881		mg/Kg		88	75 - 120	2	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0914		mg/Kg		91	80 - 120	4	30
Acetone			0.100	0.0923		mg/Kg		92	58 - 122	2	30
Benzene			0.0200	0.0180		mg/Kg		90	75 - 120	3	30
Bromodichloromethane			0.0200	0.0180		mg/Kg		90	77 - 124	2	30
Bromoform			0.0200	0.0148		mg/Kg		74	61 - 125	2	30
Bromomethane			0.0200	0.0186		mg/Kg		93	37 - 150	1	30
Carbon disulfide			0.0200	0.0203		mg/Kg		102	57 - 133	0	30
Carbon tetrachloride			0.0200	0.0168		mg/Kg		84	66 - 127	1	30
Chlorobenzene			0.0200	0.0182		mg/Kg		91	80 - 120	1	30
Chlorobromomethane			0.0200	0.0187		mg/Kg		94	76 - 127	2	30
Chloroethane			0.0200	0.0182		mg/Kg		91	60 - 123	6	30
Chloroform			0.0200	0.0187		mg/Kg		93	79 - 126	1	30
Chloromethane			0.0200	0.0196		mg/Kg		98	46 - 122	1	30
cis-1,2-Dichloroethene			0.0200	0.0191		mg/Kg		96	80 - 123	3	30
cis-1,3-Dichloropropene			0.0200	0.0158		mg/Kg		79	75 - 120	0	30
Cyclohexane			0.0200	0.0194		mg/Kg		97	65 - 132	1	30
Dibromochloromethane			0.0200	0.0162		mg/Kg		81	72 - 120	3	30
Dichlorodifluoromethane			0.0200	0.0186		mg/Kg		93	45 - 129	4	30
Ethylbenzene			0.0200	0.0177		mg/Kg		88	80 - 120	2	30
Isopropylbenzene			0.0200	0.0159		mg/Kg		80	74 - 120	3	30
Methyl acetate			0.0400	0.0385		mg/Kg		96	57 - 120	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018325/3
Matrix: Solid
Analysis Batch: 1018325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether			0.0200	0.0173		mg/Kg		87	74 - 125	1	30
Methylcyclohexane			0.0200	0.0193		mg/Kg		96	66 - 125	0	30
Methylene Chloride			0.0200	0.0190		mg/Kg		95	78 - 120	3	30
m-Xylene & p-Xylene			0.0200	0.0171		mg/Kg		86	80 - 120	2	30
o-Xylene			0.0200	0.0171		mg/Kg		86	80 - 120	3	30
Styrene			0.0200	0.0169		mg/Kg		84	80 - 120	2	30
Tetrachloroethene			0.0200	0.0178		mg/Kg		89	73 - 120	1	30
Toluene			0.0200	0.0179		mg/Kg		90	80 - 120	0	30
trans-1,2-Dichloroethene			0.0200	0.0190		mg/Kg		95	78 - 120	0	30
trans-1,3-Dichloropropene			0.0200	0.0136	*-	mg/Kg		68	77 - 120	2	30
Trichloroethene			0.0200	0.0192		mg/Kg		96	80 - 120	3	30
Trichlorofluoromethane			0.0200	0.0166		mg/Kg		83	61 - 130	3	30
Vinyl chloride			0.0200	0.0183		mg/Kg		92	54 - 122	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 138*
4-Bromofluorobenzene	*98*		*71 - 128*
Dibromofluoromethane (Surr)	*100*		*50 - 150*
Toluene-d8 (Surr)	*97*		*71 - 126*

Lab Sample ID: MB 460-1023968/7
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 11:52	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/04/25 11:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/04/25 11:52	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 11:52	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/04/25 11:52	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 11:52	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 11:52	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 11:52	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			03/04/25 11:52	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 11:52	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 11:52	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/04/25 11:52	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			03/04/25 11:52	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			03/04/25 11:52	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 11:52	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			03/04/25 11:52	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			03/04/25 11:52	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			03/04/25 11:52	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			03/04/25 11:52	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			03/04/25 11:52	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			03/04/25 11:52	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			03/04/25 11:52	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			03/04/25 11:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1023968/7
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 11:52	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			03/04/25 11:52	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 11:52	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			03/04/25 11:52	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			03/04/25 11:52	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			03/04/25 11:52	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			03/04/25 11:52	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 11:52	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 11:52	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			03/04/25 11:52	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			03/04/25 11:52	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			03/04/25 11:52	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			03/04/25 11:52	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			03/04/25 11:52	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			03/04/25 11:52	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			03/04/25 11:52	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			03/04/25 11:52	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			03/04/25 11:52	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			03/04/25 11:52	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			03/04/25 11:52	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			03/04/25 11:52	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			03/04/25 11:52	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 11:52	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			03/04/25 11:52	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 11:52	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			03/04/25 11:52	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			03/04/25 11:52	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			03/04/25 11:52	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*03/04/25 11:52*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*		*03/04/25 11:52*	*1*
4-Bromofluorobenzene	*104*		*71 - 128*		*03/04/25 11:52*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 150*		*03/04/25 11:52*	*1*
Toluene-d8 (Surr)	*110*		*71 - 126*		*03/04/25 11:52*	*1*

Lab Sample ID: LCS 460-1023968/2
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0201		mg/Kg		100	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0219		mg/Kg		109	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0234		mg/Kg		117	75 - 121
1,1,2-Trichloroethane	0.0200	0.0213		mg/Kg		106	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1023968/2
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.0200	0.0212		mg/Kg		106	72 - 120
1,1-Dichloroethene	0.0200	0.0222		mg/Kg		111	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0196		mg/Kg		98	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0195		mg/Kg		98	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0171		mg/Kg		85	80 - 124
1,2-Dibromoethane	0.0200	0.0194		mg/Kg		97	79 - 120
1,2-Dichlorobenzene	0.0200	0.0208		mg/Kg		104	80 - 120
1,2-Dichloroethane	0.0200	0.0184		mg/Kg		92	70 - 123
1,2-Dichloropropane	0.0200	0.0208		mg/Kg		104	73 - 124
1,3-Dichlorobenzene	0.0200	0.0218		mg/Kg		109	80 - 120
1,4-Dichlorobenzene	0.0200	0.0213		mg/Kg		107	80 - 120
2-Butanone (MEK)	0.100	0.0965		mg/Kg		97	64 - 128
2-Hexanone	0.100	0.0898		mg/Kg		90	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0963		mg/Kg		96	80 - 120
Acetone	0.100	0.0913		mg/Kg		91	58 - 122
Benzene	0.0200	0.0227		mg/Kg		113	75 - 120
Bromodichloromethane	0.0200	0.0191		mg/Kg		96	77 - 124
Bromoform	0.0200	0.0170		mg/Kg		85	61 - 125
Bromomethane	0.0200	0.0509	*+	mg/Kg		254	37 - 150
Carbon disulfide	0.0200	0.0214		mg/Kg		107	57 - 133
Carbon tetrachloride	0.0200	0.0188		mg/Kg		94	66 - 127
Chlorobenzene	0.0200	0.0204		mg/Kg		102	80 - 120
Chlorobromomethane	0.0200	0.0195		mg/Kg		97	76 - 127
Chloroethane	0.0200	0.0195		mg/Kg		98	60 - 123
Chloroform	0.0200	0.0206		mg/Kg		103	79 - 126
Chloromethane	0.0200	0.0181		mg/Kg		91	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0207		mg/Kg		103	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0207		mg/Kg		103	75 - 120
Cyclohexane	0.0200	0.0215		mg/Kg		108	65 - 132
Dibromochloromethane	0.0200	0.0183		mg/Kg		91	72 - 120
Dichlorodifluoromethane	0.0200	0.0158		mg/Kg		79	45 - 129
Ethylbenzene	0.0200	0.0210		mg/Kg		105	80 - 120
Isopropylbenzene	0.0200	0.0202		mg/Kg		101	74 - 120
Methyl acetate	0.0400	0.0378		mg/Kg		94	57 - 120
Methyl tert-butyl ether	0.0200	0.0194		mg/Kg		97	74 - 125
Methylcyclohexane	0.0200	0.0205		mg/Kg		103	66 - 125
Methylene Chloride	0.0200	0.0193		mg/Kg		97	78 - 120
m-Xylene & p-Xylene	0.0200	0.0201		mg/Kg		101	80 - 120
o-Xylene	0.0200	0.0204		mg/Kg		102	80 - 120
Styrene	0.0200	0.0201		mg/Kg		101	80 - 120
Tetrachloroethene	0.0200	0.0200		mg/Kg		100	73 - 120
Toluene	0.0200	0.0220		mg/Kg		110	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0214		mg/Kg		107	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0190		mg/Kg		95	77 - 120
Trichloroethene	0.0200	0.0202		mg/Kg		101	80 - 120
Trichlorofluoromethane	0.0200	0.0192		mg/Kg		96	61 - 130
Vinyl chloride	0.0200	0.0216		mg/Kg		108	54 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1023968/2
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*
4-Bromofluorobenzene	*103*		*71 - 128*
Dibromofluoromethane (Surr)	*106*		*50 - 150*
Toluene-d8 (Surr)	*109*		*71 - 126*

Lab Sample ID: LCSD 460-1023968/3
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0203		mg/Kg		101	78 - 120	1	30
1,1,2,2-Tetrachloroethane			0.0200	0.0217		mg/Kg		108	70 - 133	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0236		mg/Kg		118	75 - 121	1	30
1,1,2-Trichloroethane			0.0200	0.0216		mg/Kg		108	80 - 120	1	30
1,1-Dichloroethane			0.0200	0.0215		mg/Kg		107	72 - 120	1	30
1,1-Dichloroethene			0.0200	0.0220		mg/Kg		110	76 - 120	1	30
1,2,3-Trichlorobenzene			0.0200	0.0198		mg/Kg		99	77 - 137	1	30
1,2,4-Trichlorobenzene			0.0200	0.0200		mg/Kg		100	77 - 136	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0169		mg/Kg		85	80 - 124	1	30
1,2-Dibromoethane			0.0200	0.0194		mg/Kg		97	79 - 120	0	30
1,2-Dichlorobenzene			0.0200	0.0210		mg/Kg		105	80 - 120	1	30
1,2-Dichloroethane			0.0200	0.0181		mg/Kg		91	70 - 123	1	30
1,2-Dichloropropane			0.0200	0.0204		mg/Kg		102	73 - 124	2	30
1,3-Dichlorobenzene			0.0200	0.0218		mg/Kg		109	80 - 120	0	30
1,4-Dichlorobenzene			0.0200	0.0215		mg/Kg		108	80 - 120	1	30
2-Butanone (MEK)			0.100	0.0999		mg/Kg		100	64 - 128	3	30
2-Hexanone			0.100	0.0921		mg/Kg		92	75 - 120	3	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0965		mg/Kg		97	80 - 120	0	30
Acetone			0.100	0.0942		mg/Kg		94	58 - 122	3	30
Benzene			0.0200	0.0227		mg/Kg		113	75 - 120	0	30
Bromodichloromethane			0.0200	0.0191		mg/Kg		96	77 - 124	0	30
Bromoform			0.0200	0.0167		mg/Kg		84	61 - 125	1	30
Bromomethane			0.0200	0.0521	*+	mg/Kg		260	37 - 150	2	30
Carbon disulfide			0.0200	0.0217		mg/Kg		108	57 - 133	1	30
Carbon tetrachloride			0.0200	0.0187		mg/Kg		94	66 - 127	0	30
Chlorobenzene			0.0200	0.0207		mg/Kg		103	80 - 120	1	30
Chlorobromomethane			0.0200	0.0198		mg/Kg		99	76 - 127	1	30
Chloroethane			0.0200	0.0201		mg/Kg		100	60 - 123	3	30
Chloroform			0.0200	0.0207		mg/Kg		103	79 - 126	0	30
Chloromethane			0.0200	0.0188		mg/Kg		94	46 - 122	4	30
cis-1,2-Dichloroethene			0.0200	0.0211		mg/Kg		105	80 - 123	2	30
cis-1,3-Dichloropropene			0.0200	0.0209		mg/Kg		105	75 - 120	1	30
Cyclohexane			0.0200	0.0220		mg/Kg		110	65 - 132	2	30
Dibromochloromethane			0.0200	0.0185		mg/Kg		92	72 - 120	1	30
Dichlorodifluoromethane			0.0200	0.0164		mg/Kg		82	45 - 129	3	30
Ethylbenzene			0.0200	0.0207		mg/Kg		104	80 - 120	2	30
Isopropylbenzene			0.0200	0.0205		mg/Kg		102	74 - 120	1	30
Methyl acetate			0.0400	0.0384		mg/Kg		96	57 - 120	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1023968/3
Matrix: Solid
Analysis Batch: 1023968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether			0.0200	0.0193		mg/Kg		96	74 - 125	0	30
Methylcyclohexane			0.0200	0.0209		mg/Kg		105	66 - 125	2	30
Methylene Chloride			0.0200	0.0198		mg/Kg		99	78 - 120	3	30
m-Xylene & p-Xylene			0.0200	0.0200		mg/Kg		100	80 - 120	0	30
o-Xylene			0.0200	0.0205		mg/Kg		102	80 - 120	0	30
Styrene			0.0200	0.0205		mg/Kg		102	80 - 120	2	30
Tetrachloroethene			0.0200	0.0202		mg/Kg		101	73 - 120	1	30
Toluene			0.0200	0.0219		mg/Kg		110	80 - 120	1	30
trans-1,2-Dichloroethene			0.0200	0.0219		mg/Kg		109	78 - 120	2	30
trans-1,3-Dichloropropene			0.0200	0.0193		mg/Kg		96	77 - 120	2	30
Trichloroethene			0.0200	0.0201		mg/Kg		101	80 - 120	1	30
Trichlorofluoromethane			0.0200	0.0195		mg/Kg		98	61 - 130	1	30
Vinyl chloride			0.0200	0.0213		mg/Kg		106	54 - 122	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*
4-Bromofluorobenzene	*102*		*71 - 128*
Dibromofluoromethane (Surr)	*105*		*50 - 150*
Toluene-d8 (Surr)	*108*		*71 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-1017758/1-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		01/23/25 09:12	01/23/25 20:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1017758/1-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		01/23/25 09:12	01/23/25 20:27	1
Phenol	0.012	U	0.33	0.012	mg/Kg		01/23/25 09:12	01/23/25 20:27	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1017758/1-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		01/23/25 09:12	01/23/25 20:27	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*01/23/25 09:12*	*01/23/25 20:27*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*56*		*24 - 137*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
2-Fluorobiphenyl	*69*		*38 - 128*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
2-Fluorophenol (Surr)	*65*		*31 - 133*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
Nitrobenzene-d5 (Surr)	*64*		*31 - 120*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
Phenol-d5 (Surr)	*67*		*35 - 132*	*01/23/25 09:12*	*01/23/25 20:27*	*1*
Terphenyl-d14 (Surr)	*71*		*44 - 147*	*01/23/25 09:12*	*01/23/25 20:27*	*1*

Lab Sample ID: LCS 460-1017758/2-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	2.75		mg/Kg		82	64 - 120
1,2,4-Trichlorobenzene	3.33	2.58		mg/Kg		77	63 - 120
1,2-Dichlorobenzene	3.33	2.54		mg/Kg		76	64 - 120
1,2-Diphenylhydrazine	3.33	2.72		mg/Kg		82	55 - 125
1,3-Dichlorobenzene	3.33	2.49		mg/Kg		75	62 - 120
1,4-Dichlorobenzene	3.33	2.53		mg/Kg		76	60 - 120
2,4,5-Trichlorophenol	3.33	2.78		mg/Kg		83	64 - 120
2,4,6-Trichlorophenol	3.33	2.87		mg/Kg		86	65 - 120
2,4-Dichlorophenol	3.33	2.67		mg/Kg		80	66 - 120
2,4-Dimethylphenol	3.33	3.11		mg/Kg		93	46 - 120
2,4-Dinitrophenol	6.67	4.30		mg/Kg		65	41 - 129
2,4-Dinitrotoluene	3.33	2.81		mg/Kg		84	65 - 124
2,6-Dinitrotoluene	3.33	2.80		mg/Kg		84	67 - 121
2-Chloronaphthalene	3.33	2.65		mg/Kg		79	64 - 120
2-Chlorophenol	3.33	2.60		mg/Kg		78	63 - 120
2-Methylnaphthalene	3.33	2.31		mg/Kg		69	64 - 120
2-Methylphenol	3.33	2.72		mg/Kg		82	63 - 120
2-Nitroaniline	3.33	2.67		mg/Kg		80	48 - 120
2-Nitrophenol	3.33	2.65		mg/Kg		79	64 - 120
3,3'-Dichlorobenzidine	3.33	1.16		mg/Kg		35	10 - 120
3-Nitroaniline	3.33	1.28		mg/Kg		38	18 - 122
4,6-Dinitro-2-methylphenol	6.67	5.89		mg/Kg		88	58 - 136
4-Bromophenyl phenyl ether	3.33	2.78		mg/Kg		83	60 - 120
4-Chloro-3-methylphenol	3.33	2.66		mg/Kg		80	66 - 120
4-Chloroaniline	3.33	0.460		mg/Kg		14	10 - 120
4-Chlorophenyl phenyl ether	3.33	2.70		mg/Kg		81	62 - 120
4-Methylphenol	3.33	2.51		mg/Kg		75	61 - 120
4-Nitroaniline	3.33	2.40		mg/Kg		72	51 - 120
4-Nitrophenol	6.67	5.52		mg/Kg		83	42 - 132
Acenaphthene	3.33	2.72		mg/Kg		82	65 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1017758/2-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	3.33	2.81		mg/Kg		84	64 - 120
Acetophenone	3.33	2.58		mg/Kg		77	61 - 120
Anthracene	3.33	2.77		mg/Kg		83	67 - 120
Atrazine	1.33	1.31		mg/Kg		98	32 - 150
Benzaldehyde	1.33	1.21		mg/Kg		90	28 - 150
Benzidine	3.33	1.29		mg/Kg		39	10 - 120
Benzo[a]anthracene	3.33	2.72		mg/Kg		82	66 - 120
Benzo[a]pyrene	3.33	3.02		mg/Kg		91	73 - 123
Benzo[b]fluoranthene	3.33	2.93		mg/Kg		88	70 - 125
Benzo[g,h,i]perylene	3.33	3.11		mg/Kg		93	66 - 120
Benzo[k]fluoranthene	3.33	2.92		mg/Kg		87	67 - 122
bis (2-chloroisopropyl) ether	3.33	2.58		mg/Kg		77	46 - 126
Bis(2-chloroethoxy)methane	3.33	2.60		mg/Kg		78	62 - 120
Bis(2-chloroethyl)ether	3.33	2.58		mg/Kg		77	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	2.75		mg/Kg		82	64 - 125
Butyl benzyl phthalate	3.33	2.65		mg/Kg		80	62 - 127
Caprolactam	1.33	1.15		mg/Kg		86	36 - 150
Carbazole	3.33	2.77		mg/Kg		83	64 - 120
Chrysene	3.33	2.67		mg/Kg		80	67 - 120
Dibenz(a,h)anthracene	3.33	3.00		mg/Kg		90	66 - 128
Dibenzofuran	3.33	2.62		mg/Kg		79	61 - 120
Diethyl phthalate	3.33	2.64		mg/Kg		79	63 - 120
Dimethyl phthalate	3.33	2.64		mg/Kg		79	65 - 120
Di-n-butyl phthalate	3.33	2.63		mg/Kg		79	66 - 120
Di-n-octyl phthalate	3.33	2.81		mg/Kg		84	61 - 123
Fluoranthene	3.33	2.68		mg/Kg		80	61 - 120
Fluorene	3.33	2.76		mg/Kg		83	64 - 120
Hexachlorobenzene	3.33	2.73		mg/Kg		82	66 - 120
Hexachlorobutadiene	3.33	2.50		mg/Kg		75	62 - 120
Hexachlorocyclopentadiene	3.33	3.91		mg/Kg		117	13 - 120
Hexachloroethane	3.33	2.57		mg/Kg		77	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.04		mg/Kg		91	71 - 137
Isophorone	3.33	2.63		mg/Kg		79	61 - 120
Naphthalene	3.33	2.56		mg/Kg		77	63 - 120
Nitrobenzene	3.33	2.63		mg/Kg		79	63 - 120
N-Nitrosodimethylamine	3.33	2.47		mg/Kg		74	57 - 120
N-Nitrosodi-n-propylamine	3.33	2.69		mg/Kg		81	56 - 120
N-Nitrosodiphenylamine	3.33	2.80		mg/Kg		84	63 - 120
Pentachlorophenol	6.67	5.69		mg/Kg		85	61 - 126
Phenanthrene	3.33	2.73		mg/Kg		82	66 - 120
Phenol	3.33	2.61		mg/Kg		78	63 - 120
Pyrene	3.33	2.73		mg/Kg		82	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*70*		*24 - 137*
2-Fluorobiphenyl	*74*		*38 - 128*
2-Fluorophenol (Surr)	*70*		*31 - 133*
Nitrobenzene-d5 (Surr)	*70*		*31 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1017758/2-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017758

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*72*		*35 - 132*
Terphenyl-d14 (Surr)	*72*		*44 - 147*

Lab Sample ID: LCSD 460-1017758/3-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	2.47		mg/Kg		74	64 - 120	11	30
1,2,4-Trichlorobenzene			3.33	2.37		mg/Kg		71	63 - 120	9	30
1,2-Dichlorobenzene			3.33	2.32		mg/Kg		70	64 - 120	9	30
1,2-Diphenylhydrazine			3.33	2.49		mg/Kg		75	55 - 125	9	30
1,3-Dichlorobenzene			3.33	2.28		mg/Kg		68	62 - 120	9	30
1,4-Dichlorobenzene			3.33	2.30		mg/Kg		69	60 - 120	10	30
2,4,5-Trichlorophenol			3.33	2.51		mg/Kg		75	64 - 120	10	30
2,4,6-Trichlorophenol			3.33	2.60		mg/Kg		78	65 - 120	10	30
2,4-Dichlorophenol			3.33	2.46		mg/Kg		74	66 - 120	8	30
2,4-Dimethylphenol			3.33	2.88		mg/Kg		86	46 - 120	8	30
2,4-Dinitrophenol			6.67	3.63		mg/Kg		54	41 - 129	17	30
2,4-Dinitrotoluene			3.33	2.58		mg/Kg		77	65 - 124	8	30
2,6-Dinitrotoluene			3.33	2.59		mg/Kg		78	67 - 121	8	30
2-Chloronaphthalene			3.33	2.40		mg/Kg		72	64 - 120	10	30
2-Chlorophenol			3.33	2.37		mg/Kg		71	63 - 120	9	30
2-Methylnaphthalene			3.33	2.11	*-	mg/Kg		63	64 - 120	9	30
2-Methylphenol			3.33	2.48		mg/Kg		74	63 - 120	9	30
2-Nitroaniline			3.33	2.49		mg/Kg		75	48 - 120	7	30
2-Nitrophenol			3.33	2.46		mg/Kg		74	64 - 120	7	30
3,3'-Dichlorobenzidine			3.33	1.09		mg/Kg		33	10 - 120	6	30
3-Nitroaniline			3.33	1.21		mg/Kg		36	18 - 122	6	30
4,6-Dinitro-2-methylphenol			6.67	5.15		mg/Kg		77	58 - 136	13	30
4-Bromophenyl phenyl ether			3.33	2.53		mg/Kg		76	60 - 120	9	30
4-Chloro-3-methylphenol			3.33	2.45		mg/Kg		74	66 - 120	8	30
4-Chloroaniline			3.33	0.421		mg/Kg		13	10 - 120	9	30
4-Chlorophenyl phenyl ether			3.33	2.43		mg/Kg		73	62 - 120	10	30
4-Methylphenol			3.33	2.36		mg/Kg		71	61 - 120	6	30
4-Nitroaniline			3.33	2.22		mg/Kg		67	51 - 120	7	30
4-Nitrophenol			6.67	5.15		mg/Kg		77	42 - 132	7	30
Acenaphthene			3.33	2.44		mg/Kg		73	65 - 120	11	30
Acenaphthylene			3.33	2.57		mg/Kg		77	64 - 120	9	30
Acetophenone			3.33	2.38		mg/Kg		71	61 - 120	8	30
Anthracene			3.33	2.54		mg/Kg		76	67 - 120	9	30
Atrazine			1.33	1.24		mg/Kg		93	32 - 150	6	30
Benzaldehyde			1.33	1.06		mg/Kg		79	28 - 150	13	30
Benzidine			3.33	1.24		mg/Kg		37	10 - 120	4	30
Benzo[a]anthracene			3.33	2.54		mg/Kg		76	66 - 120	7	30
Benzo[a]pyrene			3.33	2.79		mg/Kg		84	73 - 123	8	30
Benzo[b]fluoranthene			3.33	2.65		mg/Kg		79	70 - 125	10	30
Benzo[g,h,i]perylene			3.33	2.87		mg/Kg		86	66 - 120	8	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1017758/3-A
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[k]fluoranthene			3.33	2.74		mg/Kg		82	67 - 122	6	30
bis (2-chloroisopropyl) ether			3.33	2.35		mg/Kg		70	46 - 126	10	30
Bis(2-chloroethoxy)methane			3.33	2.40		mg/Kg		72	62 - 120	8	30
Bis(2-chloroethyl)ether			3.33	2.37		mg/Kg		71	60 - 120	9	30
Bis(2-ethylhexyl) phthalate			3.33	2.56		mg/Kg		77	64 - 125	7	30
Butyl benzyl phthalate			3.33	2.43		mg/Kg		73	62 - 127	9	30
Caprolactam			1.33	1.22		mg/Kg		92	36 - 150	6	30
Carbazole			3.33	2.54		mg/Kg		76	64 - 120	9	30
Chrysene			3.33	2.48		mg/Kg		74	67 - 120	8	30
Dibenz(a,h)anthracene			3.33	2.76		mg/Kg		83	66 - 128	8	30
Dibenzofuran			3.33	2.42		mg/Kg		72	61 - 120	8	30
Diethyl phthalate			3.33	2.39		mg/Kg		72	63 - 120	10	30
Dimethyl phthalate			3.33	2.41		mg/Kg		72	65 - 120	9	30
Di-n-butyl phthalate			3.33	2.41		mg/Kg		72	66 - 120	9	30
Di-n-octyl phthalate			3.33	2.56		mg/Kg		77	61 - 123	9	30
Fluoranthene			3.33	2.51		mg/Kg		75	61 - 120	7	30
Fluorene			3.33	2.49		mg/Kg		75	64 - 120	10	30
Hexachlorobenzene			3.33	2.50		mg/Kg		75	66 - 120	9	30
Hexachlorobutadiene			3.33	2.27		mg/Kg		68	62 - 120	10	30
Hexachlorocyclopentadiene			3.33	3.31		mg/Kg		99	13 - 120	16	30
Hexachloroethane			3.33	2.34		mg/Kg		70	61 - 120	9	30
Indeno[1,2,3-cd]pyrene			3.33	2.89		mg/Kg		87	71 - 137	5	30
Isophorone			3.33	2.40		mg/Kg		72	61 - 120	9	30
Naphthalene			3.33	2.33		mg/Kg		70	63 - 120	9	30
Nitrobenzene			3.33	2.43		mg/Kg		73	63 - 120	8	30
N-Nitrosodimethylamine			3.33	2.23		mg/Kg		67	57 - 120	10	30
N-Nitrosodi-n-propylamine			3.33	2.47		mg/Kg		74	56 - 120	9	30
N-Nitrosodiphenylamine			3.33	2.53		mg/Kg		76	63 - 120	10	30
Pentachlorophenol			6.67	5.25		mg/Kg		79	61 - 126	8	30
Phenanthrene			3.33	2.52		mg/Kg		76	66 - 120	8	30
Phenol			3.33	2.39		mg/Kg		72	63 - 120	9	30
Pyrene			3.33	2.52		mg/Kg		76	61 - 121	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*63*		*24 - 137*
2-Fluorobiphenyl	*66*		*38 - 128*
2-Fluorophenol (Surr)	*62*		*31 - 133*
Nitrobenzene-d5 (Surr)	*63*		*31 - 120*
Phenol-d5 (Surr)	*65*		*35 - 132*
Terphenyl-d14 (Surr)	*65*		*44 - 147*

Lab Sample ID: 460-319135-I-15-A MS
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.012	U F1	3.38	1.69	F1	mg/Kg	☼	50	64 - 120
1,2,4-Trichlorobenzene	0.0086	U F1	3.38	1.84	F1	mg/Kg	☼	55	63 - 120

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319135-I-15-A MS
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	0.0057	U F1	3.38	1.84	F1	mg/Kg	☼	55	64 - 120
1,2-Diphenylhydrazine	0.013	U F1	3.38	1.47	F1	mg/Kg	☼	44	55 - 125
1,3-Dichlorobenzene	0.010	U F1	3.38	1.81	F1	mg/Kg	☼	54	62 - 120
1,4-Dichlorobenzene	0.013	U F1	3.38	1.83	F1	mg/Kg	☼	54	60 - 120
2,4,5-Trichlorophenol	0.034	U F1	3.38	1.36	F1	mg/Kg	☼	40	64 - 120
2,4,6-Trichlorophenol	0.043	U F1	3.38	1.53	F1	mg/Kg	☼	45	65 - 120
2,4-Dichlorophenol	0.022	U F1	3.38	1.52	F1	mg/Kg	☼	45	66 - 120
2,4-Dimethylphenol	0.040	U	3.38	1.76		mg/Kg	☼	52	46 - 120
2,4-Dinitrophenol	0.16	U F1	6.75	0.879	F1	mg/Kg	☼	13	41 - 129
2,4-Dinitrotoluene	0.036	U F1	3.38	1.26	F1	mg/Kg	☼	37	65 - 124
2,6-Dinitrotoluene	0.024	U F1	3.38	1.33	F1	mg/Kg	☼	40	67 - 121
2-Chloronaphthalene	0.016	U F1	3.38	1.69	F1	mg/Kg	☼	50	64 - 120
2-Chlorophenol	0.012	U F1	3.38	1.72	F1	mg/Kg	☼	51	63 - 120
2-Methylnaphthalene	0.0094	U F1 *-	3.38	1.52	F1	mg/Kg	☼	45	64 - 120
2-Methylphenol	0.013	U F1	3.38	1.64	F1	mg/Kg	☼	48	63 - 120
2-Nitroaniline	0.026	U F1	3.38	1.31	F1	mg/Kg	☼	39	48 - 120
2-Nitrophenol	0.034	U F1	3.38	1.68	F1	mg/Kg	☼	50	64 - 120
3,3'-Dichlorobenzidine	0.051	U F2	3.38	0.864		mg/Kg	☼	26	10 - 120
3-Nitroaniline	0.080	U F2	3.38	0.998		mg/Kg	☼	30	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U F1	6.75	1.40	F1	mg/Kg	☼	21	58 - 136
4-Bromophenyl phenyl ether	0.013	U F1	3.38	1.42	F1	mg/Kg	☼	42	60 - 120
4-Chloro-3-methylphenol	0.019	U F1	3.38	1.27	F1	mg/Kg	☼	38	66 - 120
4-Chloroaniline	0.060	U	3.38	1.25		mg/Kg	☼	37	10 - 120
4-Chlorophenyl phenyl ether	0.012	U F1	3.38	1.53	F1	mg/Kg	☼	45	62 - 120
4-Methylphenol	0.021	U F1	3.38	1.47	F1	mg/Kg	☼	43	61 - 120
4-Nitroaniline	0.039	U F1 F2	3.38	0.959	F1	mg/Kg	☼	28	51 - 120
4-Nitrophenol	0.055	U F1 F2	6.75	1.92	F1	mg/Kg	☼	28	42 - 132
Acenaphthene	0.0096	U F1	3.38	1.62	F1	mg/Kg	☼	48	65 - 120
Acenaphthylene	0.0096	U F1	3.38	1.67	F1	mg/Kg	☼	49	64 - 120
Acetophenone	0.016	U F1	3.38	1.72	F1	mg/Kg	☼	51	61 - 120
Anthracene	0.010	U F1	3.38	1.40	F1	mg/Kg	☼	41	67 - 120
Atrazine	0.020	U F2	1.35	0.497		mg/Kg	☼	37	32 - 150
Benzaldehyde	0.055	U	1.35	0.887		mg/Kg	☼	66	28 - 150
Benzidine	0.070	U F2	3.38	0.359		mg/Kg	☼	11	10 - 120
Benzo[a]anthracene	0.025	U F1 F2	3.38	1.03	F1	mg/Kg	☼	31	66 - 120
Benzo[a]pyrene	0.0089	U F1 F2	3.38	1.05	F1	mg/Kg	☼	31	73 - 123
Benzo[b]fluoranthene	0.0087	U F1 F2	3.38	1.01	F1	mg/Kg	☼	30	70 - 125
Benzo[g,h,i]perylene	0.0099	U F1 F2	3.38	1.01	F1	mg/Kg	☼	30	66 - 120
Benzo[k]fluoranthene	0.0066	U F1 F2	3.38	1.04	F1	mg/Kg	☼	31	67 - 122
bis (2-chloroisopropyl) ether	0.020	U F1	3.38	1.80		mg/Kg	☼	53	46 - 126
Bis(2-chloroethoxy)methane	0.026	U F1	3.38	1.28	F1	mg/Kg	☼	38	62 - 120
Bis(2-chloroethyl)ether	0.012	U F1	3.38	1.80	F1	mg/Kg	☼	53	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U F1 F2	3.38	0.955	F1	mg/Kg	☼	28	64 - 125
Butyl benzyl phthalate	0.016	U F1 F2	3.38	0.870	F1	mg/Kg	☼	26	62 - 127
Caprolactam	0.052	U F2	1.35	0.480		mg/Kg	☼	36	36 - 150
Carbazole	0.013	U F1 F2	3.38	1.09	F1	mg/Kg	☼	32	64 - 120
Chrysene	0.014	U F1 F2	3.38	1.02	F1	mg/Kg	☼	30	67 - 120
Dibenz(a,h)anthracene	0.015	U F1 F2	3.38	0.985	F1	mg/Kg	☼	29	66 - 128
Dibenzofuran	0.011	U F1	3.38	1.55	F1	mg/Kg	☼	46	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319135-I-15-A MS
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diethyl phthalate	0.011	U F1 F2	3.38	1.18	F1	mg/Kg	☼	35	63 - 120
Dimethyl phthalate	0.076	U F1	3.38	1.25	F1	mg/Kg	☼	37	65 - 120
Di-n-butyl phthalate	0.013	U F1 F2	3.38	1.04	F1	mg/Kg	☼	31	66 - 120
Di-n-octyl phthalate	0.018	U F1 F2	3.38	0.899	F1	mg/Kg	☼	27	61 - 123
Fluoranthene	0.012	U F1 F2	3.38	1.18	F1	mg/Kg	☼	35	61 - 120
Fluorene	0.0098	U F1	3.38	1.55	F1	mg/Kg	☼	46	64 - 120
Hexachlorobenzene	0.016	U F1	3.38	1.56	F1	mg/Kg	☼	46	66 - 120
Hexachlorobutadiene	0.0071	U F1	3.38	1.78	F1	mg/Kg	☼	53	62 - 120
Hexachlorocyclopentadiene	0.029	U	3.38	2.45		mg/Kg	☼	73	13 - 120
Hexachloroethane	0.012	U F1	3.38	1.82	F1	mg/Kg	☼	54	61 - 120
Indeno[1,2,3-cd]pyrene	0.013	U F1 F2	3.38	0.956	F1	mg/Kg	☼	28	71 - 137
Isophorone	0.097	U F1	3.38	1.59	F1	mg/Kg	☼	47	61 - 120
Naphthalene	0.0058	U F1	3.38	1.78	F1	mg/Kg	☼	53	63 - 120
Nitrobenzene	0.019	U F1	3.38	1.75	F1	mg/Kg	☼	52	63 - 120
N-Nitrosodimethylamine	0.031	U F1	3.38	1.69	F1	mg/Kg	☼	50	57 - 120
N-Nitrosodi-n-propylamine	0.024	U F1	3.38	1.75	F1	mg/Kg	☼	52	56 - 120
N-Nitrosodiphenylamine	0.028	U F1	3.38	1.32	F1	mg/Kg	☼	39	63 - 120
Pentachlorophenol	0.069	U F1 F2	6.75	2.32	F1	mg/Kg	☼	34	61 - 126
Phenanthrene	0.014	U F1	3.38	1.39	F1	mg/Kg	☼	41	66 - 120
Phenol	0.012	U F1	3.38	1.56	F1	mg/Kg	☼	46	63 - 120
Pyrene	0.0083	U F1 F2	3.38	1.18	F1	mg/Kg	☼	35	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*32*		*24 - 137*
2-Fluorobiphenyl	*45*		*38 - 128*
2-Fluorophenol (Surr)	*45*		*31 - 133*
Nitrobenzene-d5 (Surr)	*44*		*31 - 120*
Phenol-d5 (Surr)	*40*		*35 - 132*
Terphenyl-d14 (Surr)	*29*	*S1-*	*44 - 147*

Lab Sample ID: 460-319135-I-15-B MSD
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U F1	3.38	1.64	F1	mg/Kg	☼	49	64 - 120	3	30
1,2,4-Trichlorobenzene	0.0086	U F1	3.38	1.55	F1	mg/Kg	☼	46	63 - 120	17	30
1,2-Dichlorobenzene	0.0057	U F1	3.38	1.51	F1	mg/Kg	☼	45	64 - 120	20	30
1,2-Diphenylhydrazine	0.013	U F1	3.38	1.71	F1	mg/Kg	☼	50	55 - 125	15	30
1,3-Dichlorobenzene	0.010	U F1	3.38	1.45	F1	mg/Kg	☼	43	62 - 120	22	30
1,4-Dichlorobenzene	0.013	U F1	3.38	1.47	F1	mg/Kg	☼	43	60 - 120	22	30
2,4,5-Trichlorophenol	0.034	U F1	3.38	1.68	F1	mg/Kg	☼	50	64 - 120	21	30
2,4,6-Trichlorophenol	0.043	U F1	3.38	1.71	F1	mg/Kg	☼	51	65 - 120	11	30
2,4-Dichlorophenol	0.022	U F1	3.38	1.67	F1	mg/Kg	☼	49	66 - 120	9	30
2,4-Dimethylphenol	0.040	U	3.38	1.93		mg/Kg	☼	57	46 - 120	9	30
2,4-Dinitrophenol	0.16	U F1	6.77	0.913	F1	mg/Kg	☼	13	41 - 129	4	30
2,4-Dinitrotoluene	0.036	U F1	3.38	1.71	F1	mg/Kg	☼	51	65 - 124	30	30
2,6-Dinitrotoluene	0.024	U F1	3.38	1.73	F1	mg/Kg	☼	51	67 - 121	26	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319135-I-15-B MSD
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene	0.016	U F1	3.38	1.58	F1	mg/Kg	☼	47	64 - 120	6	30
2-Chlorophenol	0.012	U F1	3.38	1.59	F1	mg/Kg	☼	47	63 - 120	8	30
2-Methylnaphthalene	0.0094	U F1 *-	3.38	1.43	F1	mg/Kg	☼	42	64 - 120	7	30
2-Methylphenol	0.013	U F1	3.38	1.67	F1	mg/Kg	☼	49	63 - 120	2	30
2-Nitroaniline	0.026	U F1	3.38	1.64		mg/Kg	☼	49	48 - 120	23	30
2-Nitrophenol	0.034	U F1	3.38	1.57	F1	mg/Kg	☼	46	64 - 120	7	30
3,3'-Dichlorobenzidine	0.051	U F2	3.38	1.64	F2	mg/Kg	☼	49	10 - 120	62	30
3-Nitroaniline	0.080	U F2	3.38	1.59	F2	mg/Kg	☼	47	18 - 122	46	30
4,6-Dinitro-2-methylphenol	0.14	U F1	6.77	1.52	F1	mg/Kg	☼	22	58 - 136	9	30
4-Bromophenyl phenyl ether	0.013	U F1	3.38	1.73	F1	mg/Kg	☼	51	60 - 120	20	30
4-Chloro-3-methylphenol	0.019	U F1	3.38	1.64	F1	mg/Kg	☼	48	66 - 120	25	30
4-Chloroaniline	0.060	U	3.38	1.56		mg/Kg	☼	46	10 - 120	22	30
4-Chlorophenyl phenyl ether	0.012	U F1	3.38	1.63	F1	mg/Kg	☼	48	62 - 120	6	30
4-Methylphenol	0.021	U F1	3.38	1.59	F1	mg/Kg	☼	47	61 - 120	8	30
4-Nitroaniline	0.039	U F1 F2	3.38	1.57	F1 F2	mg/Kg	☼	47	51 - 120	49	30
4-Nitrophenol	0.055	U F1 F2	6.77	3.23	F2	mg/Kg	☼	48	42 - 132	51	30
Acenaphthene	0.0096	U F1	3.38	1.63	F1	mg/Kg	☼	48	65 - 120	1	30
Acenaphthylene	0.0096	U F1	3.38	1.70	F1	mg/Kg	☼	50	64 - 120	2	30
Acetophenone	0.016	U F1	3.38	1.58	F1	mg/Kg	☼	47	61 - 120	9	30
Anthracene	0.010	U F1	3.38	1.74	F1	mg/Kg	☼	51	67 - 120	22	30
Atrazine	0.020	U F2	1.35	0.818	F2	mg/Kg	☼	60	32 - 150	49	30
Benzaldehyde	0.055	U	1.35	0.702		mg/Kg	☼	52	28 - 150	23	30
Benzidine	0.070	U F2	3.38	0.631	F2	mg/Kg	☼	19	10 - 120	55	30
Benzo[a]anthracene	0.025	U F1 F2	3.38	1.70	F1 F2	mg/Kg	☼	50	66 - 120	49	30
Benzo[a]pyrene	0.0089	U F1 F2	3.38	1.87	F1 F2	mg/Kg	☼	55	73 - 123	56	30
Benzo[b]fluoranthene	0.0087	U F1 F2	3.38	1.78	F1 F2	mg/Kg	☼	53	70 - 125	56	30
Benzo[g,h,i]perylene	0.0099	U F1 F2	3.38	1.87	F1 F2	mg/Kg	☼	55	66 - 120	60	30
Benzo[k]fluoranthene	0.0066	U F1 F2	3.38	1.80	F1 F2	mg/Kg	☼	53	67 - 122	53	30
bis (2-chloroisopropyl) ether	0.020	U F1	3.38	1.50	F1	mg/Kg	☼	44	46 - 126	18	30
Bis(2-chloroethoxy)methane	0.026	U F1	3.38	1.57	F1	mg/Kg	☼	46	62 - 120	20	30
Bis(2-chloroethyl)ether	0.012	U F1	3.38	1.54	F1	mg/Kg	☼	46	60 - 120	15	30
Bis(2-ethylhexyl) phthalate	0.018	U F1 F2	3.38	1.70	F1 F2	mg/Kg	☼	50	64 - 125	56	30
Butyl benzyl phthalate	0.016	U F1 F2	3.38	1.62	F1 F2	mg/Kg	☼	48	62 - 127	60	30
Caprolactam	0.052	U F2	1.35	0.770	F2	mg/Kg	☼	57	36 - 150	46	30
Carbazole	0.013	U F1 F2	3.38	1.73	F1 F2	mg/Kg	☼	51	64 - 120	45	30
Chrysene	0.014	U F1 F2	3.38	1.65	F1 F2	mg/Kg	☼	49	67 - 120	47	30
Dibenz(a,h)anthracene	0.015	U F1 F2	3.38	1.83	F1 F2	mg/Kg	☼	54	66 - 128	60	30
Dibenzofuran	0.011	U F1	3.38	1.61	F1	mg/Kg	☼	48	61 - 120	4	30
Diethyl phthalate	0.011	U F1 F2	3.38	1.60	F1 F2	mg/Kg	☼	47	63 - 120	31	30
Dimethyl phthalate	0.076	U F1	3.38	1.66	F1	mg/Kg	☼	49	65 - 120	28	30
Di-n-butyl phthalate	0.013	U F1 F2	3.38	1.63	F1 F2	mg/Kg	☼	48	66 - 120	44	30
Di-n-octyl phthalate	0.018	U F1 F2	3.38	1.68	F1 F2	mg/Kg	☼	50	61 - 123	61	30
Fluoranthene	0.012	U F1 F2	3.38	1.70	F1 F2	mg/Kg	☼	50	61 - 120	36	30
Fluorene	0.0098	U F1	3.38	1.68	F1	mg/Kg	☼	50	64 - 120	8	30
Hexachlorobenzene	0.016	U F1	3.38	1.71	F1	mg/Kg	☼	50	66 - 120	9	30
Hexachlorobutadiene	0.0071	U F1	3.38	1.47	F1	mg/Kg	☼	44	62 - 120	19	30
Hexachlorocyclopentadiene	0.029	U	3.38	2.32		mg/Kg	☼	69	13 - 120	5	30
Hexachloroethane	0.012	U F1	3.38	1.49	F1	mg/Kg	☼	44	61 - 120	20	30
Indeno[1,2,3-cd]pyrene	0.013	U F1 F2	3.38	1.82	F1 F2	mg/Kg	☼	54	71 - 137	62	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319135-I-15-B MSD
Matrix: Solid
Analysis Batch: 1017845

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isophorone	0.097	U F1	3.38	1.61	F1	mg/Kg	☼	48	61 - 120	2	30
Naphthalene	0.0058	U F1	3.38	1.54	F1	mg/Kg	☼	46	63 - 120	14	30
Nitrobenzene	0.019	U F1	3.38	1.58	F1	mg/Kg	☼	47	63 - 120	10	30
N-Nitrosodimethylamine	0.031	U F1	3.38	1.54	F1	mg/Kg	☼	46	57 - 120	9	30
N-Nitrosodi-n-propylamine	0.024	U F1	3.38	1.65	F1	mg/Kg	☼	49	56 - 120	6	30
N-Nitrosodiphenylamine	0.028	U F1	3.38	1.76	F1	mg/Kg	☼	52	63 - 120	28	30
Pentachlorophenol	0.069	U F1 F2	6.77	3.24	F1 F2	mg/Kg	☼	48	61 - 126	33	30
Phenanthrene	0.014	U F1	3.38	1.72	F1	mg/Kg	☼	51	66 - 120	21	30
Phenol	0.012	U F1	3.38	1.65	F1	mg/Kg	☼	49	63 - 120	5	30
Pyrene	0.0083	U F1 F2	3.38	1.69	F1 F2	mg/Kg	☼	50	61 - 121	36	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*41*		*24 - 137*
2-Fluorobiphenyl	*42*		*38 - 128*
2-Fluorophenol (Surr)	*40*		*31 - 133*
Nitrobenzene-d5 (Surr)	*40*		*31 - 120*
Phenol-d5 (Surr)	*43*		*35 - 132*
Terphenyl-d14 (Surr)	*43*	*S1-*	*44 - 147*

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,2,4-Trichlorobenzene	0.64	U	2.0	0.64	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,2-Dichlorobenzene	0.50	U	10	0.50	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,2-Diphenylhydrazine	0.79	U	10	0.79	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,3-Dichlorobenzene	2.0	U	10	2.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
1,4-Dichlorobenzene	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dinitrophenol	11	U	40	11	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Chlorophenol	0.95	U	10	0.95	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Methylphenol	0.67	U	10	0.67	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Nitroaniline	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:24	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		01/23/25 10:04	01/23/25 21:24	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 21:24	1
4,6-Dinitro-2-methylphenol	8.6	U	20	8.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Chloro-3-methylphenol	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	1.9	U	10	1.9	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Methylphenol	0.65	U	10	0.65	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acenaphthene	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acenaphthylene	0.82	U	10	0.82	ug/L		01/23/25 10:04	01/23/25 21:24	1
Acetophenone	2.3	U	10	2.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Anthracene	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Atrazine	1.3	U	2.0	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzaldehyde	2.1	U	10	2.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzidine	2.8	U	20	2.8	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		01/23/25 10:04	01/23/25 21:24	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		01/23/25 10:04	01/23/25 21:24	1
bis (2-chloroisopropyl) ether	0.63	U	10	0.63	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		01/23/25 10:04	01/23/25 21:24	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		01/23/25 10:04	01/23/25 21:24	1
Caprolactam	2.2	U	10	2.2	ug/L		01/23/25 10:04	01/23/25 21:24	1
Carbazole	0.68	U	10	0.68	ug/L		01/23/25 10:04	01/23/25 21:24	1
Chrysene	0.91	U	2.0	0.91	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dibenzofuran	1.1	U	10	1.1	ug/L		01/23/25 10:04	01/23/25 21:24	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		01/23/25 10:04	01/23/25 21:24	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		01/23/25 10:04	01/23/25 21:24	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 21:24	1
Di-n-octyl phthalate	4.0	U	10	4.0	ug/L		01/23/25 10:04	01/23/25 21:24	1
Fluoranthene	0.84	U	10	0.84	ug/L		01/23/25 10:04	01/23/25 21:24	1
Fluorene	0.91	U	10	0.91	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		01/23/25 10:04	01/23/25 21:24	1
Isophorone	0.80	U	10	0.80	ug/L		01/23/25 10:04	01/23/25 21:24	1
Naphthalene	0.54	U	2.0	0.54	ug/L		01/23/25 10:04	01/23/25 21:24	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		01/23/25 10:04	01/23/25 21:24	1
N-Nitrosodimethylamine	0.45	U	10	0.45	ug/L		01/23/25 10:04	01/23/25 21:24	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		01/23/25 10:04	01/23/25 21:24	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		01/23/25 10:04	01/23/25 21:24	1
Pentachlorophenol	6.6	U	20	6.6	ug/L		01/23/25 10:04	01/23/25 21:24	1
Phenanthrene	1.3	U	10	1.3	ug/L		01/23/25 10:04	01/23/25 21:24	1
Phenol	0.29	U	10	0.29	ug/L		01/23/25 10:04	01/23/25 21:24	1
Pyrene	1.6	U	10	1.6	ug/L		01/23/25 10:04	01/23/25 21:24	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1017771/1-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017771

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/23/25 10:04	01/23/25 21:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		37 - 150	01/23/25 10:04	01/23/25 21:24	1
2-Fluorobiphenyl	89		46 - 139	01/23/25 10:04	01/23/25 21:24	1
2-Fluorophenol (Surr)	54		16 - 80	01/23/25 10:04	01/23/25 21:24	1
Nitrobenzene-d5 (Surr)	91		51 - 145	01/23/25 10:04	01/23/25 21:24	1
Phenol-d5 (Surr)	36		10 - 56	01/23/25 10:04	01/23/25 21:24	1
Terphenyl-d14 (Surr)	30		13 - 159	01/23/25 10:04	01/23/25 21:24	1

Lab Sample ID: LCS 460-1017771/2-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	91.6		ug/L		115	52 - 129
1,2,4-Trichlorobenzene	80.0	87.9		ug/L		110	20 - 135
1,2-Dichlorobenzene	80.0	83.5		ug/L		104	18 - 128
1,2-Diphenylhydrazine	80.0	92.5		ug/L		116	58 - 130
1,3-Dichlorobenzene	80.0	82.3		ug/L		103	11 - 130
1,4-Dichlorobenzene	80.0	83.4		ug/L		104	14 - 129
2,4,5-Trichlorophenol	80.0	89.9		ug/L		112	63 - 124
2,4,6-Trichlorophenol	80.0	90.4		ug/L		113	66 - 131
2,4-Dichlorophenol	80.0	82.8		ug/L		104	60 - 120
2,4-Dimethylphenol	80.0	93.0		ug/L		116	37 - 120
2,4-Dinitrophenol	160	165		ug/L		103	50 - 148
2,4-Dinitrotoluene	80.0	97.0		ug/L		121	71 - 142
2,6-Dinitrotoluene	80.0	93.9		ug/L		117	71 - 136
2-Chloronaphthalene	80.0	89.4		ug/L		112	50 - 129
2-Chlorophenol	80.0	71.3		ug/L		89	49 - 120
2-Methylnaphthalene	80.0	77.8		ug/L		97	42 - 134
2-Methylphenol	80.0	64.3		ug/L		80	35 - 120
2-Nitroaniline	80.0	89.0		ug/L		111	57 - 134
2-Nitrophenol	80.0	85.9		ug/L		107	62 - 124
3,3'-Dichlorobenzidine	80.0	80.5		ug/L		101	55 - 145
3-Nitroaniline	80.0	71.5		ug/L		89	51 - 120
4,6-Dinitro-2-methylphenol	160	183		ug/L		115	65 - 145
4-Bromophenyl phenyl ether	80.0	90.6		ug/L		113	59 - 132
4-Chloro-3-methylphenol	80.0	77.1		ug/L		96	54 - 120
4-Chloroaniline	80.0	66.0		ug/L		82	43 - 120
4-Chlorophenyl phenyl ether	80.0	91.7		ug/L		115	65 - 127
4-Methylphenol	80.0	55.8		ug/L		70	28 - 120
4-Nitroaniline	80.0	88.7		ug/L		111	57 - 135
4-Nitrophenol	160	76.9		ug/L		48	10 - 120
Acenaphthene	80.0	91.0		ug/L		114	62 - 127
Acenaphthylene	80.0	96.2		ug/L		120	58 - 122
Acetophenone	80.0	86.4		ug/L		108	65 - 125
Anthracene	80.0	91.9		ug/L		115	67 - 127

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1017771/2-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	40.0	76.4	*+	ug/L		191	13 - 150
Benzaldehyde	40.0	65.0	*+	ug/L		163	10 - 150
Benzidine	80.0	12.3	J	ug/L		15	10 - 120
Benzo[a]anthracene	80.0	89.0		ug/L		111	71 - 131
Benzo[a]pyrene	80.0	107		ug/L		134	75 - 148
Benzo[b]fluoranthene	80.0	94.1		ug/L		118	70 - 140
Benzo[g,h,i]perylene	80.0	103		ug/L		129	52 - 143
Benzo[k]fluoranthene	80.0	101		ug/L		127	71 - 140
bis (2-chloroisopropyl) ether	80.0	83.8		ug/L		105	47 - 133
Bis(2-chloroethoxy)methane	80.0	88.6		ug/L		111	63 - 122
Bis(2-chloroethyl)ether	80.0	85.6		ug/L		107	61 - 125
Bis(2-ethylhexyl) phthalate	80.0	93.5		ug/L		117	65 - 144
Butyl benzyl phthalate	80.0	89.1		ug/L		111	67 - 141
Caprolactam	40.0	13.8		ug/L		35	10 - 120
Carbazole	80.0	91.4		ug/L		114	68 - 132
Chrysene	80.0	91.3		ug/L		114	70 - 132
Dibenz(a,h)anthracene	80.0	99.2		ug/L		124	53 - 150
Dibenzofuran	80.0	90.7		ug/L		113	64 - 125
Diethyl phthalate	80.0	88.0		ug/L		110	67 - 131
Dimethyl phthalate	80.0	91.1		ug/L		114	67 - 129
Di-n-butyl phthalate	80.0	88.1		ug/L		110	71 - 139
Di-n-octyl phthalate	80.0	92.9		ug/L		116	51 - 150
Fluoranthene	80.0	92.8		ug/L		116	69 - 137
Fluorene	80.0	94.0		ug/L		117	67 - 125
Hexachlorobenzene	80.0	90.9		ug/L		114	62 - 135
Hexachlorobutadiene	80.0	88.7		ug/L		111	10 - 147
Hexachlorocyclopentadiene	80.0	116	*+	ug/L		146	10 - 135
Hexachloroethane	80.0	86.5		ug/L		108	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	99.5		ug/L		124	59 - 150
Isophorone	80.0	91.9		ug/L		115	65 - 128
Naphthalene	80.0	88.3		ug/L		110	39 - 126
Nitrobenzene	80.0	91.0		ug/L		114	66 - 127
N-Nitrosodimethylamine	80.0	41.4		ug/L		52	11 - 120
N-Nitrosodi-n-propylamine	80.0	89.4		ug/L		112	63 - 133
N-Nitrosodiphenylamine	80.0	90.3		ug/L		113	66 - 128
Pentachlorophenol	160	180		ug/L		112	60 - 140
Phenanthrene	80.0	90.1		ug/L		113	68 - 126
Phenol	80.0	31.0		ug/L		39	10 - 80
Pyrene	80.0	87.8		ug/L		110	60 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*111*		*37 - 150*
2-Fluorobiphenyl	*111*		*46 - 139*
2-Fluorophenol (Surr)	*54*		*16 - 80*
Nitrobenzene-d5 (Surr)	*110*		*51 - 145*
Phenol-d5 (Surr)	*36*		*10 - 56*
Terphenyl-d14 (Surr)	*84*		*13 - 159*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1017771/3-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	82.9		ug/L		104	52 - 129	10	30
1,2,4-Trichlorobenzene			80.0	78.5		ug/L		98	20 - 135	11	30
1,2-Dichlorobenzene			80.0	76.3		ug/L		95	18 - 128	9	30
1,2-Diphenylhydrazine			80.0	85.6		ug/L		107	58 - 130	8	30
1,3-Dichlorobenzene			80.0	75.9		ug/L		95	11 - 130	8	30
1,4-Dichlorobenzene			80.0	75.6		ug/L		95	14 - 129	10	30
2,4,5-Trichlorophenol			80.0	80.8		ug/L		101	63 - 124	11	30
2,4,6-Trichlorophenol			80.0	83.8		ug/L		105	66 - 131	8	30
2,4-Dichlorophenol			80.0	76.9		ug/L		96	60 - 120	7	30
2,4-Dimethylphenol			80.0	86.4		ug/L		108	37 - 120	7	30
2,4-Dinitrophenol			160	155		ug/L		97	50 - 148	6	30
2,4-Dinitrotoluene			80.0	86.8		ug/L		108	71 - 142	11	30
2,6-Dinitrotoluene			80.0	85.7		ug/L		107	71 - 136	9	30
2-Chloronaphthalene			80.0	80.9		ug/L		101	50 - 129	10	30
2-Chlorophenol			80.0	68.2		ug/L		85	49 - 120	4	30
2-Methylnaphthalene			80.0	71.2		ug/L		89	42 - 134	9	30
2-Methylphenol			80.0	62.6		ug/L		78	35 - 120	3	30
2-Nitroaniline			80.0	81.7		ug/L		102	57 - 134	9	30
2-Nitrophenol			80.0	77.4		ug/L		97	62 - 124	10	30
3,3'-Dichlorobenzidine			80.0	63.9		ug/L		80	55 - 145	23	30
3-Nitroaniline			80.0	60.2		ug/L		75	51 - 120	17	30
4,6-Dinitro-2-methylphenol			160	172		ug/L		107	65 - 145	7	30
4-Bromophenyl phenyl ether			80.0	82.9		ug/L		104	59 - 132	9	30
4-Chloro-3-methylphenol			80.0	74.1		ug/L		93	54 - 120	4	30
4-Chloroaniline			80.0	49.4		ug/L		62	43 - 120	29	30
4-Chlorophenyl phenyl ether			80.0	82.5		ug/L		103	65 - 127	10	30
4-Methylphenol			80.0	56.8		ug/L		71	28 - 120	2	30
4-Nitroaniline			80.0	78.0		ug/L		97	57 - 135	13	30
4-Nitrophenol			160	88.2		ug/L		55	10 - 120	14	30
Acenaphthene			80.0	81.5		ug/L		102	62 - 127	11	30
Acenaphthylene			80.0	86.5		ug/L		108	58 - 122	11	30
Acetophenone			80.0	80.0		ug/L		100	65 - 125	8	30
Anthracene			80.0	83.3		ug/L		104	67 - 127	10	30
Atrazine			40.0	50.8	*1	ug/L		127	13 - 150	40	30
Benzaldehyde			40.0	45.5	*1	ug/L		114	10 - 150	35	30
Benzidine			80.0	33.6	*1	ug/L		42	10 - 120	93	30
Benzo[a]anthracene			80.0	81.3		ug/L		102	71 - 131	9	30
Benzo[a]pyrene			80.0	95.0		ug/L		119	75 - 148	12	30
Benzo[b]fluoranthene			80.0	85.1		ug/L		106	70 - 140	10	30
Benzo[g,h,i]perylene			80.0	93.7		ug/L		117	52 - 143	10	30
Benzo[k]fluoranthene			80.0	89.5		ug/L		112	71 - 140	12	30
bis (2-chloroisopropyl) ether			80.0	77.5		ug/L		97	47 - 133	8	30
Bis(2-chloroethoxy)methane			80.0	80.4		ug/L		100	63 - 122	10	30
Bis(2-chloroethyl)ether			80.0	77.3		ug/L		97	61 - 125	10	30
Bis(2-ethylhexyl) phthalate			80.0	85.3		ug/L		107	65 - 144	9	30
Butyl benzyl phthalate			80.0	81.8		ug/L		102	67 - 141	9	30
Caprolactam			40.0	11.0		ug/L		27	10 - 120	23	30
Carbazole			80.0	82.9		ug/L		104	68 - 132	10	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1017771/3-A
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chrysene			80.0	81.2		ug/L		101	70 - 132	12	30
Dibenz(a,h)anthracene			80.0	90.1		ug/L		113	53 - 150	10	30
Dibenzofuran			80.0	81.0		ug/L		101	64 - 125	11	30
Diethyl phthalate			80.0	78.7		ug/L		98	67 - 131	11	30
Dimethyl phthalate			80.0	82.8		ug/L		103	67 - 129	10	30
Di-n-butyl phthalate			80.0	79.5		ug/L		99	71 - 139	10	30
Di-n-octyl phthalate			80.0	84.3		ug/L		105	51 - 150	10	30
Fluoranthene			80.0	84.9		ug/L		106	69 - 137	9	30
Fluorene			80.0	84.8		ug/L		106	67 - 125	10	30
Hexachlorobenzene			80.0	82.8		ug/L		104	62 - 135	9	30
Hexachlorobutadiene			80.0	80.1		ug/L		100	10 - 147	10	30
Hexachlorocyclopentadiene			80.0	106		ug/L		132	10 - 135	9	30
Hexachloroethane			80.0	80.4		ug/L		101	10 - 138	7	30
Indeno[1,2,3-cd]pyrene			80.0	91.0		ug/L		114	59 - 150	9	30
Isophorone			80.0	82.3		ug/L		103	65 - 128	11	30
Naphthalene			80.0	79.8		ug/L		100	39 - 126	10	30
Nitrobenzene			80.0	80.4		ug/L		101	66 - 127	12	30
N-Nitrosodimethylamine			80.0	41.7		ug/L		52	11 - 120	1	30
N-Nitrosodi-n-propylamine			80.0	80.9		ug/L		101	63 - 133	10	30
N-Nitrosodiphenylamine			80.0	84.4		ug/L		105	66 - 128	7	30
Pentachlorophenol			160	168		ug/L		105	60 - 140	7	30
Phenanthrene			80.0	81.6		ug/L		102	68 - 126	10	30
Phenol			80.0	33.8		ug/L		42	10 - 80	9	30
Pyrene			80.0	80.7		ug/L		101	60 - 137	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*37 - 150*
2-Fluorobiphenyl	*96*		*46 - 139*
2-Fluorophenol (Surr)	*55*		*16 - 80*
Nitrobenzene-d5 (Surr)	*96*		*51 - 145*
Phenol-d5 (Surr)	*38*		*10 - 56*
Terphenyl-d14 (Surr)	*70*		*13 - 159*

Lab Sample ID: 460-319158-S-2-A MSD
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	1.2	U	40.0	46.1		ug/L		115	52 - 129	9	30
1,2,4-Trichlorobenzene	0.64	U	40.0	43.0		ug/L		107	20 - 135	7	30
1,2-Dichlorobenzene	0.50	U	40.0	42.4		ug/L		106	18 - 128	6	30
1,2-Diphenylhydrazine	0.79	U	40.0	46.2		ug/L		116	58 - 130	11	30
1,3-Dichlorobenzene	2.0	U	40.0	41.2		ug/L		103	11 - 130	8	30
1,4-Dichlorobenzene	1.1	U	40.0	41.6		ug/L		104	14 - 129	8	30
2,4,5-Trichlorophenol	0.88	U	40.0	44.5		ug/L		111	63 - 124	10	30
2,4,6-Trichlorophenol	0.86	U	40.0	46.4		ug/L		116	66 - 131	8	30
2,4-Dichlorophenol	1.1	U	40.0	41.6		ug/L		104	60 - 120	9	30
2,4-Dimethylphenol	0.72	J F1	40.0	49.3	F1	ug/L		121	37 - 120	11	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319158-S-2-A MSD
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dinitrophenol	11	U	80.0	80.2		ug/L		100	50 - 148	8	30
2,4-Dinitrotoluene	1.0	U	40.0	49.8		ug/L		125	71 - 142	6	30
2,6-Dinitrotoluene	0.83	U	40.0	47.7		ug/L		119	71 - 136	8	30
2-Chloronaphthalene	1.2	U	40.0	44.9		ug/L		112	50 - 129	9	30
2-Chlorophenol	0.95	U	40.0	37.3		ug/L		93	49 - 120	9	30
2-Methylnaphthalene	2.2	J	40.0	41.9		ug/L		99	42 - 134	7	30
2-Methylphenol	1.0	J	40.0	33.8		ug/L		82	35 - 120	17	30
2-Nitroaniline	1.2	U	40.0	46.2		ug/L		115	57 - 134	5	30
2-Nitrophenol	0.75	U	40.0	43.7		ug/L		109	62 - 124	9	30
3,3'-Dichlorobenzidine	1.4	U	40.0	24.7		ug/L		62	55 - 145	12	30
3-Nitroaniline	1.9	U	40.0	23.3		ug/L		58	51 - 120	14	30
4,6-Dinitro-2-methylphenol	8.6	U	80.0	95.2		ug/L		119	65 - 145	6	30
4-Bromophenyl phenyl ether	0.75	U	40.0	44.4		ug/L		111	59 - 132	10	30
4-Chloro-3-methylphenol	1.3	U	40.0	41.2		ug/L		103	54 - 120	7	30
4-Chloroaniline	1.9	U	40.0	18.9		ug/L		47	43 - 120	4	30
4-Chlorophenyl phenyl ether	1.3	U	40.0	45.3		ug/L		113	65 - 127	8	30
4-Methylphenol	0.83	J	40.0	30.5		ug/L		74	28 - 120	15	30
4-Nitroaniline	1.2	U	40.0	40.8		ug/L		102	57 - 135	9	30
4-Nitrophenol	4.0	U	80.0	41.0		ug/L		51	10 - 120	24	30
Acenaphthene	5.6	J	40.0	50.6		ug/L		112	62 - 127	11	30
Acenaphthylene	0.82	U F1	40.0	47.0		ug/L		117	58 - 122	10	30
Acetophenone	2.3	U	40.0	46.1		ug/L		115	65 - 125	6	30
Anthracene	2.8	J	40.0	48.0		ug/L		113	67 - 127	8	30
Atrazine	1.3	U *1 *+ F1	40.0	66.6	E F1	ug/L		167	13 - 150	0	30
Benzaldehyde	2.1	U *1 *+ F1	40.0	63.4	E F1	ug/L		158	10 - 150	9	30
Benzidine	2.8	U *1	40.0	5.17	J	ug/L		13	10 - 120	26	30
Benzo[a]anthracene	0.59	U	40.0	45.7		ug/L		114	71 - 131	9	30
Benzo[a]pyrene	0.41	U	40.0	52.2		ug/L		130	75 - 148	7	30
Benzo[b]fluoranthene	0.68	U	40.0	48.7		ug/L		122	70 - 140	8	30
Benzo[g,h,i]perylene	0.70	U	40.0	49.5		ug/L		124	52 - 143	10	30
Benzo[k]fluoranthene	0.67	U	40.0	47.3		ug/L		118	71 - 140	8	30
bis (2-chloroisopropyl) ether	0.63	U	40.0	44.4		ug/L		111	47 - 133	7	30
Bis(2-chloroethoxy)methane	0.59	U	40.0	45.4		ug/L		114	63 - 122	7	30
Bis(2-chloroethyl)ether	0.63	U	40.0	44.1		ug/L		110	61 - 125	7	30
Bis(2-ethylhexyl) phthalate	0.80	U	40.0	49.6		ug/L		124	65 - 144	8	30
Butyl benzyl phthalate	0.85	U	40.0	48.1		ug/L		120	67 - 141	10	30
Caprolactam	2.2	U	40.0	13.4		ug/L		34	10 - 120	5	30
Carbazole	7.2	J	40.0	53.5		ug/L		116	68 - 132	10	30
Chrysene	0.91	U	40.0	45.8		ug/L		114	70 - 132	9	30
Dibenz(a,h)anthracene	0.72	U	40.0	46.1		ug/L		115	53 - 150	11	30
Dibenzofuran	5.4	J	40.0	50.3		ug/L		112	64 - 125	9	30
Diethyl phthalate	0.98	U	40.0	44.9		ug/L		112	67 - 131	8	30
Dimethyl phthalate	0.77	U	40.0	46.2		ug/L		115	67 - 129	8	30
Di-n-butyl phthalate	0.84	U	40.0	46.1		ug/L		115	71 - 139	9	30
Di-n-octyl phthalate	4.0	U	40.0	49.1		ug/L		123	51 - 150	11	30
Fluoranthene	4.2	J F1	40.0	53.0		ug/L		122	69 - 137	11	30
Fluorene	8.5	J F1	40.0	55.0		ug/L		116	67 - 125	9	30
Hexachlorobenzene	0.40	U	40.0	44.8		ug/L		112	62 - 135	10	30
Hexachlorobutadiene	0.78	U	40.0	42.9		ug/L		107	10 - 147	9	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319158-S-2-A MSD
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorocyclopentadiene	3.6	U *+ F1	40.0	51.7		ug/L		129	10 - 135	9	30
Hexachloroethane	0.80	U	40.0	43.4		ug/L		108	10 - 138	8	30
Indeno[1,2,3-cd]pyrene	0.94	U	40.0	48.4		ug/L		121	59 - 150	10	30
Isophorone	0.80	U	40.0	47.5		ug/L		119	65 - 128	6	30
Naphthalene	21	F1	40.0	64.8		ug/L		109	39 - 126	16	30
Nitrobenzene	0.57	U	40.0	46.8		ug/L		117	66 - 127	7	30
N-Nitrosodimethylamine	0.45	U	40.0	21.3		ug/L		53	11 - 120	14	30
N-Nitrosodi-n-propylamine	0.43	U	40.0	46.9		ug/L		117	63 - 133	7	30
N-Nitrosodiphenylamine	0.89	U	40.0	46.0		ug/L		115	66 - 128	8	30
Pentachlorophenol	6.6	U	80.0	91.0		ug/L		114	60 - 140	7	30
Phenanthrene	18	F1	40.0	61.4		ug/L		109	68 - 126	14	30
Phenol	0.94	J	40.0	16.7		ug/L		40	10 - 80	19	30
Pyrene	2.8	J	40.0	48.0		ug/L		113	60 - 137	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*37 - 150*
2-Fluorobiphenyl	*99*		*46 - 139*
2-Fluorophenol (Surr)	*53*		*16 - 80*
Nitrobenzene-d5 (Surr)	*103*		*51 - 145*
Phenol-d5 (Surr)	*34*		*10 - 56*
Terphenyl-d14 (Surr)	*41*		*13 - 159*

Lab Sample ID: 460-319158-T-2-A MS
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	1.2	U	40.0	50.6		ug/L		126	52 - 129
1,2,4-Trichlorobenzene	0.64	U	40.0	46.3		ug/L		116	20 - 135
1,2-Dichlorobenzene	0.50	U	40.0	45.2		ug/L		113	18 - 128
1,2-Diphenylhydrazine	0.79	U	40.0	51.4		ug/L		128	58 - 130
1,3-Dichlorobenzene	2.0	U	40.0	44.6		ug/L		111	11 - 130
1,4-Dichlorobenzene	1.1	U	40.0	45.2		ug/L		113	14 - 129
2,4,5-Trichlorophenol	0.88	U	40.0	49.3		ug/L		123	63 - 124
2,4,6-Trichlorophenol	0.86	U	40.0	50.3		ug/L		126	66 - 131
2,4-Dichlorophenol	1.1	U	40.0	45.3		ug/L		113	60 - 120
2,4-Dimethylphenol	0.72	J F1	40.0	55.0	F1	ug/L		136	37 - 120
2,4-Dinitrophenol	11	U	80.0	86.5		ug/L		108	50 - 148
2,4-Dinitrotoluene	1.0	U	40.0	53.0		ug/L		133	71 - 142
2,6-Dinitrotoluene	0.83	U	40.0	51.6		ug/L		129	71 - 136
2-Chloronaphthalene	1.2	U	40.0	49.0		ug/L		123	50 - 129
2-Chlorophenol	0.95	U	40.0	40.7		ug/L		102	49 - 120
2-Methylnaphthalene	2.2	J	40.0	45.0		ug/L		107	42 - 134
2-Methylphenol	1.0	J	40.0	39.9		ug/L		97	35 - 120
2-Nitroaniline	1.2	U	40.0	48.7		ug/L		122	57 - 134
2-Nitrophenol	0.75	U	40.0	47.6		ug/L		119	62 - 124
3,3'-Dichlorobenzidine	1.4	U	40.0	28.0		ug/L		70	55 - 145
3-Nitroaniline	1.9	U	40.0	26.8		ug/L		67	51 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319158-T-2-A MS
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	8.6	U	80.0	101		ug/L		127	65 - 145
4-Bromophenyl phenyl ether	0.75	U	40.0	49.2		ug/L		123	59 - 132
4-Chloro-3-methylphenol	1.3	U	40.0	44.2		ug/L		111	54 - 120
4-Chloroaniline	1.9	U	40.0	19.7		ug/L		49	43 - 120
4-Chlorophenyl phenyl ether	1.3	U	40.0	49.2		ug/L		123	65 - 127
4-Methylphenol	0.83	J	40.0	35.5		ug/L		87	28 - 120
4-Nitroaniline	1.2	U	40.0	44.6		ug/L		111	57 - 135
4-Nitrophenol	4.0	U	80.0	52.1		ug/L		65	10 - 120
Acenaphthene	5.6	J	40.0	56.2		ug/L		126	62 - 127
Acenaphthylene	0.82	U F1	40.0	51.7	F1	ug/L		129	58 - 122
Acetophenone	2.3	U	40.0	49.1		ug/L		123	65 - 125
Anthracene	2.8	J	40.0	52.2		ug/L		124	67 - 127
Atrazine	1.3	U *1 *+ F1	40.0	66.7	E F1	ug/L		167	13 - 150
Benzaldehyde	2.1	U *1 *+ F1	40.0	57.9	E	ug/L		145	10 - 150
Benzidine	2.8	U *1	40.0	6.70	J	ug/L		17	10 - 120
Benzo[a]anthracene	0.59	U	40.0	49.9		ug/L		125	71 - 131
Benzo[a]pyrene	0.41	U	40.0	56.2		ug/L		141	75 - 148
Benzo[b]fluoranthene	0.68	U	40.0	52.9		ug/L		132	70 - 140
Benzo[g,h,i]perylene	0.70	U	40.0	54.8		ug/L		137	52 - 143
Benzo[k]fluoranthene	0.67	U	40.0	51.2		ug/L		128	71 - 140
bis (2-chloroisopropyl) ether	0.63	U	40.0	47.5		ug/L		119	47 - 133
Bis(2-chloroethoxy)methane	0.59	U	40.0	48.7		ug/L		122	63 - 122
Bis(2-chloroethyl)ether	0.63	U	40.0	47.4		ug/L		118	61 - 125
Bis(2-ethylhexyl) phthalate	0.80	U	40.0	53.6		ug/L		134	65 - 144
Butyl benzyl phthalate	0.85	U	40.0	53.0		ug/L		133	67 - 141
Caprolactam	2.2	U	40.0	14.2		ug/L		35	10 - 120
Carbazole	7.2	J	40.0	58.9		ug/L		129	68 - 132
Chrysene	0.91	U	40.0	50.1		ug/L		125	70 - 132
Dibenz(a,h)anthracene	0.72	U	40.0	51.5		ug/L		129	53 - 150
Dibenzofuran	5.4	J	40.0	54.8		ug/L		124	64 - 125
Diethyl phthalate	0.98	U	40.0	48.8		ug/L		122	67 - 131
Dimethyl phthalate	0.77	U	40.0	49.8		ug/L		125	67 - 129
Di-n-butyl phthalate	0.84	U	40.0	50.7		ug/L		127	71 - 139
Di-n-octyl phthalate	4.0	U	40.0	54.6		ug/L		136	51 - 150
Fluoranthene	4.2	J F1	40.0	59.4	F1	ug/L		138	69 - 137
Fluorene	8.5	J F1	40.0	60.3	F1	ug/L		130	67 - 125
Hexachlorobenzene	0.40	U	40.0	49.6		ug/L		124	62 - 135
Hexachlorobutadiene	0.78	U	40.0	47.1		ug/L		118	10 - 147
Hexachlorocyclopentadiene	3.6	U *+ F1	40.0	56.6	F1	ug/L		141	10 - 135
Hexachloroethane	0.80	U	40.0	46.9		ug/L		117	10 - 138
Indeno[1,2,3-cd]pyrene	0.94	U	40.0	53.3		ug/L		133	59 - 150
Isophorone	0.80	U	40.0	50.5		ug/L		126	65 - 128
Naphthalene	21	F1	40.0	75.9	F1	ug/L		137	39 - 126
Nitrobenzene	0.57	U	40.0	50.4		ug/L		126	66 - 127
N-Nitrosodimethylamine	0.45	U	40.0	24.5		ug/L		61	11 - 120
N-Nitrosodi-n-propylamine	0.43	U	40.0	50.1		ug/L		125	63 - 133
N-Nitrosodiphenylamine	0.89	U	40.0	49.9		ug/L		125	66 - 128
Pentachlorophenol	6.6	U	80.0	97.7		ug/L		122	60 - 140
Phenanthrene	18	F1	40.0	70.9	F1	ug/L		133	68 - 126

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319158-T-2-A MS
Matrix: Water
Analysis Batch: 1017857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017771

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	0.94	J	40.0	20.2		ug/L		48	10 - 80
Pyrene	2.8	J	40.0	53.0		ug/L		125	60 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*37 - 150*
2-Fluorobiphenyl	*106*		*46 - 139*
2-Fluorophenol (Surr)	*61*		*16 - 80*
Nitrobenzene-d5 (Surr)	*106*		*51 - 145*
Phenol-d5 (Surr)	*41*		*10 - 56*
Terphenyl-d14 (Surr)	*51*		*13 - 159*

Lab Sample ID: MB 460-1023975/1-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1023975/1-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.010	U	0.33	0.010	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Phenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		03/04/25 08:39	03/04/25 14:49	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*03/04/25 08:39*	*03/04/25 14:49*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*24 - 137*	*03/04/25 08:39*	*03/04/25 14:49*	*1*
2-Fluorobiphenyl	*86*		*38 - 128*	*03/04/25 08:39*	*03/04/25 14:49*	*1*
2-Fluorophenol (Surr)	*98*		*31 - 133*	*03/04/25 08:39*	*03/04/25 14:49*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1023975/1-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023975

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	92		31 - 120	03/04/25 08:39	03/04/25 14:49	1
Phenol-d5 (Surr)	79		35 - 132	03/04/25 08:39	03/04/25 14:49	1
Terphenyl-d14 (Surr)	86		44 - 147	03/04/25 08:39	03/04/25 14:49	1

Lab Sample ID: LCS 460-1023975/2-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.38		mg/Kg		101	64 - 120
1,2,4-Trichlorobenzene	3.33	3.31		mg/Kg		99	63 - 120
1,2-Dichlorobenzene	3.33	3.31		mg/Kg		99	64 - 120
1,2-Diphenylhydrazine	3.33	3.33		mg/Kg		100	55 - 125
1,3-Dichlorobenzene	3.33	3.08		mg/Kg		92	62 - 120
1,4-Dichlorobenzene	3.33	3.25		mg/Kg		98	60 - 120
2,4,5-Trichlorophenol	3.33	3.50		mg/Kg		105	64 - 120
2,4,6-Trichlorophenol	3.33	3.61		mg/Kg		108	65 - 120
2,4-Dichlorophenol	3.33	3.23		mg/Kg		97	66 - 120
2,4-Dimethylphenol	3.33	3.94		mg/Kg		118	46 - 120
2,4-Dinitrophenol	6.67	6.73		mg/Kg		101	41 - 129
2,4-Dinitrotoluene	3.33	3.47		mg/Kg		104	65 - 124
2,6-Dinitrotoluene	3.33	3.44		mg/Kg		103	67 - 121
2-Chloronaphthalene	3.33	3.30		mg/Kg		99	64 - 120
2-Chlorophenol	3.33	3.34		mg/Kg		100	63 - 120
2-Methylnaphthalene	3.33	2.89		mg/Kg		87	64 - 120
2-Methylphenol	3.33	3.50		mg/Kg		105	63 - 120
2-Nitroaniline	3.33	3.19		mg/Kg		96	48 - 120
2-Nitrophenol	3.33	3.27		mg/Kg		98	64 - 120
3,3'-Dichlorobenzidine	3.33	2.04		mg/Kg		61	10 - 120
3-Nitroaniline	3.33	2.34		mg/Kg		70	18 - 122
4,6-Dinitro-2-methylphenol	6.67	7.63		mg/Kg		114	58 - 136
4-Bromophenyl phenyl ether	3.33	3.51		mg/Kg		105	60 - 120
4-Chloro-3-methylphenol	3.33	3.32		mg/Kg		100	66 - 120
4-Chloroaniline	3.33	2.21		mg/Kg		66	10 - 120
4-Chlorophenyl phenyl ether	3.33	3.32		mg/Kg		100	62 - 120
4-Methylphenol	3.33	3.26		mg/Kg		98	61 - 120
4-Nitroaniline	3.33	3.35		mg/Kg		101	51 - 120
4-Nitrophenol	6.67	5.97		mg/Kg		89	42 - 132
Acenaphthene	3.33	3.32		mg/Kg		99	65 - 120
Acenaphthylene	3.33	3.53		mg/Kg		106	64 - 120
Acetophenone	3.33	3.19		mg/Kg		96	61 - 120
Anthracene	3.33	3.48		mg/Kg		104	67 - 120
Atrazine	1.33	1.72		mg/Kg		129	32 - 150
Benzaldehyde	1.33	1.58		mg/Kg		119	28 - 150
Benzidine	3.33	3.85		mg/Kg		116	10 - 120
Benzo[a]anthracene	3.33	3.38		mg/Kg		101	66 - 120
Benzo[a]pyrene	3.33	3.86		mg/Kg		116	73 - 123
Benzo[b]fluoranthene	3.33	3.59		mg/Kg		108	70 - 125

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1023975/2-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	3.33	3.93		mg/Kg		118	66 - 120
Benzo[k]fluoranthene	3.33	3.55		mg/Kg		107	67 - 122
bis (2-chloroisopropyl) ether	3.33	3.12		mg/Kg		94	46 - 126
Bis(2-chloroethoxy)methane	3.33	3.22		mg/Kg		97	62 - 120
Bis(2-chloroethyl)ether	3.33	3.20		mg/Kg		96	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.41		mg/Kg		102	64 - 125
Butyl benzyl phthalate	3.33	3.34		mg/Kg		100	62 - 127
Caprolactam	1.33	1.51		mg/Kg		113	36 - 150
Carbazole	3.33	3.45		mg/Kg		104	64 - 120
Chrysene	3.33	3.33		mg/Kg		100	67 - 120
Dibenz(a,h)anthracene	3.33	3.71		mg/Kg		111	66 - 128
Dibenzofuran	3.33	3.24		mg/Kg		97	61 - 120
Diethyl phthalate	3.33	3.38		mg/Kg		101	63 - 120
Dimethyl phthalate	3.33	3.35		mg/Kg		101	65 - 120
Di-n-butyl phthalate	3.33	3.27		mg/Kg		98	66 - 120
Di-n-octyl phthalate	3.33	3.31		mg/Kg		99	61 - 123
Fluoranthene	3.33	3.44		mg/Kg		103	61 - 120
Fluorene	3.33	3.37		mg/Kg		101	64 - 120
Hexachlorobenzene	3.33	3.61		mg/Kg		108	66 - 120
Hexachlorobutadiene	3.33	3.37		mg/Kg		101	62 - 120
Hexachlorocyclopentadiene	3.33	5.27	*+	mg/Kg		158	13 - 120
Hexachloroethane	3.33	3.39		mg/Kg		102	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.64		mg/Kg		109	71 - 137
Isophorone	3.33	3.28		mg/Kg		98	61 - 120
Naphthalene	3.33	3.28		mg/Kg		98	63 - 120
Nitrobenzene	3.33	3.14		mg/Kg		94	63 - 120
N-Nitrosodimethylamine	3.33	3.18		mg/Kg		95	57 - 120
N-Nitrosodi-n-propylamine	3.33	3.30		mg/Kg		99	56 - 120
N-Nitrosodiphenylamine	3.33	3.41		mg/Kg		102	63 - 120
Pentachlorophenol	6.67	7.30		mg/Kg		109	61 - 126
Phenanthrene	3.33	3.36		mg/Kg		101	66 - 120
Phenol	3.33	3.16		mg/Kg		95	63 - 120
Pyrene	3.33	3.40		mg/Kg		102	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*24 - 137*
2-Fluorobiphenyl	*95*		*38 - 128*
2-Fluorophenol (Surr)	*99*		*31 - 133*
Nitrobenzene-d5 (Surr)	*95*		*31 - 120*
Phenol-d5 (Surr)	*95*		*35 - 132*
Terphenyl-d14 (Surr)	*98*		*44 - 147*

Lab Sample ID: LCSD 460-1023975/3-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	3.33	3.37		mg/Kg		101	64 - 120	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1023975/3-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023975

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			3.33	3.34		mg/Kg		100	63 - 120	1	30
1,2-Dichlorobenzene			3.33	3.28		mg/Kg		98	64 - 120	1	30
1,2-Diphenylhydrazine			3.33	3.33		mg/Kg		100	55 - 125	0	30
1,3-Dichlorobenzene			3.33	3.21		mg/Kg		96	62 - 120	4	30
1,4-Dichlorobenzene			3.33	3.23		mg/Kg		97	60 - 120	1	30
2,4,5-Trichlorophenol			3.33	3.54		mg/Kg		106	64 - 120	1	30
2,4,6-Trichlorophenol			3.33	3.46		mg/Kg		104	65 - 120	4	30
2,4-Dichlorophenol			3.33	3.28		mg/Kg		98	66 - 120	1	30
2,4-Dimethylphenol			3.33	3.85		mg/Kg		115	46 - 120	2	30
2,4-Dinitrophenol			6.67	6.88		mg/Kg		103	41 - 129	2	30
2,4-Dinitrotoluene			3.33	3.50		mg/Kg		105	65 - 124	1	30
2,6-Dinitrotoluene			3.33	3.42		mg/Kg		103	67 - 121	0	30
2-Chloronaphthalene			3.33	3.31		mg/Kg		99	64 - 120	0	30
2-Chlorophenol			3.33	3.34		mg/Kg		100	63 - 120	0	30
2-Methylnaphthalene			3.33	2.92		mg/Kg		88	64 - 120	1	30
2-Methylphenol			3.33	3.55		mg/Kg		107	63 - 120	2	30
2-Nitroaniline			3.33	3.21		mg/Kg		96	48 - 120	1	30
2-Nitrophenol			3.33	3.36		mg/Kg		101	64 - 120	3	30
3,3'-Dichlorobenzidine			3.33	1.85		mg/Kg		56	10 - 120	10	30
3-Nitroaniline			3.33	2.20		mg/Kg		66	18 - 122	6	30
4,6-Dinitro-2-methylphenol			6.67	7.80		mg/Kg		117	58 - 136	2	30
4-Bromophenyl phenyl ether			3.33	3.56		mg/Kg		107	60 - 120	1	30
4-Chloro-3-methylphenol			3.33	3.42		mg/Kg		103	66 - 120	3	30
4-Chloroaniline			3.33	1.90		mg/Kg		57	10 - 120	15	30
4-Chlorophenyl phenyl ether			3.33	3.38		mg/Kg		101	62 - 120	2	30
4-Methylphenol			3.33	3.33		mg/Kg		100	61 - 120	2	30
4-Nitroaniline			3.33	3.30		mg/Kg		99	51 - 120	1	30
4-Nitrophenol			6.67	5.88		mg/Kg		88	42 - 132	1	30
Acenaphthene			3.33	3.34		mg/Kg		100	65 - 120	1	30
Acenaphthylene			3.33	3.52		mg/Kg		106	64 - 120	0	30
Acetophenone			3.33	3.22		mg/Kg		97	61 - 120	1	30
Anthracene			3.33	3.48		mg/Kg		104	67 - 120	0	30
Atrazine			1.33	2.07	*+	mg/Kg		155	32 - 150	19	30
Benzaldehyde			1.33	1.75		mg/Kg		131	28 - 150	10	30
Benzidine			3.33	3.61		mg/Kg		108	10 - 120	7	30
Benzo[a]anthracene			3.33	3.37		mg/Kg		101	66 - 120	0	30
Benzo[a]pyrene			3.33	3.67		mg/Kg		110	73 - 123	5	30
Benzo[b]fluoranthene			3.33	3.35		mg/Kg		101	70 - 125	7	30
Benzo[g,h,i]perylene			3.33	3.90		mg/Kg		117	66 - 120	1	30
Benzo[k]fluoranthene			3.33	3.66		mg/Kg		110	67 - 122	3	30
bis (2-chloroisopropyl) ether			3.33	3.13		mg/Kg		94	46 - 126	0	30
Bis(2-chloroethoxy)methane			3.33	3.24		mg/Kg		97	62 - 120	0	30
Bis(2-chloroethyl)ether			3.33	3.15		mg/Kg		95	60 - 120	2	30
Bis(2-ethylhexyl) phthalate			3.33	3.42		mg/Kg		102	64 - 125	0	30
Butyl benzyl phthalate			3.33	3.32		mg/Kg		99	62 - 127	1	30
Caprolactam			1.33	1.82		mg/Kg		136	36 - 150	19	30
Carbazole			3.33	3.56		mg/Kg		107	64 - 120	3	30
Chrysene			3.33	3.32		mg/Kg		100	67 - 120	0	30
Dibenz(a,h)anthracene			3.33	3.70		mg/Kg		111	66 - 128	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1023975/3-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023975

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibenzofuran			3.33	3.28		mg/Kg		98	61 - 120	1	30
Diethyl phthalate			3.33	3.38		mg/Kg		101	63 - 120	0	30
Dimethyl phthalate			3.33	3.40		mg/Kg		102	65 - 120	1	30
Di-n-butyl phthalate			3.33	3.30		mg/Kg		99	66 - 120	1	30
Di-n-octyl phthalate			3.33	3.28		mg/Kg		98	61 - 123	1	30
Fluoranthene			3.33	3.52		mg/Kg		106	61 - 120	2	30
Fluorene			3.33	3.37		mg/Kg		101	64 - 120	0	30
Hexachlorobenzene			3.33	3.64		mg/Kg		109	66 - 120	1	30
Hexachlorobutadiene			3.33	3.43		mg/Kg		103	62 - 120	2	30
Hexachlorocyclopentadiene			3.33	5.31	*+	mg/Kg		159	13 - 120	1	30
Hexachloroethane			3.33	3.41		mg/Kg		102	61 - 120	1	30
Indeno[1,2,3-cd]pyrene			3.33	3.67		mg/Kg		110	71 - 137	1	30
Isophorone			3.33	3.30		mg/Kg		99	61 - 120	1	30
Naphthalene			3.33	3.33		mg/Kg		100	63 - 120	1	30
Nitrobenzene			3.33	3.17		mg/Kg		95	63 - 120	1	30
N-Nitrosodimethylamine			3.33	3.10		mg/Kg		93	57 - 120	2	30
N-Nitrosodi-n-propylamine			3.33	3.26		mg/Kg		98	56 - 120	1	30
N-Nitrosodiphenylamine			3.33	3.46		mg/Kg		104	63 - 120	2	30
Pentachlorophenol			6.67	7.38		mg/Kg		111	61 - 126	1	30
Phenanthrene			3.33	3.41		mg/Kg		102	66 - 120	1	30
Phenol			3.33	3.15		mg/Kg		95	63 - 120	0	30
Pyrene			3.33	3.44		mg/Kg		103	61 - 121	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*24 - 137*
2-Fluorobiphenyl	*93*		*38 - 128*
2-Fluorophenol (Surr)	*102*		*31 - 133*
Nitrobenzene-d5 (Surr)	*92*		*31 - 120*
Phenol-d5 (Surr)	*93*		*35 - 132*
Terphenyl-d14 (Surr)	*97*		*44 - 147*

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.012	U H	3.40	2.92	H	mg/Kg	☼	86	64 - 120
1,2,4-Trichlorobenzene	0.0087	U H	3.40	2.91	H	mg/Kg	☼	86	63 - 120
1,2-Dichlorobenzene	0.0057	U H	3.40	2.73	H	mg/Kg	☼	80	64 - 120
1,2-Diphenylhydrazine	0.013	U H	3.40	2.86	H	mg/Kg	☼	84	55 - 125
1,3-Dichlorobenzene	0.010	U H	3.40	2.74	H	mg/Kg	☼	81	62 - 120
1,4-Dichlorobenzene	0.013	U H	3.40	2.67	H	mg/Kg	☼	79	60 - 120
2,4,5-Trichlorophenol	0.034	U H	3.40	2.74	H	mg/Kg	☼	80	64 - 120
2,4,6-Trichlorophenol	0.043	U H	3.40	3.23	H	mg/Kg	☼	95	65 - 120
2,4-Dichlorophenol	0.022	U H	3.40	3.08	H	mg/Kg	☼	90	66 - 120
2,4-Dimethylphenol	0.040	U H	3.40	3.46	H	mg/Kg	☼	102	46 - 120
2,4-Dinitrophenol	0.17	U H	6.80	5.31	H	mg/Kg	☼	78	41 - 129
2,4-Dinitrotoluene	0.036	U H	3.40	3.00	H	mg/Kg	☼	88	65 - 124

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	0.024	U H	3.40	3.00	H	mg/Kg	☼	88	67 - 121
2-Chloronaphthalene	0.016	U H	3.40	2.88	H	mg/Kg	☼	85	64 - 120
2-Chlorophenol	0.012	U H	3.40	2.79	H	mg/Kg	☼	82	63 - 120
2-Methylnaphthalene	0.0094	U H	3.40	2.55	H	mg/Kg	☼	75	64 - 120
2-Methylphenol	0.013	U H	3.40	3.00	H	mg/Kg	☼	88	63 - 120
2-Nitroaniline	0.026	U H	3.40	2.71	H	mg/Kg	☼	80	48 - 120
2-Nitrophenol	0.034	U H	3.40	2.83	H	mg/Kg	☼	83	64 - 120
3,3'-Dichlorobenzidine	0.051	U H F1 F2	3.40	0.297	H F1	mg/Kg	☼	9	10 - 120
3-Nitroaniline	0.080	U H	3.40	1.41	H	mg/Kg	☼	41	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U H	6.80	5.90	H	mg/Kg	☼	87	58 - 136
4-Bromophenyl phenyl ether	0.013	U H	3.40	3.05	H	mg/Kg	☼	90	60 - 120
4-Chloro-3-methylphenol	0.019	U H	3.40	2.91	H	mg/Kg	☼	85	66 - 120
4-Chloroaniline	0.060	U H	3.40	0.428	H	mg/Kg	☼	13	10 - 120
4-Chlorophenyl phenyl ether	0.012	U H	3.40	2.94	H	mg/Kg	☼	86	62 - 120
4-Methylphenol	0.021	U H	3.40	2.81	H	mg/Kg	☼	83	61 - 120
4-Nitroaniline	0.039	U H	3.40	2.25	H	mg/Kg	☼	66	51 - 120
4-Nitrophenol	0.055	U H	6.80	5.09	H	mg/Kg	☼	75	42 - 132
Acenaphthene	0.0096	U H	3.40	2.90	H	mg/Kg	☼	85	65 - 120
Acenaphthylene	0.0096	U H	3.40	3.03	H	mg/Kg	☼	89	64 - 120
Acetophenone	0.017	U H	3.40	2.77	H	mg/Kg	☼	82	61 - 120
Anthracene	0.010	U H	3.40	2.96	H	mg/Kg	☼	87	67 - 120
Atrazine	0.020	U H *+	1.36	1.50	H	mg/Kg	☼	110	32 - 150
Benzaldehyde	0.056	U H	1.36	1.27	H	mg/Kg	☼	94	28 - 150
Benzidine	0.071	U H F1	3.40	0.071	U H F1	mg/Kg	☼	0	10 - 120
Benzo[a]anthracene	0.025	U H	3.40	2.93	H	mg/Kg	☼	86	66 - 120
Benzo[a]pyrene	0.0090	U H	3.40	3.28	H	mg/Kg	☼	97	73 - 123
Benzo[b]fluoranthene	0.0087	U H	3.40	2.99	H	mg/Kg	☼	88	70 - 125
Benzo[g,h,i]perylene	0.0099	U H	3.40	3.55	H	mg/Kg	☼	104	66 - 120
Benzo[k]fluoranthene	0.0066	U H	3.40	3.24	H	mg/Kg	☼	95	67 - 122
bis (2-chloroisopropyl) ether	0.020	U H	3.40	2.57	H	mg/Kg	☼	75	46 - 126
Bis(2-chloroethoxy)methane	0.026	U H	3.40	2.86	H	mg/Kg	☼	84	62 - 120
Bis(2-chloroethyl)ether	0.012	U H	3.40	2.70	H	mg/Kg	☼	79	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U H	3.40	3.05	H	mg/Kg	☼	90	64 - 125
Butyl benzyl phthalate	0.016	U H	3.40	2.94	H	mg/Kg	☼	86	62 - 127
Caprolactam	0.052	U H	1.36	1.44	H	mg/Kg	☼	106	36 - 150
Carbazole	0.013	U H	3.40	2.96	H	mg/Kg	☼	87	64 - 120
Chrysene	0.014	U H	3.40	2.90	H	mg/Kg	☼	85	67 - 120
Dibenz(a,h)anthracene	0.015	U H	3.40	3.32	H	mg/Kg	☼	98	66 - 128
Dibenzofuran	0.011	U H	3.40	2.93	H	mg/Kg	☼	86	61 - 120
Diethyl phthalate	0.011	U H	3.40	2.97	H	mg/Kg	☼	87	63 - 120
Dimethyl phthalate	0.076	U H	3.40	2.98	H	mg/Kg	☼	87	65 - 120
Di-n-butyl phthalate	0.013	U H	3.40	2.91	H	mg/Kg	☼	85	66 - 120
Di-n-octyl phthalate	0.018	U H	3.40	2.97	H	mg/Kg	☼	87	61 - 123
Fluoranthene	0.012	U H	3.40	2.97	H	mg/Kg	☼	87	61 - 120
Fluorene	0.0098	U H	3.40	2.91	H	mg/Kg	☼	85	64 - 120
Hexachlorobenzene	0.016	U H	3.40	3.10	H	mg/Kg	☼	91	66 - 120
Hexachlorobutadiene	0.0072	U H	3.40	2.93	H	mg/Kg	☼	86	62 - 120
Hexachlorocyclopentadiene	0.030	U H *+	3.40	2.88	H	mg/Kg	☼	85	13 - 120
Hexachloroethane	0.012	U H	3.40	2.70	H	mg/Kg	☼	79	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	0.013	U H	3.40	3.30	H	mg/Kg	☼	97	71 - 137
Isophorone	0.097	U H	3.40	2.88	H	mg/Kg	☼	85	61 - 120
Naphthalene	0.0058	U H	3.40	2.84	H	mg/Kg	☼	83	63 - 120
Nitrobenzene	0.019	U H	3.40	2.64	H	mg/Kg	☼	78	63 - 120
N-Nitrosodimethylamine	0.031	U H	3.40	2.73	H	mg/Kg	☼	80	57 - 120
N-Nitrosodi-n-propylamine	0.024	U H	3.40	2.80	H	mg/Kg	☼	82	56 - 120
N-Nitrosodiphenylamine	0.028	U H	3.40	2.94	H	mg/Kg	☼	86	63 - 120
Pentachlorophenol	0.069	U H	6.80	6.61	H	mg/Kg	☼	97	61 - 126
Phenanthrene	0.014	U H	3.40	2.97	H	mg/Kg	☼	87	66 - 120
Phenol	0.012	U H	3.40	2.80	H	mg/Kg	☼	82	63 - 120
Pyrene	0.011	J H	3.40	3.03	H	mg/Kg	☼	89	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*24 - 137*
2-Fluorobiphenyl	*80*		*38 - 128*
2-Fluorophenol (Surr)	*75*		*31 - 133*
Nitrobenzene-d5 (Surr)	*81*		*31 - 120*
Phenol-d5 (Surr)	*73*		*35 - 132*
Terphenyl-d14 (Surr)	*84*		*44 - 147*

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U H	3.40	2.83	H	mg/Kg	☼	83	64 - 120	3	30
1,2,4-Trichlorobenzene	0.0087	U H	3.40	2.82	H	mg/Kg	☼	83	63 - 120	3	30
1,2-Dichlorobenzene	0.0057	U H	3.40	2.55	H	mg/Kg	☼	75	64 - 120	7	30
1,2-Diphenylhydrazine	0.013	U H	3.40	2.78	H	mg/Kg	☼	82	55 - 125	3	30
1,3-Dichlorobenzene	0.010	U H	3.40	2.54	H	mg/Kg	☼	75	62 - 120	8	30
1,4-Dichlorobenzene	0.013	U H	3.40	2.51	H	mg/Kg	☼	74	60 - 120	6	30
2,4,5-Trichlorophenol	0.034	U H	3.40	2.83	H	mg/Kg	☼	83	64 - 120	3	30
2,4,6-Trichlorophenol	0.043	U H	3.40	3.13	H	mg/Kg	☼	92	65 - 120	3	30
2,4-Dichlorophenol	0.022	U H	3.40	2.93	H	mg/Kg	☼	86	66 - 120	5	30
2,4-Dimethylphenol	0.040	U H	3.40	3.25	H	mg/Kg	☼	96	46 - 120	6	30
2,4-Dinitrophenol	0.17	U H	6.81	4.90	H	mg/Kg	☼	72	41 - 129	8	30
2,4-Dinitrotoluene	0.036	U H	3.40	2.86	H	mg/Kg	☼	84	65 - 124	5	30
2,6-Dinitrotoluene	0.024	U H	3.40	2.93	H	mg/Kg	☼	86	67 - 121	2	30
2-Chloronaphthalene	0.016	U H	3.40	2.84	H	mg/Kg	☼	83	64 - 120	1	30
2-Chlorophenol	0.012	U H	3.40	2.70	H	mg/Kg	☼	79	63 - 120	3	30
2-Methylnaphthalene	0.0094	U H	3.40	2.49	H	mg/Kg	☼	73	64 - 120	3	30
2-Methylphenol	0.013	U H	3.40	2.90	H	mg/Kg	☼	85	63 - 120	3	30
2-Nitroaniline	0.026	U H	3.40	2.69	H	mg/Kg	☼	79	48 - 120	1	30
2-Nitrophenol	0.034	U H	3.40	2.79	H	mg/Kg	☼	82	64 - 120	1	30
3,3'-Dichlorobenzidine	0.051	U H F1 F2	3.40	0.0516	J H F1 F2	mg/Kg	☼	2	10 - 120	141	30
3-Nitroaniline	0.080	U H	3.40	1.48	H	mg/Kg	☼	44	18 - 122	5	30
4,6-Dinitro-2-methylphenol	0.14	U H	6.81	5.55	H	mg/Kg	☼	82	58 - 136	6	30
4-Bromophenyl phenyl ether	0.013	U H	3.40	2.97	H	mg/Kg	☼	87	60 - 120	3	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Chloro-3-methylphenol	0.019	U H	3.40	2.91	H	mg/Kg	☼	85	66 - 120	0	30
4-Chloroaniline	0.060	U H	3.40	0.535	H	mg/Kg	☼	16	10 - 120	22	30
4-Chlorophenyl phenyl ether	0.012	U H	3.40	2.84	H	mg/Kg	☼	83	62 - 120	3	30
4-Methylphenol	0.021	U H	3.40	2.72	H	mg/Kg	☼	80	61 - 120	3	30
4-Nitroaniline	0.039	U H	3.40	1.79	H	mg/Kg	☼	53	51 - 120	23	30
4-Nitrophenol	0.055	U H	6.81	5.31	H	mg/Kg	☼	78	42 - 132	4	30
Acenaphthene	0.0096	U H	3.40	2.84	H	mg/Kg	☼	83	65 - 120	2	30
Acenaphthylene	0.0096	U H	3.40	2.94	H	mg/Kg	☼	87	64 - 120	3	30
Acetophenone	0.017	U H	3.40	2.62	H	mg/Kg	☼	77	61 - 120	6	30
Anthracene	0.010	U H	3.40	2.85	H	mg/Kg	☼	84	67 - 120	4	30
Atrazine	0.020	U H *+	1.36	1.51	H	mg/Kg	☼	111	32 - 150	1	30
Benzaldehyde	0.056	U H	1.36	1.28	H	mg/Kg	☼	94	28 - 150	1	30
Benzidine	0.071	U H F1	3.40	0.0755	J H F1	mg/Kg	☼	2	10 - 120	NC	30
Benzo[a]anthracene	0.025	U H	3.40	2.84	H	mg/Kg	☼	83	66 - 120	3	30
Benzo[a]pyrene	0.0090	U H	3.40	3.14	H	mg/Kg	☼	92	73 - 123	5	30
Benzo[b]fluoranthene	0.0087	U H	3.40	2.95	H	mg/Kg	☼	87	70 - 125	1	30
Benzo[g,h,i]perylene	0.0099	U H	3.40	3.34	H	mg/Kg	☼	98	66 - 120	6	30
Benzo[k]fluoranthene	0.0066	U H	3.40	2.99	H	mg/Kg	☼	88	67 - 122	8	30
bis (2-chloroisopropyl) ether	0.020	U H	3.40	2.45	H	mg/Kg	☼	72	46 - 126	5	30
Bis(2-chloroethoxy)methane	0.026	U H	3.40	2.82	H	mg/Kg	☼	83	62 - 120	1	30
Bis(2-chloroethyl)ether	0.012	U H	3.40	2.56	H	mg/Kg	☼	75	60 - 120	5	30
Bis(2-ethylhexyl) phthalate	0.018	U H	3.40	2.97	H	mg/Kg	☼	87	64 - 125	3	30
Butyl benzyl phthalate	0.016	U H	3.40	2.88	H	mg/Kg	☼	85	62 - 127	2	30
Caprolactam	0.052	U H	1.36	1.46	H	mg/Kg	☼	107	36 - 150	1	30
Carbazole	0.013	U H	3.40	2.85	H	mg/Kg	☼	84	64 - 120	4	30
Chrysene	0.014	U H	3.40	2.84	H	mg/Kg	☼	83	67 - 120	2	30
Dibenz(a,h)anthracene	0.015	U H	3.40	3.18	H	mg/Kg	☼	93	66 - 128	4	30
Dibenzofuran	0.011	U H	3.40	2.89	H	mg/Kg	☼	85	61 - 120	1	30
Diethyl phthalate	0.011	U H	3.40	2.89	H	mg/Kg	☼	85	63 - 120	3	30
Dimethyl phthalate	0.076	U H	3.40	2.88	H	mg/Kg	☼	85	65 - 120	3	30
Di-n-butyl phthalate	0.013	U H	3.40	2.77	H	mg/Kg	☼	82	66 - 120	5	30
Di-n-octyl phthalate	0.018	U H	3.40	2.79	H	mg/Kg	☼	82	61 - 123	6	30
Fluoranthene	0.012	U H	3.40	2.85	H	mg/Kg	☼	84	61 - 120	4	30
Fluorene	0.0098	U H	3.40	2.89	H	mg/Kg	☼	85	64 - 120	1	30
Hexachlorobenzene	0.016	U H	3.40	3.08	H	mg/Kg	☼	90	66 - 120	1	30
Hexachlorobutadiene	0.0072	U H	3.40	2.87	H	mg/Kg	☼	84	62 - 120	2	30
Hexachlorocyclopentadiene	0.030	U H *+	3.40	2.89	H	mg/Kg	☼	85	13 - 120	0	30
Hexachloroethane	0.012	U H	3.40	2.55	H	mg/Kg	☼	75	61 - 120	6	30
Indeno[1,2,3-cd]pyrene	0.013	U H	3.40	3.14	H	mg/Kg	☼	92	71 - 137	5	30
Isophorone	0.097	U H	3.40	2.78	H	mg/Kg	☼	82	61 - 120	3	30
Naphthalene	0.0058	U H	3.40	2.77	H	mg/Kg	☼	81	63 - 120	2	30
Nitrobenzene	0.019	U H	3.40	2.57	H	mg/Kg	☼	76	63 - 120	3	30
N-Nitrosodimethylamine	0.031	U H	3.40	2.01	H	mg/Kg	☼	59	57 - 120	30	30
N-Nitrosodi-n-propylamine	0.024	U H	3.40	2.69	H	mg/Kg	☼	79	56 - 120	4	30
N-Nitrosodiphenylamine	0.028	U H	3.40	2.83	H	mg/Kg	☼	83	63 - 120	4	30
Pentachlorophenol	0.069	U H	6.81	6.41	H	mg/Kg	☼	94	61 - 126	3	30
Phenanthrene	0.014	U H	3.40	2.86	H	mg/Kg	☼	84	66 - 120	4	30
Phenol	0.012	U H	3.40	2.68	H	mg/Kg	☼	79	63 - 120	4	30
Pyrene	0.011	J H	3.40	2.91	H	mg/Kg	☼	85	61 - 121	4	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*87*		*24 - 137*
2-Fluorobiphenyl	*79*		*38 - 128*
2-Fluorophenol (Surr)	*75*		*31 - 133*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*
Phenol-d5 (Surr)	*71*		*35 - 132*
Terphenyl-d14 (Surr)	*81*		*44 - 147*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-1017868/1-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 06:12	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/23/25 20:22	01/24/25 06:12	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 06:12	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/23/25 20:22	01/24/25 06:12	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 06:12	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/23/25 20:22	01/24/25 06:12	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/23/25 20:22	01/24/25 06:12	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 06:12	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/23/25 20:22	01/24/25 06:12	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1017868/1-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 06:12	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/23/25 20:22	01/24/25 06:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*34 - 120*	*01/23/25 20:22*	*01/24/25 06:12*	*1*
Tetrachloro-m-xylene	*75*		*34 - 120*	*01/23/25 20:22*	*01/24/25 06:12*	*1*
DCB Decachlorobiphenyl	*58*		*30 - 131*	*01/23/25 20:22*	*01/24/25 06:12*	*1*
DCB Decachlorobiphenyl	*55*		*30 - 131*	*01/23/25 20:22*	*01/24/25 06:12*	*1*

Lab Sample ID: LCS 460-1017868/2-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.800	0.688		ug/L		86	67 - 129
Aldrin	0.800	0.645		ug/L		81	67 - 129
alpha-BHC	0.800	0.643		ug/L		80	70 - 125
alpha-BHC	0.800	0.632		ug/L		79	70 - 125
beta-BHC	0.800	0.648		ug/L		81	70 - 129
beta-BHC	0.800	0.617		ug/L		77	70 - 129
4,4'-DDD	0.800	0.635		ug/L		79	69 - 138
4,4'-DDD	0.800	0.649		ug/L		81	69 - 138
4,4'-DDE	0.800	0.705		ug/L		88	68 - 130
4,4'-DDE	0.800	0.667		ug/L		83	68 - 130
4,4'-DDT	0.800	0.785		ug/L		98	57 - 1505
4,4'-DDT	0.800	0.676		ug/L		85	57 - 1505
delta-BHC	0.800	0.451		ug/L		56	44 - 120
delta-BHC	0.800	0.448		ug/L		56	44 - 120
Dieldrin	0.800	0.708		ug/L		88	72 - 128
Dieldrin	0.800	0.657		ug/L		82	72 - 128
Endosulfan I	0.800	0.701		ug/L		88	73 - 127
Endosulfan I	0.800	0.663		ug/L		83	73 - 127
Endosulfan II	0.800	0.686		ug/L		86	73 - 134
Endosulfan II	0.800	0.686		ug/L		86	73 - 134
Endosulfan sulfate	0.800	0.603		ug/L		75	61 - 128
Endosulfan sulfate	0.800	0.558		ug/L		70	61 - 128
Endrin	0.800	0.719		ug/L		90	64 - 138
Endrin	0.800	0.654		ug/L		82	64 - 138
Endrin aldehyde	0.800	0.658		ug/L		82	74 - 133
Endrin aldehyde	0.800	0.634		ug/L		79	74 - 133
Endrin ketone	0.800	0.677		ug/L		85	56 - 150
Endrin ketone	0.800	0.636		ug/L		79	56 - 150
gamma-BHC (Lindane)	0.800	0.676		ug/L		85	73 - 132
gamma-BHC (Lindane)	0.800	0.649		ug/L		81	73 - 132
Heptachlor	0.800	0.702		ug/L		88	70 - 134
Heptachlor	0.800	0.660		ug/L		82	70 - 134
Heptachlor epoxide	0.800	0.696		ug/L		87	75 - 126
Heptachlor epoxide	0.800	0.641		ug/L		80	75 - 126

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1017868/2-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methoxychlor			0.800	0.870		ug/L		109	49 - 150		
Methoxychlor			0.800	0.697		ug/L		87	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*34 - 120*
Tetrachloro-m-xylene	*82*		*34 - 120*
DCB Decachlorobiphenyl	*53*		*30 - 131*
DCB Decachlorobiphenyl	*55*		*30 - 131*

Lab Sample ID: LCSD 460-1017868/3-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.800	0.692		ug/L		86	67 - 129	1	30
Aldrin			0.800	0.664		ug/L		83	67 - 129	3	30
alpha-BHC			0.800	0.670		ug/L		84	70 - 125	4	30
alpha-BHC			0.800	0.644		ug/L		80	70 - 125	2	30
beta-BHC			0.800	0.672		ug/L		84	70 - 129	4	30
beta-BHC			0.800	0.635		ug/L		79	70 - 129	3	30
4,4'-DDD			0.800	0.616		ug/L		77	69 - 138	3	30
4,4'-DDD			0.800	0.668		ug/L		83	69 - 138	3	30
4,4'-DDE			0.800	0.708		ug/L		89	68 - 130	0	30
4,4'-DDE			0.800	0.695		ug/L		87	68 - 130	4	30
4,4'-DDT			0.800	0.684		ug/L		86	57 - 1505	14	30
4,4'-DDT			0.800	0.664		ug/L		83	57 - 1505	2	30
delta-BHC			0.800	0.458		ug/L		57	44 - 120	2	30
delta-BHC			0.800	0.461		ug/L		58	44 - 120	3	30
Dieldrin			0.800	0.707		ug/L		88	72 - 128	0	30
Dieldrin			0.800	0.681		ug/L		85	72 - 128	4	30
Endosulfan I			0.800	0.704		ug/L		88	73 - 127	0	30
Endosulfan I			0.800	0.705		ug/L		88	73 - 127	6	30
Endosulfan II			0.800	0.698		ug/L		87	73 - 134	2	30
Endosulfan II			0.800	0.716		ug/L		89	73 - 134	4	30
Endosulfan sulfate			0.800	0.597		ug/L		75	61 - 128	1	30
Endosulfan sulfate			0.800	0.574		ug/L		72	61 - 128	3	30
Endrin			0.800	0.674		ug/L		84	64 - 138	6	30
Endrin			0.800	0.656		ug/L		82	64 - 138	0	30
Endrin aldehyde			0.800	0.668		ug/L		83	74 - 133	2	30
Endrin aldehyde			0.800	0.661		ug/L		83	74 - 133	4	30
Endrin ketone			0.800	0.688		ug/L		86	56 - 150	2	30
Endrin ketone			0.800	0.661		ug/L		83	56 - 150	4	30
gamma-BHC (Lindane)			0.800	0.695		ug/L		87	73 - 132	3	30
gamma-BHC (Lindane)			0.800	0.661		ug/L		83	73 - 132	2	30
Heptachlor			0.800	0.693		ug/L		87	70 - 134	1	30
Heptachlor			0.800	0.664		ug/L		83	70 - 134	1	30
Heptachlor epoxide			0.800	0.700		ug/L		87	75 - 126	0	30
Heptachlor epoxide			0.800	0.665		ug/L		83	75 - 126	4	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1017868/3-A
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor			0.800	0.697		ug/L		87	49 - 150	22	30
Methoxychlor			0.800	0.664		ug/L		83	49 - 150	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*34 - 120*
Tetrachloro-m-xylene	*82*		*34 - 120*
DCB Decachlorobiphenyl	*55*		*30 - 131*
DCB Decachlorobiphenyl	*55*		*30 - 131*

Lab Sample ID: 460-319158-K-2-A MS
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.0030	U	0.800	0.803		ug/L		100	67 - 129
Aldrin	0.0030	U	0.800	0.775		ug/L		97	67 - 129
alpha-BHC	0.0070	U	0.800	0.815		ug/L		102	70 - 125
alpha-BHC	0.0070	U	0.800	0.782		ug/L		98	70 - 125
beta-BHC	0.015	U	0.800	0.777		ug/L		97	70 - 129
beta-BHC	0.015	U	0.800	0.709		ug/L		89	70 - 129
4,4'-DDD	0.0060	U	0.800	0.805		ug/L		101	69 - 138
4,4'-DDD	0.0060	U	0.800	0.835		ug/L		104	69 - 138
4,4'-DDE	0.0020	U	0.800	0.871		ug/L		109	68 - 130
4,4'-DDE	0.0020	U	0.800	0.838		ug/L		105	68 - 130
4,4'-DDT	0.0040	U	0.800	0.926		ug/L		116	57 - 150
4,4'-DDT	0.0040	U	0.800	0.848		ug/L		106	57 - 150
delta-BHC	0.0050	U	0.800	0.729		ug/L		91	44 - 120
delta-BHC	0.0050	U	0.800	0.702		ug/L		88	44 - 120
Dieldrin	0.0030	U	0.800	0.877		ug/L		110	72 - 128
Dieldrin	0.0030	U	0.800	0.826		ug/L		103	72 - 128
Endosulfan I	0.0020	U	0.800	0.864		ug/L		108	73 - 127
Endosulfan I	0.0020	U	0.800	0.843		ug/L		105	73 - 127
Endosulfan II	0.0040	U	0.800	0.845		ug/L		106	73 - 134
Endosulfan II	0.0040	U	0.800	0.863		ug/L		108	73 - 134
Endosulfan sulfate	0.0060	U	0.800	0.767		ug/L		96	61 - 128
Endosulfan sulfate	0.0060	U	0.800	0.716		ug/L		90	61 - 128
Endrin	0.0040	U	0.800	0.866		ug/L		108	64 - 138
Endrin	0.0040	U	0.800	0.815		ug/L		102	64 - 138
Endrin aldehyde	0.0080	U	0.800	0.595		ug/L		74	74 - 133
Endrin aldehyde	0.0080	U	0.800	0.622		ug/L		78	74 - 133
Endrin ketone	0.0080	U	0.800	0.831		ug/L		104	56 - 150
Endrin ketone	0.0080	U	0.800	0.793		ug/L		99	56 - 150
gamma-BHC (Lindane)	0.012	U	0.800	0.851		ug/L		106	73 - 132
gamma-BHC (Lindane)	0.012	U	0.800	0.793		ug/L		99	73 - 132
Heptachlor	0.0030	U	0.800	0.781		ug/L		98	70 - 134
Heptachlor	0.0030	U	0.800	0.787		ug/L		98	70 - 134
Heptachlor epoxide	0.0050	U	0.800	0.858		ug/L		107	75 - 126
Heptachlor epoxide	0.0050	U	0.800	0.798		ug/L		100	75 - 126

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319158-K-2-A MS
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methoxychlor	0.0040	U	0.800	0.983		ug/L		123	49 - 150
Methoxychlor	0.0040	U	0.800	0.865		ug/L		108	49 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*34 - 120*
Tetrachloro-m-xylene	*79*		*34 - 120*
DCB Decachlorobiphenyl	*71*		*30 - 131*
DCB Decachlorobiphenyl	*69*		*30 - 131*

Lab Sample ID: 460-319158-K-2-B MSD
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.0030	U	0.800	0.828		ug/L		104	67 - 129	3	30
Aldrin	0.0030	U	0.800	0.778		ug/L		97	67 - 129	0	30
alpha-BHC	0.0070	U	0.800	0.829		ug/L		104	70 - 125	2	30
alpha-BHC	0.0070	U	0.800	0.778		ug/L		97	70 - 125	1	30
beta-BHC	0.015	U	0.800	0.773		ug/L		97	70 - 129	1	30
beta-BHC	0.015	U	0.800	0.708		ug/L		89	70 - 129	0	30
4,4'-DDD	0.0060	U	0.800	0.829		ug/L		104	69 - 138	3	30
4,4'-DDD	0.0060	U	0.800	0.852		ug/L		106	69 - 138	2	30
4,4'-DDE	0.0020	U	0.800	0.907		ug/L		113	68 - 130	4	30
4,4'-DDE	0.0020	U	0.800	0.850		ug/L		106	68 - 130	1	30
4,4'-DDT	0.0040	U	0.800	0.967		ug/L		121	57 - 150	4	30
4,4'-DDT	0.0040	U	0.800	0.862		ug/L		108	57 - 150	2	30
delta-BHC	0.0050	U	0.800	0.754		ug/L		94	44 - 120	4	30
delta-BHC	0.0050	U	0.800	0.718		ug/L		90	44 - 120	2	30
Dieldrin	0.0030	U	0.800	0.911		ug/L		114	72 - 128	4	30
Dieldrin	0.0030	U	0.800	0.842		ug/L		105	72 - 128	2	30
Endosulfan I	0.0020	U	0.800	0.884		ug/L		110	73 - 127	2	30
Endosulfan I	0.0020	U	0.800	0.856		ug/L		107	73 - 127	2	30
Endosulfan II	0.0040	U	0.800	0.867		ug/L		108	73 - 134	3	30
Endosulfan II	0.0040	U	0.800	0.874		ug/L		109	73 - 134	1	30
Endosulfan sulfate	0.0060	U	0.800	0.809		ug/L		101	61 - 128	5	30
Endosulfan sulfate	0.0060	U	0.800	0.738		ug/L		92	61 - 128	3	30
Endrin	0.0040	U	0.800	0.914		ug/L		114	64 - 138	5	30
Endrin	0.0040	U	0.800	0.828		ug/L		104	64 - 138	2	30
Endrin aldehyde	0.0080	U	0.800	0.613		ug/L		77	74 - 133	3	30
Endrin aldehyde	0.0080	U	0.800	0.622		ug/L		78	74 - 133	0	30
Endrin ketone	0.0080	U	0.800	0.849		ug/L		106	56 - 150	2	30
Endrin ketone	0.0080	U	0.800	0.813		ug/L		102	56 - 150	2	30
gamma-BHC (Lindane)	0.012	U	0.800	0.859		ug/L		107	73 - 132	1	30
gamma-BHC (Lindane)	0.012	U	0.800	0.793		ug/L		99	73 - 132	0	30
Heptachlor	0.0030	U	0.800	0.785		ug/L		98	70 - 134	1	30
Heptachlor	0.0030	U	0.800	0.789		ug/L		99	70 - 134	0	30
Heptachlor epoxide	0.0050	U	0.800	0.888		ug/L		111	75 - 126	3	30
Heptachlor epoxide	0.0050	U	0.800	0.808		ug/L		101	75 - 126	1	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319158-K-2-B MSD
Matrix: Water
Analysis Batch: 1017886

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor	0.0040	U	0.800	1.02		ug/L		127	49 - 150	3	30
Methoxychlor	0.0040	U	0.800	0.884		ug/L		110	49 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*34 - 120*
Tetrachloro-m-xylene	*78*		*34 - 120*
DCB Decachlorobiphenyl	*72*		*30 - 131*
DCB Decachlorobiphenyl	*71*		*30 - 131*

Lab Sample ID: MB 460-1018101/1-A
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:28	01/27/25 04:42	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1018101/1-A
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/25/25 18:28	01/27/25 04:42	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/25/25 18:28	01/27/25 04:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*21 - 150*	*01/25/25 18:28*	*01/27/25 04:42*	*1*
Tetrachloro-m-xylene	*101*		*21 - 150*	*01/25/25 18:28*	*01/27/25 04:42*	*1*
DCB Decachlorobiphenyl	*101*		*17 - 150*	*01/25/25 18:28*	*01/27/25 04:42*	*1*
DCB Decachlorobiphenyl	*104*		*17 - 150*	*01/25/25 18:28*	*01/27/25 04:42*	*1*

Lab Sample ID: LCS 460-1018101/2-A
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.133	0.117		mg/Kg		88	69 - 136
Aldrin	0.133	0.119		mg/Kg		89	69 - 136
alpha-BHC	0.133	0.120		mg/Kg		90	72 - 134
alpha-BHC	0.133	0.123		mg/Kg		92	72 - 134
beta-BHC	0.133	0.116		mg/Kg		87	71 - 130
beta-BHC	0.133	0.116		mg/Kg		87	71 - 130
4,4'-DDD	0.133	0.118		mg/Kg		88	70 - 138
4,4'-DDD	0.133	0.123		mg/Kg		92	70 - 138
4,4'-DDE	0.133	0.124		mg/Kg		93	68 - 136
4,4'-DDE	0.133	0.123		mg/Kg		92	68 - 136
4,4'-DDT	0.133	0.121		mg/Kg		91	66 - 149
4,4'-DDT	0.133	0.130		mg/Kg		98	66 - 149
delta-BHC	0.133	0.119		mg/Kg		89	69 - 140
delta-BHC	0.133	0.121		mg/Kg		91	69 - 140
Dieldrin	0.133	0.121		mg/Kg		91	69 - 134
Dieldrin	0.133	0.124		mg/Kg		93	69 - 134
Endosulfan I	0.133	0.123		mg/Kg		93	69 - 133
Endosulfan I	0.133	0.125		mg/Kg		94	69 - 133
Endosulfan II	0.133	0.124		mg/Kg		93	71 - 137
Endosulfan II	0.133	0.131		mg/Kg		98	71 - 137
Endosulfan sulfate	0.133	0.113		mg/Kg		85	61 - 140
Endosulfan sulfate	0.133	0.119		mg/Kg		89	61 - 140
Endrin	0.133	0.120		mg/Kg		90	67 - 141
Endrin	0.133	0.128		mg/Kg		96	67 - 141
Endrin aldehyde	0.133	0.113		mg/Kg		85	71 - 136
Endrin aldehyde	0.133	0.117		mg/Kg		88	71 - 136
Endrin ketone	0.133	0.112		mg/Kg		84	60 - 146
Endrin ketone	0.133	0.117		mg/Kg		88	60 - 146
gamma-BHC (Lindane)	0.133	0.120		mg/Kg		90	72 - 139
gamma-BHC (Lindane)	0.133	0.122		mg/Kg		92	72 - 139

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1018101/2-A
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018101

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Heptachlor			0.133	0.122		mg/Kg		91	74 - 138		
Heptachlor			0.133	0.126		mg/Kg		94	74 - 138		
Heptachlor epoxide			0.133	0.121		mg/Kg		91	72 - 134		
Heptachlor epoxide			0.133	0.124		mg/Kg		93	72 - 134		
Methoxychlor			0.133	0.119		mg/Kg		89	60 - 150		
Methoxychlor			0.133	0.132		mg/Kg		99	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*21 - 150*
Tetrachloro-m-xylene	*74*		*21 - 150*
DCB Decachlorobiphenyl	*70*		*17 - 150*
DCB Decachlorobiphenyl	*75*		*17 - 150*

Lab Sample ID: LCSD 460-1018101/3-A
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018101

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.133	0.125		mg/Kg		94	69 - 136	7	30
Aldrin			0.133	0.130		mg/Kg		98	69 - 136	9	30
alpha-BHC			0.133	0.130		mg/Kg		98	72 - 134	8	30
alpha-BHC			0.133	0.135		mg/Kg		101	72 - 134	9	30
beta-BHC			0.133	0.125		mg/Kg		94	71 - 130	7	30
beta-BHC			0.133	0.126		mg/Kg		95	71 - 130	8	30
4,4'-DDD			0.133	0.123		mg/Kg		92	70 - 138	4	30
4,4'-DDD			0.133	0.132		mg/Kg		99	70 - 138	7	30
4,4'-DDE			0.133	0.130		mg/Kg		97	68 - 136	4	30
4,4'-DDE			0.133	0.133		mg/Kg		100	68 - 136	8	30
4,4'-DDT			0.133	0.127		mg/Kg		96	66 - 149	5	30
4,4'-DDT			0.133	0.139		mg/Kg		104	66 - 149	7	30
delta-BHC			0.133	0.127		mg/Kg		95	69 - 140	7	30
delta-BHC			0.133	0.131		mg/Kg		99	69 - 140	8	30
Dieldrin			0.133	0.127		mg/Kg		95	69 - 134	4	30
Dieldrin			0.133	0.133		mg/Kg		100	69 - 134	7	30
Endosulfan I			0.133	0.129		mg/Kg		97	69 - 133	5	30
Endosulfan I			0.133	0.134		mg/Kg		101	69 - 133	7	30
Endosulfan II			0.133	0.130		mg/Kg		97	71 - 137	4	30
Endosulfan II			0.133	0.140		mg/Kg		105	71 - 137	7	30
Endosulfan sulfate			0.133	0.119		mg/Kg		89	61 - 140	5	30
Endosulfan sulfate			0.133	0.125		mg/Kg		94	61 - 140	5	30
Endrin			0.133	0.126		mg/Kg		94	67 - 141	5	30
Endrin			0.133	0.137		mg/Kg		103	67 - 141	7	30
Endrin aldehyde			0.133	0.118		mg/Kg		88	71 - 136	4	30
Endrin aldehyde			0.133	0.122		mg/Kg		92	71 - 136	5	30
Endrin ketone			0.133	0.118		mg/Kg		89	60 - 146	5	30
Endrin ketone			0.133	0.123		mg/Kg		92	60 - 146	4	30
gamma-BHC (Lindane)			0.133	0.130		mg/Kg		97	72 - 139	8	30
gamma-BHC (Lindane)			0.133	0.133		mg/Kg		100	72 - 139	9	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1018101/3-A
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018101

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Heptachlor			0.133	0.131		mg/Kg		98	74 - 138	7	30
Heptachlor			0.133	0.138		mg/Kg		103	74 - 138	9	30
Heptachlor epoxide			0.133	0.127		mg/Kg		95	72 - 134	5	30
Heptachlor epoxide			0.133	0.134		mg/Kg		101	72 - 134	8	30
Methoxychlor			0.133	0.125		mg/Kg		94	60 - 150	5	30
Methoxychlor			0.133	0.139		mg/Kg		104	60 - 150	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*21 - 150*
Tetrachloro-m-xylene	*80*		*21 - 150*
DCB Decachlorobiphenyl	*75*		*17 - 150*
DCB Decachlorobiphenyl	*79*		*17 - 150*

Lab Sample ID: 460-319121-E-4-R MS
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.0012	U F1	0.161	0.236	F1	mg/Kg	☼	146	69 - 136
Aldrin	0.0012	U F1	0.161	0.243	F1	mg/Kg	☼	151	69 - 136
alpha-BHC	0.00082	U F1	0.161	0.245	F1	mg/Kg	☼	152	72 - 134
alpha-BHC	0.00082	U F1	0.161	0.259	F1	mg/Kg	☼	160	72 - 134
beta-BHC	0.00091	U F1	0.161	0.238	F1	mg/Kg	☼	148	71 - 130
beta-BHC	0.00091	U F1	0.161	0.244	F1	mg/Kg	☼	151	71 - 130
4,4'-DDD	0.0014	U F1	0.161	0.240	F1	mg/Kg	☼	149	70 - 138
4,4'-DDD	0.0014	U F1	0.161	0.246	F1	mg/Kg	☼	153	70 - 138
4,4'-DDE	0.00096	U F1	0.161	0.251	F1	mg/Kg	☼	155	68 - 136
4,4'-DDE	0.00096	U F1	0.161	0.259	F1	mg/Kg	☼	161	68 - 136
4,4'-DDT	0.0015	U F1	0.161	0.253	F1	mg/Kg	☼	157	66 - 149
4,4'-DDT	0.0015	U F1	0.161	0.268	F1	mg/Kg	☼	166	66 - 149
delta-BHC	0.00050	U F1	0.161	0.249	F1	mg/Kg	☼	155	69 - 140
delta-BHC	0.00050	U F1	0.161	0.256	F1	mg/Kg	☼	159	69 - 140
Dieldrin	0.0011	U F1	0.161	0.244	F1	mg/Kg	☼	152	69 - 134
Dieldrin	0.0011	U F1	0.161	0.257	F1	mg/Kg	☼	159	69 - 134
Endosulfan I	0.0012	U F1	0.161	0.248	F1	mg/Kg	☼	154	69 - 133
Endosulfan I	0.0012	U F1	0.161	0.255	F1	mg/Kg	☼	158	69 - 133
Endosulfan II	0.0021	U F1	0.161	0.249	F1	mg/Kg	☼	155	71 - 137
Endosulfan II	0.0021	U F1	0.161	0.266	F1	mg/Kg	☼	165	71 - 137
Endosulfan sulfate	0.0010	U F1	0.161	0.226		mg/Kg	☼	140	61 - 140
Endosulfan sulfate	0.0010	U F1	0.161	0.234	F1	mg/Kg	☼	145	61 - 140
Endrin	0.0012	U F1	0.161	0.247	F1	mg/Kg	☼	153	67 - 141
Endrin	0.0012	U F1	0.161	0.263	F1	mg/Kg	☼	163	67 - 141
Endrin aldehyde	0.0019	U	0.161	0.202		mg/Kg	☼	125	71 - 136
Endrin aldehyde	0.0019	U	0.161	0.211		mg/Kg	☼	131	71 - 136
Endrin ketone	0.0016	U	0.161	0.227		mg/Kg	☼	141	60 - 146
Endrin ketone	0.0016	U	0.161	0.233		mg/Kg	☼	144	60 - 146
gamma-BHC (Lindane)	0.00075	U F1	0.161	0.245	F1	mg/Kg	☼	152	72 - 139
gamma-BHC (Lindane)	0.00075	U F1	0.161	0.256	F1	mg/Kg	☼	159	72 - 139

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319121-E-4-R MS
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	0.00096	U F1	0.161	0.247	F1	mg/Kg	☼	153	74 - 138
Heptachlor	0.00096	U F1	0.161	0.260	F1	mg/Kg	☼	161	74 - 138
Heptachlor epoxide	0.0012	U F1	0.161	0.247	F1	mg/Kg	☼	153	72 - 134
Heptachlor epoxide	0.0012	U F1	0.161	0.256	F1	mg/Kg	☼	159	72 - 134
Methoxychlor	0.0019	U F1	0.161	0.245	F1	mg/Kg	☼	152	60 - 150
Methoxychlor	0.0019	U F1	0.161	0.256	F1	mg/Kg	☼	159	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*21 - 150*
Tetrachloro-m-xylene	*87*		*21 - 150*
DCB Decachlorobiphenyl	*87*		*17 - 150*
DCB Decachlorobiphenyl	*95*		*17 - 150*

Lab Sample ID: 460-319121-E-4-S MSD
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.0012	U F1	0.161	0.240	F1	mg/Kg	☼	149	69 - 136	2	30
Aldrin	0.0012	U F1	0.161	0.244	F1	mg/Kg	☼	151	69 - 136	0	30
alpha-BHC	0.00082	U F1	0.161	0.249	F1	mg/Kg	☼	154	72 - 134	2	30
alpha-BHC	0.00082	U F1	0.161	0.257	F1	mg/Kg	☼	159	72 - 134	1	30
beta-BHC	0.00091	U F1	0.161	0.244	F1	mg/Kg	☼	151	71 - 130	3	30
beta-BHC	0.00091	U F1	0.161	0.245	F1	mg/Kg	☼	152	71 - 130	1	30
4,4'-DDD	0.0014	U F1	0.161	0.246	F1	mg/Kg	☼	152	70 - 138	3	30
4,4'-DDD	0.0014	U F1	0.161	0.249	F1	mg/Kg	☼	154	70 - 138	1	30
4,4'-DDE	0.00096	U F1	0.161	0.262	F1	mg/Kg	☼	162	68 - 136	4	30
4,4'-DDE	0.00096	U F1	0.161	0.256	F1	mg/Kg	☼	159	68 - 136	1	30
4,4'-DDT	0.0015	U F1	0.161	0.261	F1	mg/Kg	☼	162	66 - 149	3	30
4,4'-DDT	0.0015	U F1	0.161	0.267	F1	mg/Kg	☼	166	66 - 149	1	30
delta-BHC	0.00050	U F1	0.161	0.252	F1	mg/Kg	☼	156	69 - 140	1	30
delta-BHC	0.00050	U F1	0.161	0.255	F1	mg/Kg	☼	158	69 - 140	0	30
Dieldrin	0.0011	U F1	0.161	0.255	F1	mg/Kg	☼	158	69 - 134	4	30
Dieldrin	0.0011	U F1	0.161	0.255	F1	mg/Kg	☼	158	69 - 134	1	30
Endosulfan I	0.0012	U F1	0.161	0.258	F1	mg/Kg	☼	160	69 - 133	4	30
Endosulfan I	0.0012	U F1	0.161	0.254	F1	mg/Kg	☼	157	69 - 133	1	30
Endosulfan II	0.0021	U F1	0.161	0.255	F1	mg/Kg	☼	158	71 - 137	2	30
Endosulfan II	0.0021	U F1	0.161	0.266	F1	mg/Kg	☼	165	71 - 137	0	30
Endosulfan sulfate	0.0010	U F1	0.161	0.235	F1	mg/Kg	☼	146	61 - 140	4	30
Endosulfan sulfate	0.0010	U F1	0.161	0.234	F1	mg/Kg	☼	145	61 - 140	0	30
Endrin	0.0012	U F1	0.161	0.254	F1	mg/Kg	☼	158	67 - 141	3	30
Endrin	0.0012	U F1	0.161	0.260	F1	mg/Kg	☼	161	67 - 141	1	30
Endrin aldehyde	0.0019	U	0.161	0.206		mg/Kg	☼	128	71 - 136	2	30
Endrin aldehyde	0.0019	U	0.161	0.211		mg/Kg	☼	131	71 - 136	0	30
Endrin ketone	0.0016	U	0.161	0.238	F1	mg/Kg	☼	148	60 - 146	5	30
Endrin ketone	0.0016	U	0.161	0.233		mg/Kg	☼	144	60 - 146	0	30
gamma-BHC (Lindane)	0.00075	U F1	0.161	0.250	F1	mg/Kg	☼	155	72 - 139	2	30
gamma-BHC (Lindane)	0.00075	U F1	0.161	0.257	F1	mg/Kg	☼	160	72 - 139	0	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319121-E-4-S MSD
Matrix: Solid
Analysis Batch: 1018172

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Heptachlor	0.00096	U F1	0.161	0.251	F1	mg/Kg	☼	155	74 - 138	2	30
Heptachlor	0.00096	U F1	0.161	0.261	F1	mg/Kg	☼	162	74 - 138	0	30
Heptachlor epoxide	0.0012	U F1	0.161	0.255	F1	mg/Kg	☼	158	72 - 134	3	30
Heptachlor epoxide	0.0012	U F1	0.161	0.255	F1	mg/Kg	☼	158	72 - 134	0	30
Methoxychlor	0.0019	U F1	0.161	0.255	F1	mg/Kg	☼	158	60 - 150	4	30
Methoxychlor	0.0019	U F1	0.161	0.257	F1	mg/Kg	☼	159	60 - 150	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*21 - 150*
Tetrachloro-m-xylene	*81*		*21 - 150*
DCB Decachlorobiphenyl	*93*		*17 - 150*
DCB Decachlorobiphenyl	*96*		*17 - 150*

Lab Sample ID: MB 460-1024180/1-A
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/05/25 10:29	03/05/25 20:42	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1024180/1-A
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		03/05/25 10:29	03/05/25 20:42	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		03/05/25 10:29	03/05/25 20:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*21 - 150*	*03/05/25 10:29*	*03/05/25 20:42*	*1*
Tetrachloro-m-xylene	*43*		*21 - 150*	*03/05/25 10:29*	*03/05/25 20:42*	*1*
DCB Decachlorobiphenyl	*58*		*17 - 150*	*03/05/25 10:29*	*03/05/25 20:42*	*1*
DCB Decachlorobiphenyl	*56*		*17 - 150*	*03/05/25 10:29*	*03/05/25 20:42*	*1*

Lab Sample ID: LCS 460-1024180/2-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.133	0.121		mg/Kg		90	69 - 136
Aldrin	0.133	0.132		mg/Kg		99	69 - 136
alpha-BHC	0.133	0.132		mg/Kg		99	72 - 134
alpha-BHC	0.133	0.145		mg/Kg		109	72 - 134
beta-BHC	0.133	0.121		mg/Kg		90	71 - 130
beta-BHC	0.133	0.134		mg/Kg		100	71 - 130
4,4'-DDD	0.133	0.124		mg/Kg		93	70 - 138
4,4'-DDD	0.133	0.130		mg/Kg		98	70 - 138
4,4'-DDE	0.133	0.122		mg/Kg		91	68 - 136
4,4'-DDE	0.133	0.133		mg/Kg		100	68 - 136
4,4'-DDT	0.133	0.148		mg/Kg		111	66 - 149
4,4'-DDT	0.133	0.147		mg/Kg		110	66 - 149
delta-BHC	0.133	0.139		mg/Kg		104	69 - 140
delta-BHC	0.133	0.149		mg/Kg		112	69 - 140
Dieldrin	0.133	0.118		mg/Kg		89	69 - 134
Dieldrin	0.133	0.130		mg/Kg		97	69 - 134
Endosulfan I	0.133	0.122		mg/Kg		92	69 - 133
Endosulfan I	0.133	0.131		mg/Kg		98	69 - 133
Endosulfan II	0.133	0.124		mg/Kg		93	71 - 137
Endosulfan II	0.133	0.136		mg/Kg		102	71 - 137
Endosulfan sulfate	0.133	0.130		mg/Kg		98	61 - 140
Endosulfan sulfate	0.133	0.133		mg/Kg		100	61 - 140
Endrin	0.133	0.126		mg/Kg		95	67 - 141
Endrin	0.133	0.145		mg/Kg		109	67 - 141
Endrin aldehyde	0.133	0.118		mg/Kg		89	71 - 136
Endrin aldehyde	0.133	0.121		mg/Kg		91	71 - 136

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1024180/2-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024180

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin ketone			0.133	0.132		mg/Kg		99	60 - 146		
Endrin ketone			0.133	0.138		mg/Kg		103	60 - 146		
gamma-BHC (Lindane)			0.133	0.135		mg/Kg		101	72 - 139		
gamma-BHC (Lindane)			0.133	0.143		mg/Kg		107	72 - 139		
Heptachlor			0.133	0.138		mg/Kg		103	74 - 138		
Heptachlor			0.133	0.146		mg/Kg		109	74 - 138		
Heptachlor epoxide			0.133	0.121		mg/Kg		91	72 - 134		
Heptachlor epoxide			0.133	0.132		mg/Kg		99	72 - 134		
Methoxychlor			0.133	0.167		mg/Kg		126	60 - 150		
Methoxychlor			0.133	0.144		mg/Kg		108	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*21 - 150*
Tetrachloro-m-xylene	*89*		*21 - 150*
DCB Decachlorobiphenyl	*56*		*17 - 150*
DCB Decachlorobiphenyl	*55*		*17 - 150*

Lab Sample ID: LCSD 460-1024180/3-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.133	0.127		mg/Kg		95	69 - 136	5	30
Aldrin			0.133	0.155		mg/Kg		117	69 - 136	16	30
alpha-BHC			0.133	0.138		mg/Kg		103	72 - 134	4	30
alpha-BHC			0.133	0.169		mg/Kg		127	72 - 134	15	30
beta-BHC			0.133	0.126		mg/Kg		94	71 - 130	4	30
beta-BHC			0.133	0.155		mg/Kg		116	71 - 130	15	30
4,4'-DDD			0.133	0.132		mg/Kg		99	70 - 138	6	30
4,4'-DDD			0.133	0.154		mg/Kg		115	70 - 138	16	30
4,4'-DDE			0.133	0.129		mg/Kg		97	68 - 136	6	30
4,4'-DDE			0.133	0.158		mg/Kg		119	68 - 136	17	30
4,4'-DDT			0.133	0.156		mg/Kg		117	66 - 149	5	30
4,4'-DDT			0.133	0.169		mg/Kg		127	66 - 149	14	30
delta-BHC			0.133	0.136		mg/Kg		102	69 - 140	2	30
delta-BHC			0.133	0.172		mg/Kg		129	69 - 140	14	30
Dieldrin			0.133	0.125		mg/Kg		94	69 - 134	6	30
Dieldrin			0.133	0.153		mg/Kg		115	69 - 134	16	30
Endosulfan I			0.133	0.126		mg/Kg		95	69 - 133	3	30
Endosulfan I			0.133	0.155		mg/Kg		117	69 - 133	17	30
Endosulfan II			0.133	0.131		mg/Kg		99	71 - 137	6	30
Endosulfan II			0.133	0.160		mg/Kg		120	71 - 137	16	30
Endosulfan sulfate			0.133	0.138		mg/Kg		104	61 - 140	6	30
Endosulfan sulfate			0.133	0.155		mg/Kg		116	61 - 140	15	30
Endrin			0.133	0.132		mg/Kg		99	67 - 141	5	30
Endrin			0.133	0.170		mg/Kg		128	67 - 141	16	30
Endrin aldehyde			0.133	0.126		mg/Kg		95	71 - 136	6	30
Endrin aldehyde			0.133	0.142		mg/Kg		106	71 - 136	16	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1024180/3-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin ketone			0.133	0.136		mg/Kg		102	60 - 146	3	30
Endrin ketone			0.133	0.161		mg/Kg		121	60 - 146	16	30
gamma-BHC (Lindane)			0.133	0.141		mg/Kg		106	72 - 139	4	30
gamma-BHC (Lindane)			0.133	0.166		mg/Kg		124	72 - 139	15	30
Heptachlor			0.133	0.145		mg/Kg		108	74 - 138	5	30
Heptachlor			0.133	0.170		mg/Kg		127	74 - 138	15	30
Heptachlor epoxide			0.133	0.128		mg/Kg		96	72 - 134	6	30
Heptachlor epoxide			0.133	0.155		mg/Kg		117	72 - 134	16	30
Methoxychlor			0.133	0.178		mg/Kg		134	60 - 150	6	30
Methoxychlor			0.133	0.168		mg/Kg		126	60 - 150	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*21 - 150*
Tetrachloro-m-xylene	*101*		*21 - 150*
DCB Decachlorobiphenyl	*61*		*17 - 150*
DCB Decachlorobiphenyl	*67*		*17 - 150*

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0012	U H	0.136	0.117	H	mg/Kg	☼	86	70 - 138
4,4'-DDD	0.0012	U H	0.136	0.118	H	mg/Kg	☼	87	70 - 138
4,4'-DDE	0.00081	U H	0.136	0.113	H	mg/Kg	☼	83	68 - 136
4,4'-DDE	0.00081	U H	0.136	0.121	H	mg/Kg	☼	89	68 - 136
4,4'-DDT	0.0013	U H	0.136	0.140	H	mg/Kg	☼	103	66 - 149
4,4'-DDT	0.0013	U H	0.136	0.129	H	mg/Kg	☼	95	66 - 149
Aldrin	0.0010	U H	0.136	0.112	H	mg/Kg	☼	82	69 - 136
Aldrin	0.0010	U H	0.136	0.115	H	mg/Kg	☼	85	69 - 136
alpha-BHC	0.00069	U H	0.136	0.117	H	mg/Kg	☼	86	72 - 134
alpha-BHC	0.00069	U H	0.136	0.122	H	mg/Kg	☼	90	72 - 134
beta-BHC	0.00076	U H	0.136	0.111	H	mg/Kg	☼	81	71 - 130
beta-BHC	0.00076	U H	0.136	0.116	H	mg/Kg	☼	85	71 - 130
delta-BHC	0.00042	U H	0.136	0.113	H	mg/Kg	☼	83	69 - 140
delta-BHC	0.00042	U H	0.136	0.113	H	mg/Kg	☼	83	69 - 140
Dieldrin	0.00089	U H	0.136	0.113	H	mg/Kg	☼	83	69 - 134
Dieldrin	0.00089	U H	0.136	0.118	H	mg/Kg	☼	87	69 - 134
Endosulfan I	0.0010	U H	0.136	0.116	H	mg/Kg	☼	85	69 - 133
Endosulfan I	0.0010	U H	0.136	0.120	H	mg/Kg	☼	88	69 - 133
Endosulfan II	0.0018	U H	0.136	0.119	H	mg/Kg	☼	87	71 - 137
Endosulfan II	0.0018	U H	0.136	0.120	H	mg/Kg	☼	88	71 - 137
Endosulfan sulfate	0.00086	U H	0.136	0.120	H	mg/Kg	☼	88	61 - 140
Endosulfan sulfate	0.00086	U H	0.136	0.113	H	mg/Kg	☼	83	61 - 140
Endrin	0.00098	U H	0.136	0.118	H	mg/Kg	☼	87	67 - 141
Endrin	0.00098	U H	0.136	0.133	H	mg/Kg	☼	97	67 - 141
Endrin aldehyde	0.0016	U H	0.136	0.101	H	mg/Kg	☼	74	71 - 136
Endrin aldehyde	0.0016	U H	0.136	0.0997	H	mg/Kg	☼	73	71 - 136

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin ketone	0.0013	U H	0.136	0.128	H	mg/Kg	☼	94	60 - 146
Endrin ketone	0.0013	U H	0.136	0.122	H	mg/Kg	☼	90	60 - 146
gamma-BHC (Lindane)	0.00063	U H	0.136	0.115	H	mg/Kg	☼	84	72 - 139
gamma-BHC (Lindane)	0.00063	U H	0.136	0.119	H	mg/Kg	☼	88	72 - 139
Heptachlor	0.00081	U H	0.136	0.124	H	mg/Kg	☼	91	74 - 138
Heptachlor	0.00081	U H	0.136	0.125	H	mg/Kg	☼	92	74 - 138
Heptachlor epoxide	0.0010	U H	0.136	0.112	H	mg/Kg	☼	82	72 - 134
Heptachlor epoxide	0.0010	U H	0.136	0.119	H	mg/Kg	☼	87	72 - 134
Methoxychlor	0.0016	U H	0.136	0.159	H	mg/Kg	☼	117	60 - 150
Methoxychlor	0.0016	U H	0.136	0.128	H	mg/Kg	☼	94	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*17 - 150*
DCB Decachlorobiphenyl	*55*		*17 - 150*
Tetrachloro-m-xylene	*71*		*21 - 150*
Tetrachloro-m-xylene	*71*		*21 - 150*

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0012	U H	0.136	0.114	H	mg/Kg	☼	84	70 - 138	3	30
4,4'-DDD	0.0012	U H	0.136	0.117	H	mg/Kg	☼	86	70 - 138	1	30
4,4'-DDE	0.00081	U H	0.136	0.111	H	mg/Kg	☼	82	68 - 136	2	30
4,4'-DDE	0.00081	U H	0.136	0.122	H	mg/Kg	☼	90	68 - 136	1	30
4,4'-DDT	0.0013	U H	0.136	0.137	H	mg/Kg	☼	100	66 - 149	3	30
4,4'-DDT	0.0013	U H	0.136	0.131	H	mg/Kg	☼	96	66 - 149	1	30
Aldrin	0.0010	U H	0.136	0.110	H	mg/Kg	☼	81	69 - 136	2	30
Aldrin	0.0010	U H	0.136	0.117	H	mg/Kg	☼	86	69 - 136	2	30
alpha-BHC	0.00069	U H	0.136	0.116	H	mg/Kg	☼	85	72 - 134	1	30
alpha-BHC	0.00069	U H	0.136	0.123	H	mg/Kg	☼	91	72 - 134	1	30
beta-BHC	0.00076	U H	0.136	0.109	H	mg/Kg	☼	80	71 - 130	1	30
beta-BHC	0.00076	U H	0.136	0.119	H	mg/Kg	☼	87	71 - 130	2	30
delta-BHC	0.00042	U H	0.136	0.112	H	mg/Kg	☼	82	69 - 140	2	30
delta-BHC	0.00042	U H	0.136	0.116	H	mg/Kg	☼	85	69 - 140	2	30
Dieldrin	0.00089	U H	0.136	0.109	H	mg/Kg	☼	80	69 - 134	4	30
Dieldrin	0.00089	U H	0.136	0.118	H	mg/Kg	☼	87	69 - 134	0	30
Endosulfan I	0.0010	U H	0.136	0.113	H	mg/Kg	☼	83	69 - 133	2	30
Endosulfan I	0.0010	U H	0.136	0.122	H	mg/Kg	☼	89	69 - 133	2	30
Endosulfan II	0.0018	U H	0.136	0.115	H	mg/Kg	☼	85	71 - 137	3	30
Endosulfan II	0.0018	U H	0.136	0.113	H	mg/Kg	☼	83	71 - 137	6	30
Endosulfan sulfate	0.00086	U H	0.136	0.118	H	mg/Kg	☼	86	61 - 140	2	30
Endosulfan sulfate	0.00086	U H	0.136	0.116	H	mg/Kg	☼	85	61 - 140	3	30
Endrin	0.00098	U H	0.136	0.114	H	mg/Kg	☼	84	67 - 141	3	30
Endrin	0.00098	U H	0.136	0.135	H	mg/Kg	☼	99	67 - 141	2	30
Endrin aldehyde	0.0016	U H	0.136	0.0982	H	mg/Kg	☼	72	71 - 136	3	30
Endrin aldehyde	0.0016	U H	0.136	0.0995	H	mg/Kg	☼	73	71 - 136	0	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024271

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin ketone	0.0013	U H	0.136	0.125	H	mg/Kg	☼	92	60 - 146	3	30
Endrin ketone	0.0013	U H	0.136	0.126	H	mg/Kg	☼	93	60 - 146	3	30
gamma-BHC (Lindane)	0.00063	U H	0.136	0.113	H	mg/Kg	☼	83	72 - 139	1	30
gamma-BHC (Lindane)	0.00063	U H	0.136	0.123	H	mg/Kg	☼	90	72 - 139	3	30
Heptachlor	0.00081	U H	0.136	0.122	H	mg/Kg	☼	89	74 - 138	2	30
Heptachlor	0.00081	U H	0.136	0.125	H	mg/Kg	☼	92	74 - 138	0	30
Heptachlor epoxide	0.0010	U H	0.136	0.110	H	mg/Kg	☼	81	72 - 134	2	30
Heptachlor epoxide	0.0010	U H	0.136	0.121	H	mg/Kg	☼	89	72 - 134	2	30
Methoxychlor	0.0016	U H	0.136	0.159	H	mg/Kg	☼	117	60 - 150	0	30
Methoxychlor	0.0016	U H	0.136	0.131	H	mg/Kg	☼	96	60 - 150	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*		*17 - 150*
DCB Decachlorobiphenyl	*51*		*17 - 150*
Tetrachloro-m-xylene	*74*		*21 - 150*
Tetrachloro-m-xylene	*71*		*21 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-1017866/1-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/23/25 20:09	01/24/25 06:26	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/23/25 20:09	01/24/25 06:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*18 - 145*	*01/23/25 20:09*	*01/24/25 06:26*	*1*
DCB Decachlorobiphenyl	*64*		*18 - 145*	*01/23/25 20:09*	*01/24/25 06:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1017866/1-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017866

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		21 - 124	01/23/25 20:09	01/24/25 06:26	1
Tetrachloro-m-xylene	78		21 - 124	01/23/25 20:09	01/24/25 06:26	1

Lab Sample ID: LCS 460-1017866/2-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017866

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			4.00	3.18		ug/L		80	42 - 120		
Aroclor 1016			4.00	3.46		ug/L		86	42 - 120		
Aroclor 1260			4.00	3.17		ug/L		79	42 - 126		
Aroclor 1260			4.00	3.83		ug/L		96	42 - 126		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	63		18 - 145
DCB Decachlorobiphenyl	72		18 - 145
Tetrachloro-m-xylene	78		21 - 124
Tetrachloro-m-xylene	87		21 - 124

Lab Sample ID: LCSD 460-1017866/3-A
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017866

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.36		ug/L		84	42 - 120	5	30
Aroclor 1016			4.00	3.12		ug/L		78	42 - 120	10	30
Aroclor 1260			4.00	3.34		ug/L		83	42 - 126	5	30
Aroclor 1260			4.00	3.65		ug/L		91	42 - 126	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	63		18 - 145
DCB Decachlorobiphenyl	66		18 - 145
Tetrachloro-m-xylene	81		21 - 124
Tetrachloro-m-xylene	80		21 - 124

Lab Sample ID: 460-319158-H-2-A MS
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.12	U	4.00	3.54		ug/L		88	42 - 120		
Aroclor 1016	0.12	U	4.00	3.57		ug/L		89	42 - 120		
Aroclor 1260	0.11	U	4.00	3.60		ug/L		90	42 - 126		
Aroclor 1260	0.11	U	4.00	3.80		ug/L		95	42 - 126		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	78		18 - 145

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319158-H-2-A MS
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017866

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	70		18 - 145
Tetrachloro-m-xylene	79		21 - 124
Tetrachloro-m-xylene	81		21 - 124

Lab Sample ID: 460-319158-H-2-B MSD
Matrix: Water
Analysis Batch: 1017892

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.12	U	4.00	3.56		ug/L		89	42 - 120	1	30
Aroclor 1016	0.12	U	4.00	3.64		ug/L		91	42 - 120	2	30
Aroclor 1260	0.11	U	4.00	3.72		ug/L		93	42 - 126	3	30
Aroclor 1260	0.11	U	4.00	4.02		ug/L		101	42 - 126	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	72		18 - 145
DCB Decachlorobiphenyl	70		18 - 145
Tetrachloro-m-xylene	79		21 - 124
Tetrachloro-m-xylene	81		21 - 124

Lab Sample ID: MB 460-1018100/1-A
Matrix: Solid
Analysis Batch: 1018121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:25	01/26/25 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		20 - 150	01/25/25 18:25	01/26/25 10:41	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1018100/1-A
Matrix: Solid
Analysis Batch: 1018121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018100

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		20 - 150	01/25/25 18:25	01/26/25 10:41	1
Tetrachloro-m-xylene	79		20 - 150	01/25/25 18:25	01/26/25 10:41	1
Tetrachloro-m-xylene	78		20 - 150	01/25/25 18:25	01/26/25 10:41	1

Lab Sample ID: LCS 460-1018100/2-A
Matrix: Solid
Analysis Batch: 1018121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018100

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.344		mg/Kg		103	54 - 136		
Aroclor 1016			0.333	0.318		mg/Kg		95	54 - 136		
Aroclor 1260			0.333	0.360		mg/Kg		108	53 - 145		
Aroclor 1260			0.333	0.357		mg/Kg		107	53 - 145		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	85		20 - 150
DCB Decachlorobiphenyl	85		20 - 150
Tetrachloro-m-xylene	88		20 - 150
Tetrachloro-m-xylene	87		20 - 150

Lab Sample ID: LCSD 460-1018100/3-A
Matrix: Solid
Analysis Batch: 1018121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.343		mg/Kg		103	54 - 136	0	30
Aroclor 1016			0.333	0.314		mg/Kg		94	54 - 136	1	30
Aroclor 1260			0.333	0.361		mg/Kg		108	53 - 145	0	30
Aroclor 1260			0.333	0.368		mg/Kg		111	53 - 145	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	87		20 - 150
DCB Decachlorobiphenyl	88		20 - 150
Tetrachloro-m-xylene	87		20 - 150
Tetrachloro-m-xylene	86		20 - 150

Lab Sample ID: 460-319121-E-4-O MS
Matrix: Solid
Analysis Batch: 1018121

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.022	U	0.403	0.547		mg/Kg	☼	136	54 - 136		
Aroclor 1016	0.022	U	0.403	0.435		mg/Kg	☼	108	54 - 136		
Aroclor 1260	0.022	U	0.403	0.575		mg/Kg	☼	143	53 - 145		
Aroclor 1260	0.022	U	0.403	0.490		mg/Kg	☼	122	53 - 145		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319121-E-4-O MS
Matrix: Solid
Analysis Batch: 1018121

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018100

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*20 - 150*
DCB Decachlorobiphenyl	*86*		*20 - 150*
Tetrachloro-m-xylene	*81*		*20 - 150*
Tetrachloro-m-xylene	*66*		*20 - 150*

Lab Sample ID: 460-319121-E-4-P MSD
Matrix: Solid
Analysis Batch: 1018121

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.022	U	0.403	0.521		mg/Kg	☼	129	54 - 136	5	30
Aroclor 1016	0.022	U	0.403	0.451		mg/Kg	☼	112	54 - 136	4	30
Aroclor 1260	0.022	U	0.403	0.561		mg/Kg	☼	139	53 - 145	3	30
Aroclor 1260	0.022	U	0.403	0.507		mg/Kg	☼	126	53 - 145	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*100*		*20 - 150*
DCB Decachlorobiphenyl	*90*		*20 - 150*
Tetrachloro-m-xylene	*77*		*20 - 150*
Tetrachloro-m-xylene	*69*		*20 - 150*

Lab Sample ID: MB 460-1024184/1-A
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		03/05/25 10:34	03/05/25 20:17	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1024184/1-A
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024184

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	52		20 - 150	03/05/25 10:34	03/05/25 20:17	1
DCB Decachlorobiphenyl	54		20 - 150	03/05/25 10:34	03/05/25 20:17	1
Tetrachloro-m-xylene	36		20 - 150	03/05/25 10:34	03/05/25 20:17	1
Tetrachloro-m-xylene	37		20 - 150	03/05/25 10:34	03/05/25 20:17	1

Lab Sample ID: LCS 460-1024184/2-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024184

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.353		mg/Kg		106	54 - 136		
Aroclor 1016			0.333	0.335		mg/Kg		100	54 - 136		
Aroclor 1260			0.333	0.337		mg/Kg		101	53 - 145		
Aroclor 1260			0.333	0.350		mg/Kg		105	53 - 145		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		20 - 150
DCB Decachlorobiphenyl	73		20 - 150
Tetrachloro-m-xylene	102		20 - 150
Tetrachloro-m-xylene	101		20 - 150

Lab Sample ID: LCSD 460-1024184/3-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024184

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.342		mg/Kg		103	54 - 136	3	30
Aroclor 1016			0.333	0.317		mg/Kg		95	54 - 136	5	30
Aroclor 1260			0.333	0.340		mg/Kg		102	53 - 145	1	30
Aroclor 1260			0.333	0.331		mg/Kg		99	53 - 145	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	70		20 - 150
DCB Decachlorobiphenyl	68		20 - 150
Tetrachloro-m-xylene	95		20 - 150
Tetrachloro-m-xylene	92		20 - 150

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024184

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.018	U	0.340	0.247		mg/Kg	☼	73	54 - 136		
Aroclor 1016	0.018	U	0.340	0.231		mg/Kg	☼	68	54 - 136		
Aroclor 1260	0.018	U	0.340	0.234		mg/Kg	☼	69	53 - 145		
Aroclor 1260	0.018	U	0.340	0.243		mg/Kg	☼	71	53 - 145		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024184

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	51		20 - 150
DCB Decachlorobiphenyl	52		20 - 150
Tetrachloro-m-xylene	67		20 - 150
Tetrachloro-m-xylene	67		20 - 150

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024260

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024184

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.018	U	0.340	0.259		mg/Kg	☼	76	54 - 136	5	30
Aroclor 1016	0.018	U	0.340	0.243		mg/Kg	☼	71	54 - 136	5	30
Aroclor 1260	0.018	U	0.340	0.215		mg/Kg	☼	63	53 - 145	9	30
Aroclor 1260	0.018	U	0.340	0.254		mg/Kg	☼	75	53 - 145	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	53		20 - 150
DCB Decachlorobiphenyl	53		20 - 150
Tetrachloro-m-xylene	72		20 - 150
Tetrachloro-m-xylene	72		20 - 150

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Lab Sample ID: MB 460-1017775/1-A
Matrix: Water
Analysis Batch: 1017751

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH (C9-C40)	0.40	U	0.40	0.40	mg/L		01/23/25 10:08	01/23/25 18:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		40 - 140	01/23/25 10:08	01/23/25 18:58	1
1-Chlorooctadecane	81		40 - 140	01/23/25 10:08	01/23/25 18:58	1

Lab Sample ID: LCS 460-1017775/2-A
Matrix: Water
Analysis Batch: 1017751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017775

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total EPH (C9-C40)			4.00	3.18		mg/L		79	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	87		40 - 140
1-Chlorooctadecane	102		40 - 140

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCSD 460-1017775/3-A
Matrix: Water
Analysis Batch: 1017751

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017775

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total EPH (C9-C40)			4.00	3.33		mg/L		83	40 - 140	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*88*		*40 - 140*
1-Chlorooctadecane	*44*		*40 - 140*

Lab Sample ID: MB 460-1017967/1-A
Matrix: Solid
Analysis Batch: 1018056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		01/24/25 09:53	01/25/25 07:17	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		01/24/25 09:53	01/25/25 07:17	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		01/24/25 09:53	01/25/25 07:17	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		01/24/25 09:53	01/25/25 07:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*40 - 140*	*01/24/25 09:53*	*01/25/25 07:17*	*1*
2-Fluorobiphenyl	*92*		*40 - 140*	*01/24/25 09:53*	*01/25/25 07:17*	*1*
2-Bromonaphthalene	*85*		*40 - 140*	*01/24/25 09:53*	*01/25/25 07:17*	*1*

Lab Sample ID: MB 460-1017967/1-A
Matrix: Solid
Analysis Batch: 1018055

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/24/25 09:53	01/25/25 07:48	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		01/24/25 09:53	01/25/25 07:48	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/24/25 09:53	01/25/25 07:48	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		01/24/25 09:53	01/25/25 07:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*61*		*40 - 140*	*01/24/25 09:53*	*01/25/25 07:48*	*1*

Lab Sample ID: LCS 460-1017967/2-A
Matrix: Solid
Analysis Batch: 1018056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017967

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C16-C21 Aromatics			33.3	32.0		mg/Kg		96	40 - 140
C10-C12 Aromatics			20.0	13.9		mg/Kg		70	40 - 140
C12-C16 Aromatics			26.7	20.1		mg/Kg		75	40 - 140
C21-C36 Aromatic			53.3	44.7		mg/Kg		84	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*93*		*40 - 140*
2-Fluorobiphenyl	*98*		*40 - 140*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCS 460-1017967/2-A
Matrix: Solid
Analysis Batch: 1018056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017967

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Bromonaphthalene	89		40 - 140

Lab Sample ID: LCS 460-1017967/2-A
Matrix: Solid
Analysis Batch: 1018055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017967

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics			20.0	12.1		mg/Kg		60	40 - 140		
C9-C12 Aliphatics			26.7	13.2		mg/Kg		49	40 - 140		
C16-C21 Aliphatics			20.0	19.1		mg/Kg		95	40 - 140		
C21-C40 Aliphatics			66.7	53.8		mg/Kg		81	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	92		40 - 140

Lab Sample ID: LCSD 460-1017967/3-A
Matrix: Solid
Analysis Batch: 1018056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017967

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C16-C21 Aromatics			33.3	27.0		mg/Kg		81	40 - 140	17	25
C10-C12 Aromatics			20.0	13.1		mg/Kg		66	40 - 140	6	25
C12-C16 Aromatics			26.7	17.9		mg/Kg		67	40 - 140	12	25
C21-C36 Aromatic			53.3	40.0		mg/Kg		75	40 - 140	11	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	77		40 - 140
2-Fluorobiphenyl	96		40 - 140
2-Bromonaphthalene	84		40 - 140

Lab Sample ID: LCSD 460-1017967/3-A
Matrix: Solid
Analysis Batch: 1018055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1017967

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics			20.0	10.7		mg/Kg		54	40 - 140	12	25
C9-C12 Aliphatics			26.7	12.4		mg/Kg		46	40 - 140	6	25
C16-C21 Aliphatics			20.0	17.0		mg/Kg		85	40 - 140	11	25
C21-C40 Aliphatics			66.7	47.6		mg/Kg		71	40 - 140	12	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctadecane	82		40 - 140

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 180-185280-C-1-D MS
Matrix: Solid
Analysis Batch: 1018056

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017967

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C16-C21 Aromatics	13	U	87.1	56.2		mg/Kg	☼	64	40 - 140
C10-C12 Aromatics	5.2	U F1	52.3	24.1		mg/Kg	☼	46	40 - 140
C12-C16 Aromatics	7.8	U	69.7	33.3		mg/Kg	☼	48	40 - 140
C21-C36 Aromatic	21	U	139	86.2		mg/Kg	☼	62	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*59*		*40 - 140*
2-Fluorobiphenyl	*91*		*40 - 140*
2-Bromonaphthalene	*81*		*40 - 140*

Lab Sample ID: 180-185280-C-1-D MS
Matrix: Solid
Analysis Batch: 1018055

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017967

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	5.2	U F1	52.3	18.9	F1	mg/Kg	☼	36	40 - 140
C9-C12 Aliphatics	7.8	U F1	69.7	18.9	F1	mg/Kg	☼	27	40 - 140
C16-C21 Aliphatics	8.3		52.3	35.8		mg/Kg	☼	53	40 - 140
C21-C40 Aliphatics	59	F1	174	112	F1	mg/Kg	☼	31	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctadecane	*53*		*40 - 140*

Lab Sample ID: 180-185280-C-1-E MSD
Matrix: Solid
Analysis Batch: 1018056

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017967

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C16-C21 Aromatics	13	U	87.2	52.6		mg/Kg	☼	60	40 - 140	7	25
C10-C12 Aromatics	5.2	U F1	52.3	20.7	F1	mg/Kg	☼	39	40 - 140	15	25
C12-C16 Aromatics	7.8	U	69.8	29.1		mg/Kg	☼	42	40 - 140	14	25
C21-C36 Aromatic	21	U	140	79.0		mg/Kg	☼	57	40 - 140	9	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*56*		*40 - 140*
2-Fluorobiphenyl	*82*		*40 - 140*
2-Bromonaphthalene	*76*		*40 - 140*

Lab Sample ID: 180-185280-C-1-E MSD
Matrix: Solid
Analysis Batch: 1018055

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017967

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	5.2	U F1	52.3	17.4	F1	mg/Kg	☼	33	40 - 140	8	25
C9-C12 Aliphatics	7.8	U F1	69.8	17.9	F1	mg/Kg	☼	26	40 - 140	5	25
C16-C21 Aliphatics	8.3		52.3	33.1		mg/Kg	☼	47	40 - 140	8	25
C21-C40 Aliphatics	59	F1	174	113	F1	mg/Kg	☼	31	40 - 140	0	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 180-185280-C-1-E MSD
Matrix: Solid
Analysis Batch: 1018055

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017967

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctadecane	49		40 - 140

Lab Sample ID: MB 460-1024177/1-A
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		03/05/25 10:24	03/05/25 21:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		40 - 140	03/05/25 10:24	03/05/25 21:09	1
2-Fluorobiphenyl	87		40 - 140	03/05/25 10:24	03/05/25 21:09	1
2-Bromonaphthalene	77		40 - 140	03/05/25 10:24	03/05/25 21:09	1
1-Chlorooctadecane	86		40 - 140	03/05/25 10:24	03/05/25 21:09	1

Lab Sample ID: LCS 460-1024177/2-A
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	20.0	8.92		mg/Kg		45	40 - 140
C9-C12 Aliphatics	26.7	10.8		mg/Kg		41	40 - 140
C16-C21 Aliphatics	20.0	13.8		mg/Kg		69	40 - 140
C21-C40 Aliphatics	66.7	43.7		mg/Kg		65	40 - 140
C16-C21 Aromatics	33.3	36.6		mg/Kg		110	40 - 140
C10-C12 Aromatics	20.0	14.4		mg/Kg		72	40 - 140
C12-C16 Aromatics	26.7	18.8		mg/Kg		70	40 - 140
C21-C36 Aromatic	53.3	34.5		mg/Kg		65	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	79		40 - 140
2-Fluorobiphenyl	103		40 - 140
2-Bromonaphthalene	86		40 - 140
1-Chlorooctadecane	74		40 - 140

Lab Sample ID: LCSD 460-1024177/3-A
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024177

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	20.0	9.60		mg/Kg		48	40 - 140	7	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCSD 460-1024177/3-A
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024177

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C12 Aliphatics			26.7	11.2		mg/Kg		42	40 - 140	4	25
C16-C21 Aliphatics			20.0	15.4		mg/Kg		77	40 - 140	11	25
C21-C40 Aliphatics			66.7	49.0		mg/Kg		74	40 - 140	12	25
C16-C21 Aromatics			33.3	29.1		mg/Kg		87	40 - 140	23	25
C10-C12 Aromatics			20.0	15.2		mg/Kg		76	40 - 140	6	25
C12-C16 Aromatics			26.7	20.2		mg/Kg		76	40 - 140	7	25
C21-C36 Aromatic			53.3	38.2		mg/Kg		72	40 - 140	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*88*		*40 - 140*
2-Fluorobiphenyl	*96*		*40 - 140*
2-Bromonaphthalene	*85*		*40 - 140*
1-Chlorooctadecane	*74*		*40 - 140*

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024177

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	2.0	U H F1	20.4	6.60	H F1	mg/Kg	☼	32	40 - 140
C9-C12 Aliphatics	3.1	U H F1	27.2	7.84	H F1	mg/Kg	☼	29	40 - 140
C16-C21 Aliphatics	2.0	U H	20.4	9.63	H	mg/Kg	☼	47	40 - 140
C21-C40 Aliphatics	7.1	U H	68.0	29.4	H	mg/Kg	☼	43	40 - 140
C16-C21 Aromatics	5.1	U H	34.0	18.2	H	mg/Kg	☼	53	40 - 140
C10-C12 Aromatics	2.0	U H F1	20.4	7.60	H F1	mg/Kg	☼	37	40 - 140
C12-C16 Aromatics	3.1	U H	27.2	11.7	H	mg/Kg	☼	43	40 - 140
C21-C36 Aromatic	8.2	U H	54.4	23.6	H	mg/Kg	☼	43	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*53*		*40 - 140*
2-Fluorobiphenyl	*81*		*40 - 140*
2-Bromonaphthalene	*75*		*40 - 140*
1-Chlorooctadecane	*43*		*40 - 140*

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024140

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024177

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.0	U H F1	20.4	6.69	H F1	mg/Kg	☼	33	40 - 140	1	25
C9-C12 Aliphatics	3.1	U H F1	27.2	7.44	H F1	mg/Kg	☼	27	40 - 140	5	25
C16-C21 Aliphatics	2.0	U H	20.4	10.2	H	mg/Kg	☼	50	40 - 140	6	25
C21-C40 Aliphatics	7.1	U H	68.0	32.5	H	mg/Kg	☼	48	40 - 140	10	25
C16-C21 Aromatics	5.1	U H	34.0	19.0	H	mg/Kg	☼	56	40 - 140	4	25
C10-C12 Aromatics	2.0	U H F1	20.4	9.36	H	mg/Kg	☼	46	40 - 140	21	25
C12-C16 Aromatics	3.1	U H	27.2	12.9	H	mg/Kg	☼	47	40 - 140	10	25
C21-C36 Aromatic	8.2	U H	54.4	26.9	H	mg/Kg	☼	49	40 - 140	13	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024141

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024177

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	54		40 - 140
2-Fluorobiphenyl	89		40 - 140
2-Bromonaphthalene	80		40 - 140
1-Chlorooctadecane	47		40 - 140

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1017972/1-A
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		01/24/25 10:30	01/24/25 13:59	1
Antimony	0.76	U	2.0	0.76	ug/L		01/24/25 10:30	01/24/25 13:59	1
Arsenic	0.89	U	2.0	0.89	ug/L		01/24/25 10:30	01/24/25 13:59	1
Barium	0.91	U	4.0	0.91	ug/L		01/24/25 10:30	01/24/25 13:59	1
Beryllium	0.13	U	0.80	0.13	ug/L		01/24/25 10:30	01/24/25 13:59	1
Cadmium	0.39	U	2.0	0.39	ug/L		01/24/25 10:30	01/24/25 13:59	1
Calcium	53.6	U	500	53.6	ug/L		01/24/25 10:30	01/24/25 13:59	1
Chromium	2.5	U	4.0	2.5	ug/L		01/24/25 10:30	01/24/25 13:59	1
Cobalt	0.71	U	4.0	0.71	ug/L		01/24/25 10:30	01/24/25 13:59	1
Copper	2.5	U	4.0	2.5	ug/L		01/24/25 10:30	01/24/25 13:59	1
Iron	58.2	U	120	58.2	ug/L		01/24/25 10:30	01/24/25 13:59	1
Lead	0.84	U	1.2	0.84	ug/L		01/24/25 10:30	01/24/25 13:59	1
Magnesium	46.9	U	200	46.9	ug/L		01/24/25 10:30	01/24/25 13:59	1
Manganese	1.5	U	8.0	1.5	ug/L		01/24/25 10:30	01/24/25 13:59	1
Nickel	0.91	U	4.0	0.91	ug/L		01/24/25 10:30	01/24/25 13:59	1
Potassium	112	U	200	112	ug/L		01/24/25 10:30	01/24/25 13:59	1
Selenium	0.59	U	2.5	0.59	ug/L		01/24/25 10:30	01/24/25 13:59	1
Silver	0.29	U	2.0	0.29	ug/L		01/24/25 10:30	01/24/25 13:59	1
Sodium	219	U	500	219	ug/L		01/24/25 10:30	01/24/25 13:59	1
Thallium	0.21	U	0.80	0.21	ug/L		01/24/25 10:30	01/24/25 13:59	1
Vanadium	0.68	U	4.0	0.68	ug/L		01/24/25 10:30	01/24/25 13:59	1
Zinc	6.5	U	16.0	6.5	ug/L		01/24/25 10:30	01/24/25 13:59	1

Lab Sample ID: LCS 460-1017972/2-A
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2720		ug/L		109	80 - 120
Antimony	25.0	24.26		ug/L		97	80 - 120
Arsenic	50.0	53.63		ug/L		107	80 - 120
Barium	50.0	53.47		ug/L		107	80 - 120
Beryllium	25.0	24.73		ug/L		99	80 - 120
Cadmium	25.0	24.86		ug/L		99	80 - 120
Calcium	2500	2672		ug/L		107	80 - 120
Chromium	50.0	53.37		ug/L		107	80 - 120
Cobalt	25.0	26.57		ug/L		106	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-1017972/2-A
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	50.0	53.67		ug/L		107	80 - 120
Iron	2500	2779		ug/L		111	80 - 120
Lead	25.0	25.71		ug/L		103	80 - 120
Magnesium	2500	2713		ug/L		109	80 - 120
Manganese	250	267.8		ug/L		107	80 - 120
Nickel	50.0	53.42		ug/L		107	80 - 120
Potassium	2500	2636		ug/L		105	80 - 120
Selenium	50.0	53.65		ug/L		107	80 - 120
Silver	25.0	25.17		ug/L		101	80 - 120
Sodium	2500	2755		ug/L		110	80 - 120
Thallium	20.0	20.87		ug/L		104	80 - 120
Vanadium	50.0	52.81		ug/L		106	80 - 120
Zinc	250	252.6		ug/L		101	80 - 120

Lab Sample ID: 460-319183-E-6-C MS
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	52.0		2500	2694		ug/L		106	75 - 125
Antimony	0.76	U	25.0	25.77		ug/L		103	75 - 125
Arsenic	0.89	U	50.0	51.96		ug/L		104	75 - 125
Barium	23.2		50.0	76.00		ug/L		106	75 - 125
Beryllium	0.13	U	25.0	26.24		ug/L		105	75 - 125
Cadmium	0.39	U	25.0	25.06		ug/L		100	75 - 125
Calcium	57800		2500	58960	4	ug/L		48	75 - 125
Chromium	2.9	J	50.0	53.72		ug/L		102	75 - 125
Cobalt	0.71	U	25.0	25.27		ug/L		101	75 - 125
Copper	2.5	U	50.0	52.00		ug/L		104	75 - 125
Iron	115	J	2500	2631		ug/L		101	75 - 125
Lead	0.84	U	25.0	26.27		ug/L		105	75 - 125
Magnesium	19500		2500	21860	4	ug/L		94	75 - 125
Manganese	81.8		250	337.5		ug/L		102	75 - 125
Nickel	1.4	J	50.0	50.41		ug/L		98	75 - 125
Potassium	3820		2500	6354		ug/L		101	75 - 125
Selenium	0.59	U	50.0	50.98		ug/L		102	75 - 125
Silver	0.29	U	25.0	24.33		ug/L		97	75 - 125
Thallium	0.21	U	20.0	20.36		ug/L		102	75 - 125
Vanadium	0.68	U	50.0	52.22		ug/L		104	75 - 125
Zinc	7.6	J	250	259.4		ug/L		101	75 - 125

Lab Sample ID: 460-319183-E-6-B DU
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	52.0		49.66		ug/L		5	20
Antimony	0.76	U	0.76	U	ug/L		NC	20
Arsenic	0.89	U	0.89	U	ug/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319183-E-6-B DU
Matrix: Water
Analysis Batch: 1017999

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1017972

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	23.2		23.19		ug/L		0.07	20
Beryllium	0.13	U	0.13	U	ug/L		NC	20
Cadmium	0.39	U	0.39	U	ug/L		NC	20
Calcium	57800		57640		ug/L		0.2	20
Chromium	2.9	J	2.95	J	ug/L		2	20
Cobalt	0.71	U	0.71	U	ug/L		NC	20
Copper	2.5	U	2.5	U	ug/L		NC	20
Iron	115	J	115.2	J	ug/L		0.07	20
Lead	0.84	U	0.84	U	ug/L		NC	20
Magnesium	19500		19320		ug/L		1	20
Manganese	81.8		81.60		ug/L		0.3	20
Nickel	1.4	J	1.45	J	ug/L		2	20
Potassium	3820		3833		ug/L		0.3	20
Selenium	0.59	U	0.59	U	ug/L		NC	20
Silver	0.29	U	0.29	U	ug/L		NC	20
Thallium	0.21	U	0.21	U	ug/L		NC	20
Vanadium	0.68	U	0.68	U	ug/L		NC	20
Zinc	7.6	J	8.59	J	ug/L		12	20

Lab Sample ID: MB 460-1018340/1-A
Matrix: Solid
Analysis Batch: 1018426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Antimony	0.15	U	1.0	0.15	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Barium	0.15	U	2.0	0.15	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Calcium	40.7	U	100	40.7	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Chromium	0.91	U	2.0	0.91	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Copper	0.37	U	2.0	0.37	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Iron	20.2	U	60.0	20.2	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Lead	0.20	U	0.60	0.20	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Magnesium	10.2	U	100	10.2	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Manganese	0.40	U	4.0	0.40	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Nickel	0.47	U	2.0	0.47	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Potassium	16.2	U	100	16.2	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Selenium	0.13	U	1.3	0.13	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Silver	0.089	U	0.40	0.089	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Sodium	45.7	U	100	45.7	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Thallium	0.041	U	0.40	0.041	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		01/28/25 06:02	01/28/25 13:55	1
Zinc	3.1	U	8.0	3.1	mg/Kg		01/28/25 06:02	01/28/25 13:55	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-1018340/2-A ^3
Matrix: Solid
Analysis Batch: 1018426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018340

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5940	5750		mg/Kg		96.8	46.1 - 153.9
Antimony	121	78.77		mg/Kg		65.1	0.1 - 200.8
Arsenic	242	262.0		mg/Kg		108.3	81.8 - 118.6
Barium	295	327.0		mg/Kg		110.9	81.7 - 118.3
Beryllium	160	171.9		mg/Kg		107.4	82.5 - 117.5
Cadmium	84.3	92.47		mg/Kg		109.7	82.2 - 117.8
Calcium	5270	5752		mg/Kg		109.1	82.5 - 117.5
Chromium	213	224.3		mg/Kg		105.3	81.2 - 119.2
Cobalt	137	154.1		mg/Kg		112.5	83.2 - 117.5
Copper	195	221.4		mg/Kg		113.5	83.1 - 116.9
Iron	6650	7151		mg/Kg		107.5	58.6 - 141.5
Lead	194	211.4		mg/Kg		109.0	82.0 - 118.6
Magnesium	1860	1880		mg/Kg		101.1	75.3 - 124.2
Manganese	264	282.2		mg/Kg		106.9	80.7 - 118.9
Nickel	298	325.2		mg/Kg		109.1	82.2 - 117.8
Potassium	2010	2058		mg/Kg		102.4	70.6 - 129.4
Selenium	272	307.5		mg/Kg		113.1	80.1 - 119.5
Silver	76.7	85.18		mg/Kg		111.1	79.5 - 120.5
Sodium	406	420.6		mg/Kg		103.6	74.9 - 124.9
Thallium	108	126.8		mg/Kg		117.4	80.0 - 119.4
Vanadium	169	188.1		mg/Kg		111.3	78.1 - 122.5
Zinc	236	242.7		mg/Kg		102.9	80.1 - 120.3

Lab Sample ID: 460-319175-E-5-S MS
Matrix: Solid
Analysis Batch: 1018426

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6950		596	6816	4	mg/Kg	☼	-23	75 - 125
Antimony	0.17	U F1	5.96	2.91	F1	mg/Kg	☼	49	75 - 125
Arsenic	0.87	J	11.9	11.51		mg/Kg	☼	89	75 - 125
Barium	61.9		11.9	80.50	4	mg/Kg	☼	156	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319175-E-5-S MS
Matrix: Solid
Analysis Batch: 1018426

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.25	J	5.96	5.77		mg/Kg	☼	93	75 - 125
Cadmium	0.13	U	5.96	5.27		mg/Kg	☼	88	75 - 125
Calcium	1920		596	2405		mg/Kg	☼	81	75 - 125
Chromium	14.8	F1	11.9	23.44	F1	mg/Kg	☼	72	75 - 125
Cobalt	6.0		5.96	10.49		mg/Kg	☼	76	75 - 125
Copper	19.7	F1	11.9	27.59	F1	mg/Kg	☼	66	75 - 125
Iron	13000		596	12140	4	mg/Kg	☼	-150	75 - 125
Lead	3.9		5.96	8.93		mg/Kg	☼	85	75 - 125
Magnesium	2580		596	2969	4	mg/Kg	☼	65	75 - 125
Manganese	250		59.6	280.8	4	mg/Kg	☼	51	75 - 125
Nickel	14.6		11.9	24.64		mg/Kg	☼	84	75 - 125
Potassium	2440		596	2727	4	mg/Kg	☼	48	75 - 125
Selenium	0.15	U	11.9	11.42		mg/Kg	☼	96	75 - 125
Silver	0.11	U	5.96	5.55		mg/Kg	☼	93	75 - 125
Sodium	735	F1	596	1165	F1	mg/Kg	☼	72	75 - 125
Thallium	0.15	J	4.77	4.52		mg/Kg	☼	92	75 - 125
Vanadium	17.8		11.9	27.98		mg/Kg	☼	85	75 - 125
Zinc	22.2		59.6	70.35		mg/Kg	☼	81	75 - 125

Lab Sample ID: 460-319175-E-5-T MSD
Matrix: Solid
Analysis Batch: 1018426

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	6950		596	7634	4	mg/Kg	☼	115	75 - 125	11	20
Antimony	0.17	U F1	5.96	2.99	F1	mg/Kg	☼	50	75 - 125	3	20
Arsenic	0.87	J	11.9	12.30		mg/Kg	☼	96	75 - 125	7	20
Barium	61.9		11.9	69.28	4	mg/Kg	☼	62	75 - 125	15	20
Beryllium	0.25	J	5.96	5.83		mg/Kg	☼	94	75 - 125	1	20
Cadmium	0.13	U	5.96	5.57		mg/Kg	☼	93	75 - 125	5	20
Calcium	1920		596	2474		mg/Kg	☼	93	75 - 125	3	20
Chromium	14.8	F1	11.9	25.59		mg/Kg	☼	90	75 - 125	9	20
Cobalt	6.0		5.96	11.22		mg/Kg	☼	88	75 - 125	7	20
Copper	19.7	F1	11.9	28.84		mg/Kg	☼	77	75 - 125	4	20
Iron	13000		596	13120	4	mg/Kg	☼	14	75 - 125	8	20
Lead	3.9		5.96	9.17		mg/Kg	☼	89	75 - 125	3	20
Magnesium	2580		596	3209	4	mg/Kg	☼	105	75 - 125	8	20
Manganese	250		59.6	307.1	4	mg/Kg	☼	95	75 - 125	9	20
Nickel	14.6		11.9	25.72		mg/Kg	☼	93	75 - 125	4	20
Potassium	2440		596	2991	4	mg/Kg	☼	92	75 - 125	9	20
Selenium	0.15	U	11.9	11.02		mg/Kg	☼	92	75 - 125	4	20
Silver	0.11	U	5.96	5.55		mg/Kg	☼	93	75 - 125	0	20
Sodium	735	F1	596	1212		mg/Kg	☼	80	75 - 125	4	20
Thallium	0.15	J	4.77	4.62		mg/Kg	☼	94	75 - 125	2	20
Vanadium	17.8		11.9	29.27		mg/Kg	☼	96	75 - 125	5	20
Zinc	22.2		59.6	75.38		mg/Kg	☼	89	75 - 125	7	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319175-E-5-R DU
Matrix: Solid
Analysis Batch: 1018426

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018340

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	6950		6785		mg/Kg	☼	2	20
Antimony	0.17	U F1	0.17	U	mg/Kg	☼	NC	20
Arsenic	0.87	J	0.979	J	mg/Kg	☼	12	20
Barium	61.9		50.78		mg/Kg	☼	20	20
Beryllium	0.25	J	0.228	J	mg/Kg	☼	9	20
Cadmium	0.13	U	0.13	U	mg/Kg	☼	NC	20
Calcium	1920		1856		mg/Kg	☼	4	20
Chromium	14.8	F1	14.06		mg/Kg	☼	5	20
Cobalt	6.0		5.61		mg/Kg	☼	6	20
Copper	19.7	F1	18.62		mg/Kg	☼	6	20
Iron	13000		12670		mg/Kg	☼	3	20
Lead	3.9		3.37		mg/Kg	☼	14	20
Magnesium	2580		2714		mg/Kg	☼	5	20
Manganese	250		265.1		mg/Kg	☼	6	20
Nickel	14.6		15.51		mg/Kg	☼	6	20
Potassium	2440		2486		mg/Kg	☼	2	20
Selenium	0.15	U	0.15	U	mg/Kg	☼	NC	20
Silver	0.11	U	0.11	U	mg/Kg	☼	NC	20
Sodium	735	F1	701.3		mg/Kg	☼	5	20
Thallium	0.15	J	0.120	J F5	mg/Kg	☼	21	20
Vanadium	17.8		18.51		mg/Kg	☼	4	20
Zinc	22.2		21.44		mg/Kg	☼	3	20

Lab Sample ID: MB 460-1024134/1-A
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Antimony	0.15	U	1.0	0.15	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Barium	0.15	U	2.0	0.15	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Calcium	40.7	U	100	40.7	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Chromium	0.91	U	2.0	0.91	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Copper	0.37	U	2.0	0.37	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Iron	20.2	U	60.0	20.2	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Lead	0.20	U	0.60	0.20	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Magnesium	10.2	U	100	10.2	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Manganese	0.40	U	4.0	0.40	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Nickel	0.47	U	2.0	0.47	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Potassium	16.2	U	100	16.2	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Selenium	0.13	U	1.3	0.13	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Silver	0.089	U	0.40	0.089	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Sodium	45.7	U	100	45.7	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Thallium	0.041	U	0.40	0.041	mg/Kg		03/05/25 07:28	03/05/25 17:22	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		03/05/25 07:28	03/05/25 17:22	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1024134/1-A
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	3.1	U	8.0	3.1	mg/Kg		03/05/25 07:28	03/05/25 17:22	1

Lab Sample ID: LCSSRM 460-1024134/2-A ^3
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6840	6903		mg/Kg		100.9	53.2 - 146.2
Antimony	131	102.4		mg/Kg		78.1	4.5 - 195.4
Arsenic	192	221.2		mg/Kg		115.2	81.3 - 118.8
Barium	219	253.0		mg/Kg		115.5	81.7 - 118.3
Beryllium	146	144.5		mg/Kg		99.0	82.2 - 117.8
Cadmium	114	127.5		mg/Kg		111.9	81.7 - 118.4
Calcium	4080	4458		mg/Kg		109.3	82.4 - 117.6
Chromium	153	168.2		mg/Kg		110.0	81.0 - 119.0
Cobalt	231	266.6		mg/Kg		115.4	83.1 - 117.3
Copper	91.2	102.4		mg/Kg		112.3	83.1 - 117.3
Iron	7020	7534		mg/Kg		107.3	60.7 - 139.2
Lead	141	150.6		mg/Kg		106.8	81.6 - 118.4
Magnesium	1900	1976		mg/Kg		104.0	76.3 - 123.7
Manganese	401	440.7		mg/Kg		109.9	80.8 - 119.0
Nickel	143	164.2		mg/Kg		114.8	81.8 - 118.9
Potassium	1760	1866		mg/Kg		106.0	72.2 - 127.8
Selenium	94.7	111.8		mg/Kg		118.1	78.5 - 121.4
Silver	77.0	85.33		mg/Kg		110.8	79.4 - 120.6
Sodium	661	714.7		mg/Kg		108.1	73.7 - 126.2
Thallium	183	206.1		mg/Kg		112.6	80.3 - 119.7
Vanadium	159	172.6		mg/Kg		108.6	78.6 - 122.0
Zinc	292	336.3		mg/Kg		115.2	79.8 - 120.2

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	699	F1	511	1411	F1	mg/Kg	☼	139	75 - 125
Antimony	0.16	J F1	5.11	3.43	F1	mg/Kg	☼	64	75 - 125
Arsenic	0.51	J	10.2	8.86		mg/Kg	☼	82	75 - 125
Barium	26.1	F1	10.2	12.75	F1	mg/Kg	☼	-131	75 - 125
Beryllium	0.058	U	5.11	3.85		mg/Kg	☼	75	75 - 125
Cadmium	0.12	U	5.11	4.17		mg/Kg	☼	82	75 - 125
Calcium	126		511	516.4		mg/Kg	☼	76	75 - 125
Chromium	1.7	J	10.2	10.15		mg/Kg	☼	83	75 - 125
Cobalt	0.15	U	5.11	4.52		mg/Kg	☼	88	75 - 125
Copper	2.6		10.2	11.46		mg/Kg	☼	86	75 - 125
Iron	651		511	1058		mg/Kg	☼	80	75 - 125
Lead	14.3	F1	5.11	18.06	F1	mg/Kg	☼	73	75 - 125
Magnesium	46.1	J	511	455.4		mg/Kg	☼	80	75 - 125
Manganese	3.3	J	51.1	45.97		mg/Kg	☼	84	75 - 125
Nickel	0.66	J	10.2	9.65		mg/Kg	☼	88	75 - 125
Potassium	65.0	J	511	484.6		mg/Kg	☼	82	75 - 125
Selenium	0.14	J	10.2	8.39		mg/Kg	☼	81	75 - 125
Silver	0.091	U	5.11	3.93		mg/Kg	☼	77	75 - 125
Sodium	46.7	U	511	437.8		mg/Kg	☼	86	75 - 125
Thallium	0.042	U	4.09	3.33		mg/Kg	☼	81	75 - 125
Vanadium	3.2		10.2	11.72		mg/Kg	☼	84	75 - 125
Zinc	4.7	J	51.1	47.45		mg/Kg	☼	84	75 - 125

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	699	F1	511	1455	F1	mg/Kg	☼	148	75 - 125	3	20
Antimony	0.16	J F1	5.11	3.55	F1	mg/Kg	☼	66	75 - 125	3	20
Arsenic	0.51	J	10.2	9.03		mg/Kg	☼	83	75 - 125	2	20
Barium	26.1	F1	10.2	13.97	F1	mg/Kg	☼	-119	75 - 125	9	20
Beryllium	0.058	U	5.11	3.97		mg/Kg	☼	78	75 - 125	3	20
Cadmium	0.12	U	5.11	4.33		mg/Kg	☼	85	75 - 125	4	20
Calcium	126		511	527.7		mg/Kg	☼	79	75 - 125	2	20
Chromium	1.7	J	10.2	10.52		mg/Kg	☼	86	75 - 125	4	20
Cobalt	0.15	U	5.11	4.68		mg/Kg	☼	92	75 - 125	3	20
Copper	2.6		10.2	11.82		mg/Kg	☼	90	75 - 125	3	20
Iron	651		511	1116		mg/Kg	☼	91	75 - 125	5	20
Lead	14.3	F1	5.11	20.87	F1	mg/Kg	☼	128	75 - 125	14	20
Magnesium	46.1	J	511	470.5		mg/Kg	☼	83	75 - 125	3	20
Manganese	3.3	J	51.1	47.54		mg/Kg	☼	87	75 - 125	3	20
Nickel	0.66	J	10.2	9.97		mg/Kg	☼	91	75 - 125	3	20
Potassium	65.0	J	511	487.0		mg/Kg	☼	83	75 - 125	1	20
Selenium	0.14	J	10.2	8.34		mg/Kg	☼	80	75 - 125	1	20
Silver	0.091	U	5.11	4.02		mg/Kg	☼	79	75 - 125	2	20
Sodium	46.7	U	511	449.6		mg/Kg	☼	88	75 - 125	3	20
Thallium	0.042	U	4.09	3.41		mg/Kg	☼	83	75 - 125	3	20
Vanadium	3.2		10.2	12.49		mg/Kg	☼	91	75 - 125	6	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	4.7	J	51.1	49.04		mg/Kg	☼	87	75 - 125	3	20

Lab Sample ID: 460-319165-15 DU
Matrix: Solid
Analysis Batch: 1024283

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024134

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	699	F1	592.0		mg/Kg	☼	17	20
Antimony	0.16	J F1	0.15	U	mg/Kg	☼	NC	20
Arsenic	0.51	J	0.460	J	mg/Kg	☼	11	20
Barium	26.1	F1	3.86	F3	mg/Kg	☼	148	20
Beryllium	0.058	U	0.058	U	mg/Kg	☼	NC	20
Cadmium	0.12	U	0.12	U	mg/Kg	☼	NC	20
Calcium	126		101.8	J F5	mg/Kg	☼	21	20
Chromium	1.7	J	1.48	J	mg/Kg	☼	14	20
Cobalt	0.15	U	0.15	U	mg/Kg	☼	NC	20
Copper	2.6		2.40		mg/Kg	☼	10	20
Iron	651		592.6		mg/Kg	☼	9	20
Lead	14.3	F1	12.42		mg/Kg	☼	14	20
Magnesium	46.1	J	38.53	J	mg/Kg	☼	18	20
Manganese	3.3	J	3.01	J	mg/Kg	☼	8	20
Nickel	0.66	J	0.590	J	mg/Kg	☼	11	20
Potassium	65.0	J	47.83	J F5	mg/Kg	☼	30	20
Selenium	0.14	J	0.157	J	mg/Kg	☼	10	20
Silver	0.091	U	0.091	U	mg/Kg	☼	NC	20
Sodium	46.7	U	46.7	U	mg/Kg	☼	NC	20
Thallium	0.042	U	0.042	U	mg/Kg	☼	NC	20
Vanadium	3.2		2.89		mg/Kg	☼	10	20
Zinc	4.7	J	4.15	J	mg/Kg	☼	12	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-1017796/1-A
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/23/25 11:38	01/23/25 14:21	1

Lab Sample ID: LCS 460-1017796/2-A
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.999		ug/L		100	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 460-319158-F-2-C MS
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.091	U	1.00	1.05		ug/L		105	75 - 125

Lab Sample ID: 460-319158-F-2-D MSD
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.091	U	1.00	1.03		ug/L		103	75 - 125	2	20

Lab Sample ID: 460-319158-F-2-B DU
Matrix: Water
Analysis Batch: 1017835

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1017796

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.091	U	0.091	U	ug/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-1018161/1-A
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		01/27/25 01:13	01/27/25 05:12	1

Lab Sample ID: LCSSRM 460-1018161/2-A ^40
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018161

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	22.8	24.32		mg/Kg		106.7	70.6 - 129.4

Lab Sample ID: 460-319175-E-5-K MS
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0085	U	0.0890	0.0928		mg/Kg	☼	104	80 - 120

Lab Sample ID: 460-319175-E-5-L MSD
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0085	U	0.0890	0.0905		mg/Kg	☼	102	80 - 120	2	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-319175-A-5-D DU
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018161

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.0085	U		0.0085	U	mg/Kg	☼			NC	20

Lab Sample ID: MB 460-1024098/1-A
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		03/05/25 01:20	03/05/25 06:26	1

Lab Sample ID: LCSSRM 460-1024098/2-A ^40
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024098

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			14.1	13.47		mg/Kg		95.5	69.6 - 130.5		

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.017	H	0.0774	0.0961	H	mg/Kg	☼	102	80 - 120		

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.017	H	0.0774	0.0994	H	mg/Kg	☼	107	80 - 120	3	20

Lab Sample ID: 460-319165-15 DU
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.017	H		0.0187		mg/Kg	☼			11	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-1018026/13-A
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0040	U	0.010	0.0040	mg/L		01/24/25 17:52	01/24/25 20:48	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 460-1018026/14-A
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.100	0.0922		mg/L		92	85 - 115		

Lab Sample ID: 460-318827-I-1-B MS
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.0040	U F1	0.200	0.174	F1	mg/L		87	90 - 110		

Lab Sample ID: 460-318827-I-1-C MSD
Matrix: Water
Analysis Batch: 1018045

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0040	U F1	0.200	0.174	F1	mg/L		87	90 - 110	0	35

Lab Sample ID: MB 460-1018379/13-A
Matrix: Solid
Analysis Batch: 1018404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		01/28/25 09:12	01/28/25 12:19	1

Lab Sample ID: LCSSRM 460-1018379/14-A ^20
Matrix: Solid
Analysis Batch: 1018404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018379

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			159	102.7		mg/Kg		64.5	14.9 - 114.5		

Lab Sample ID: 460-319127-C-12-H MS
Matrix: Solid
Analysis Batch: 1018404

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.14	U	4.29	3.97		mg/Kg	☼	93	29 - 100		

Lab Sample ID: 460-319127-C-12-I MSD
Matrix: Solid
Analysis Batch: 1018404

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.14	U	4.15	3.86		mg/Kg	☼	93	29 - 100	3	40

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: MB 460-1024429/1-A
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		03/06/25 10:06	03/06/25 13:12	1

Lab Sample ID: LCSSRM 460-1024429/2-A ^20
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	172	106.1		mg/Kg		61.7	14.9 - 114.5

Lab Sample ID: 460-319165-15 MS
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.12	U H	4.54	4.27	H	mg/Kg	☼	94	29 - 100

Lab Sample ID: 460-319165-15 MSD
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: 2B-04-TS
Prep Type: Total/NA
Prep Batch: 1024429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.12	U H	4.54	4.27	H	mg/Kg	☼	94	29 - 100	0	40

Lab Sample ID: MRL 460-1024444/12-A
Matrix: Solid
Analysis Batch: 1024494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024444

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0112		mg/L		112	50 - 150

Method: Moisture - Percent Moisture

Lab Sample ID: 460-319164-A-1 DU
Matrix: Solid
Analysis Batch: 1017653

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	25.5		24.4		%		5	20
Percent Solids	74.5		75.6		%		2	20

Lab Sample ID: 460-319164-A-2 DU
Matrix: Solid
Analysis Batch: 1017653

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.9		17.4		%		9	20
Percent Solids	84.1		82.6		%		2	20

GC/MS VOA

Prep Batch: 1017714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	5035	
460-319165-3	IA-01-CS	Total/NA	Solid	5035	
460-319165-4	IA-04-TS	Total/NA	Solid	5035	
460-319165-5	IA-04-CS-4	Total/NA	Solid	5035	
460-319165-6	IA-04-CS-8	Total/NA	Solid	5035	
460-319165-7	2B-07-CS-4	Total/NA	Solid	5035	
460-319165-8	2B-07-CS-8	Total/NA	Solid	5035	
460-319165-9	2B-05-CS-4	Total/NA	Solid	5035	
460-319165-10	2B-05-CS-8	Total/NA	Solid	5035	
460-319165-11	DUP-02	Total/NA	Solid	5035	
460-319165-12	2B-03-TS	Total/NA	Solid	5035	
460-319165-13	2B-03-CS-4	Total/NA	Solid	5035	
460-319165-14	2B-03-CS-8	Total/NA	Solid	5035	
460-319165-15	2B-04-TS	Total/NA	Solid	5035	
460-319165-16	2B-04-CS-4	Total/NA	Solid	5035	
460-319165-17	2B-04-CS-8	Total/NA	Solid	5035	
LB3 460-1017714/1-A	Method Blank	Total/NA	Solid	5035	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	5035	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	5035	

Analysis Batch: 1017719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	8260D	
460-319165-18	TRIP BLANK	Total/NA	Water	8260D	
MB 460-1017719/8	Method Blank	Total/NA	Water	8260D	
LCS 460-1017719/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1017719/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 1018049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-1017714/1-A	Method Blank	Total/NA	Solid	8260D	1017714
MB 460-1018049/6	Method Blank	Total/NA	Solid	8260D	
LCS 460-1018049/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1018049/3	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1018325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	8260D	1017714
460-319165-3	IA-01-CS	Total/NA	Solid	8260D	1017714
460-319165-7	2B-07-CS-4	Total/NA	Solid	8260D	1017714
460-319165-8	2B-07-CS-8	Total/NA	Solid	8260D	1017714
460-319165-12	2B-03-TS	Total/NA	Solid	8260D	1017714
460-319165-13	2B-03-CS-4	Total/NA	Solid	8260D	1017714
460-319165-14	2B-03-CS-8	Total/NA	Solid	8260D	1017714
MB 460-1018325/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1018325/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1018325/3	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1023968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	8260D	1017714

GC/MS VOA (Continued)

Analysis Batch: 1023968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-5	IA-04-CS-4	Total/NA	Solid	8260D	1017714
460-319165-6	IA-04-CS-8	Total/NA	Solid	8260D	1017714
460-319165-9	2B-05-CS-4	Total/NA	Solid	8260D	1017714
460-319165-10	2B-05-CS-8	Total/NA	Solid	8260D	1017714
460-319165-11	DUP-02	Total/NA	Solid	8260D	1017714
460-319165-15	2B-04-TS	Total/NA	Solid	8260D	1017714
460-319165-16	2B-04-CS-4	Total/NA	Solid	8260D	1017714
460-319165-17	2B-04-CS-8	Total/NA	Solid	8260D	1017714
MB 460-1023968/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1023968/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1023968/3	Lab Control Sample Dup	Total/NA	Solid	8260D	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	8260D	1017714
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	8260D	1017714

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Prep Batch: 1017758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	3546	
460-319165-3	IA-01-CS	Total/NA	Solid	3546	
460-319165-7	2B-07-CS-4	Total/NA	Solid	3546	
460-319165-8	2B-07-CS-8	Total/NA	Solid	3546	
460-319165-12	2B-03-TS	Total/NA	Solid	3546	
460-319165-13	2B-03-CS-4	Total/NA	Solid	3546	
460-319165-14	2B-03-CS-8	Total/NA	Solid	3546	
MB 460-1017758/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1017758/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1017758/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319135-I-15-A MS	Matrix Spike	Total/NA	Solid	3546	
460-319135-I-15-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 1017771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	3510C	
MB 460-1017771/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017771/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017771/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-S-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
460-319158-T-2-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 1017845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	8270E	1017758
460-319165-3	IA-01-CS	Total/NA	Solid	8270E	1017758
460-319165-7	2B-07-CS-4	Total/NA	Solid	8270E	1017758
460-319165-8	2B-07-CS-8	Total/NA	Solid	8270E	1017758
460-319165-12	2B-03-TS	Total/NA	Solid	8270E	1017758
460-319165-13	2B-03-CS-4	Total/NA	Solid	8270E	1017758
460-319165-14	2B-03-CS-8	Total/NA	Solid	8270E	1017758
MB 460-1017758/1-A	Method Blank	Total/NA	Solid	8270E	1017758
LCS 460-1017758/2-A	Lab Control Sample	Total/NA	Solid	8270E	1017758

GC/MS Semi VOA (Continued)

Analysis Batch: 1017845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-1017758/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1017758
460-319135-I-15-A MS	Matrix Spike	Total/NA	Solid	8270E	1017758
460-319135-I-15-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	1017758

Analysis Batch: 1017857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	8270E	1017771
MB 460-1017771/1-A	Method Blank	Total/NA	Water	8270E	1017771
LCS 460-1017771/2-A	Lab Control Sample	Total/NA	Water	8270E	1017771
LCSD 460-1017771/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1017771
460-319158-S-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	8270E	1017771
460-319158-T-2-A MS	Matrix Spike	Total/NA	Water	8270E	1017771

Prep Batch: 1023975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	3546	
460-319165-5	IA-04-CS-4	Total/NA	Solid	3546	
460-319165-6	IA-04-CS-8	Total/NA	Solid	3546	
460-319165-9	2B-05-CS-4	Total/NA	Solid	3546	
460-319165-10	2B-05-CS-8	Total/NA	Solid	3546	
460-319165-11	DUP-02	Total/NA	Solid	3546	
460-319165-15	2B-04-TS	Total/NA	Solid	3546	
460-319165-16	2B-04-CS-4	Total/NA	Solid	3546	
460-319165-17	2B-04-CS-8	Total/NA	Solid	3546	
MB 460-1023975/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1023975/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1023975/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	3546	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	3546	

Analysis Batch: 1023993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	8270E	1023975
460-319165-5	IA-04-CS-4	Total/NA	Solid	8270E	1023975
460-319165-6	IA-04-CS-8	Total/NA	Solid	8270E	1023975
460-319165-9	2B-05-CS-4	Total/NA	Solid	8270E	1023975
460-319165-10	2B-05-CS-8	Total/NA	Solid	8270E	1023975
460-319165-11	DUP-02	Total/NA	Solid	8270E	1023975
460-319165-15	2B-04-TS	Total/NA	Solid	8270E	1023975
460-319165-16	2B-04-CS-4	Total/NA	Solid	8270E	1023975
460-319165-17	2B-04-CS-8	Total/NA	Solid	8270E	1023975
MB 460-1023975/1-A	Method Blank	Total/NA	Solid	8270E	1023975
LCS 460-1023975/2-A	Lab Control Sample	Total/NA	Solid	8270E	1023975
LCSD 460-1023975/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1023975
460-319165-15 MS	2B-04-TS	Total/NA	Solid	8270E	1023975
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	8270E	1023975

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Analysis Batch: 1017751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	NJDEP EPH	1017775
MB 460-1017775/1-A	Method Blank	Total/NA	Water	NJDEP EPH	1017775
LCS 460-1017775/2-A	Lab Control Sample	Total/NA	Water	NJDEP EPH	1017775
LCSD 460-1017775/3-A	Lab Control Sample Dup	Total/NA	Water	NJDEP EPH	1017775

Prep Batch: 1017775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	3510C	
MB 460-1017775/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017775/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017775/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 1017866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	3510C	
MB 460-1017866/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017866/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017866/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-H-2-A MS	Matrix Spike	Total/NA	Water	3510C	
460-319158-H-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Prep Batch: 1017868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	3510C	
MB 460-1017868/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1017868/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1017868/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-319158-K-2-A MS	Matrix Spike	Total/NA	Water	3510C	
460-319158-K-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 1017886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1017868/1-A	Method Blank	Total/NA	Water	8081B	1017868
LCS 460-1017868/2-A	Lab Control Sample	Total/NA	Water	8081B	1017868
LCSD 460-1017868/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	1017868
460-319158-K-2-A MS	Matrix Spike	Total/NA	Water	8081B	1017868
460-319158-K-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8081B	1017868

Analysis Batch: 1017892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1017866/1-A	Method Blank	Total/NA	Water	8082A	1017866
LCS 460-1017866/2-A	Lab Control Sample	Total/NA	Water	8082A	1017866
LCSD 460-1017866/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	1017866
460-319158-H-2-A MS	Matrix Spike	Total/NA	Water	8082A	1017866
460-319158-H-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8082A	1017866

Prep Batch: 1017967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	3546	
460-319165-3	IA-01-CS	Total/NA	Solid	3546	
460-319165-7	2B-07-CS-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 1017967 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-8	2B-07-CS-8	Total/NA	Solid	3546	
460-319165-12	2B-03-TS	Total/NA	Solid	3546	
460-319165-13	2B-03-CS-4	Total/NA	Solid	3546	
460-319165-14	2B-03-CS-8	Total/NA	Solid	3546	
MB 460-1017967/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1017967/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1017967/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
180-185280-C-1-D MS	Matrix Spike	Total/NA	Solid	3546	
180-185280-C-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1018055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	NJDEP EPH	1017967
460-319165-3	IA-01-CS	Total/NA	Solid	NJDEP EPH	1017967
460-319165-7	2B-07-CS-4	Total/NA	Solid	NJDEP EPH	1017967
460-319165-8	2B-07-CS-8	Total/NA	Solid	NJDEP EPH	1017967
460-319165-12	2B-03-TS	Total/NA	Solid	NJDEP EPH	1017967
460-319165-13	2B-03-CS-4	Total/NA	Solid	NJDEP EPH	1017967
460-319165-14	2B-03-CS-8	Total/NA	Solid	NJDEP EPH	1017967
MB 460-1017967/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1017967
LCS 460-1017967/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1017967
LCSD 460-1017967/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1017967
180-185280-C-1-D MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1017967
180-185280-C-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1017967

Analysis Batch: 1018056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	NJDEP EPH	1017967
460-319165-3	IA-01-CS	Total/NA	Solid	NJDEP EPH	1017967
460-319165-7	2B-07-CS-4	Total/NA	Solid	NJDEP EPH	1017967
460-319165-8	2B-07-CS-8	Total/NA	Solid	NJDEP EPH	1017967
460-319165-12	2B-03-TS	Total/NA	Solid	NJDEP EPH	1017967
460-319165-13	2B-03-CS-4	Total/NA	Solid	NJDEP EPH	1017967
460-319165-14	2B-03-CS-8	Total/NA	Solid	NJDEP EPH	1017967
MB 460-1017967/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1017967
LCS 460-1017967/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1017967
LCSD 460-1017967/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1017967
180-185280-C-1-D MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1017967
180-185280-C-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1017967

Analysis Batch: 1018082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	NJ DEP EPH	
460-319165-3	IA-01-CS	Total/NA	Solid	NJ DEP EPH	
460-319165-7	2B-07-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319165-8	2B-07-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319165-12	2B-03-TS	Total/NA	Solid	NJ DEP EPH	
460-319165-13	2B-03-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319165-14	2B-03-CS-8	Total/NA	Solid	NJ DEP EPH	

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Prep Batch: 1018100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	3546	
460-319165-3	IA-01-CS	Total/NA	Solid	3546	
460-319165-7	2B-07-CS-4	Total/NA	Solid	3546	
460-319165-8	2B-07-CS-8	Total/NA	Solid	3546	
460-319165-12	2B-03-TS	Total/NA	Solid	3546	
460-319165-13	2B-03-CS-4	Total/NA	Solid	3546	
460-319165-14	2B-03-CS-8	Total/NA	Solid	3546	
MB 460-1018100/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018100/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018100/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319121-E-4-O MS	Matrix Spike	Total/NA	Solid	3546	
460-319121-E-4-P MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 1018101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	3546	
460-319165-3	IA-01-CS	Total/NA	Solid	3546	
460-319165-7	2B-07-CS-4	Total/NA	Solid	3546	
460-319165-8	2B-07-CS-8	Total/NA	Solid	3546	
460-319165-12	2B-03-TS	Total/NA	Solid	3546	
460-319165-13	2B-03-CS-4	Total/NA	Solid	3546	
460-319165-14	2B-03-CS-8	Total/NA	Solid	3546	
MB 460-1018101/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018101/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018101/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319121-E-4-R MS	Matrix Spike	Total/NA	Solid	3546	
460-319121-E-4-S MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1018121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	8082A	1018100
460-319165-3	IA-01-CS	Total/NA	Solid	8082A	1018100
460-319165-7	2B-07-CS-4	Total/NA	Solid	8082A	1018100
460-319165-8	2B-07-CS-8	Total/NA	Solid	8082A	1018100
460-319165-12	2B-03-TS	Total/NA	Solid	8082A	1018100
460-319165-13	2B-03-CS-4	Total/NA	Solid	8082A	1018100
460-319165-14	2B-03-CS-8	Total/NA	Solid	8082A	1018100
MB 460-1018100/1-A	Method Blank	Total/NA	Solid	8082A	1018100
LCS 460-1018100/2-A	Lab Control Sample	Total/NA	Solid	8082A	1018100
LCSD 460-1018100/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1018100
460-319121-E-4-O MS	Matrix Spike	Total/NA	Solid	8082A	1018100
460-319121-E-4-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	1018100

Analysis Batch: 1018166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	8081B	1017868

Analysis Batch: 1018172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	8081B	1018101
460-319165-3	IA-01-CS	Total/NA	Solid	8081B	1018101

GC Semi VOA (Continued)

Analysis Batch: 1018172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-7	2B-07-CS-4	Total/NA	Solid	8081B	1018101
460-319165-8	2B-07-CS-8	Total/NA	Solid	8081B	1018101
460-319165-12	2B-03-TS	Total/NA	Solid	8081B	1018101
460-319165-13	2B-03-CS-4	Total/NA	Solid	8081B	1018101
460-319165-14	2B-03-CS-8	Total/NA	Solid	8081B	1018101
MB 460-1018101/1-A	Method Blank	Total/NA	Solid	8081B	1018101
LCS 460-1018101/2-A	Lab Control Sample	Total/NA	Solid	8081B	1018101
LCSD 460-1018101/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1018101
460-319121-E-4-R MS	Matrix Spike	Total/NA	Solid	8081B	1018101
460-319121-E-4-S MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	1018101

Analysis Batch: 1018183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	8082A	1017866

Analysis Batch: 1024140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	NJDEP EPH	1024177
460-319165-5	IA-04-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319165-6	IA-04-CS-8	Total/NA	Solid	NJDEP EPH	1024177
460-319165-9	2B-05-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319165-10	2B-05-CS-8	Total/NA	Solid	NJDEP EPH	1024177
460-319165-11	DUP-02	Total/NA	Solid	NJDEP EPH	1024177
460-319165-15	2B-04-TS	Total/NA	Solid	NJDEP EPH	1024177
460-319165-16	2B-04-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319165-17	2B-04-CS-8	Total/NA	Solid	NJDEP EPH	1024177
MB 460-1024177/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024177
LCS 460-1024177/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024177
LCSD 460-1024177/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024177
460-319165-15 MS	2B-04-TS	Total/NA	Solid	NJDEP EPH	1024177
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	NJDEP EPH	1024177

Analysis Batch: 1024141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	NJDEP EPH	1024177
460-319165-5	IA-04-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319165-6	IA-04-CS-8	Total/NA	Solid	NJDEP EPH	1024177
460-319165-9	2B-05-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319165-10	2B-05-CS-8	Total/NA	Solid	NJDEP EPH	1024177
460-319165-11	DUP-02	Total/NA	Solid	NJDEP EPH	1024177
460-319165-15	2B-04-TS	Total/NA	Solid	NJDEP EPH	1024177
460-319165-16	2B-04-CS-4	Total/NA	Solid	NJDEP EPH	1024177
460-319165-17	2B-04-CS-8	Total/NA	Solid	NJDEP EPH	1024177
MB 460-1024177/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024177
LCS 460-1024177/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024177
LCSD 460-1024177/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024177
460-319165-15 MS	2B-04-TS	Total/NA	Solid	NJDEP EPH	1024177
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	NJDEP EPH	1024177

GC Semi VOA

Prep Batch: 1024177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	3546	
460-319165-5	IA-04-CS-4	Total/NA	Solid	3546	
460-319165-6	IA-04-CS-8	Total/NA	Solid	3546	
460-319165-9	2B-05-CS-4	Total/NA	Solid	3546	
460-319165-10	2B-05-CS-8	Total/NA	Solid	3546	
460-319165-11	DUP-02	Total/NA	Solid	3546	
460-319165-15	2B-04-TS	Total/NA	Solid	3546	
460-319165-16	2B-04-CS-4	Total/NA	Solid	3546	
460-319165-17	2B-04-CS-8	Total/NA	Solid	3546	
MB 460-1024177/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024177/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024177/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	3546	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	3546	

Prep Batch: 1024180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	3546	
460-319165-5	IA-04-CS-4	Total/NA	Solid	3546	
460-319165-6	IA-04-CS-8	Total/NA	Solid	3546	
460-319165-9	2B-05-CS-4	Total/NA	Solid	3546	
460-319165-10	2B-05-CS-8	Total/NA	Solid	3546	
460-319165-11	DUP-02	Total/NA	Solid	3546	
460-319165-15	2B-04-TS	Total/NA	Solid	3546	
460-319165-16	2B-04-CS-4	Total/NA	Solid	3546	
460-319165-17	2B-04-CS-8	Total/NA	Solid	3546	
MB 460-1024180/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024180/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024180/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	3546	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	3546	

Prep Batch: 1024184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	3546	
460-319165-5	IA-04-CS-4	Total/NA	Solid	3546	
460-319165-6	IA-04-CS-8	Total/NA	Solid	3546	
460-319165-9	2B-05-CS-4	Total/NA	Solid	3546	
460-319165-10	2B-05-CS-8	Total/NA	Solid	3546	
460-319165-11	DUP-02	Total/NA	Solid	3546	
460-319165-15	2B-04-TS	Total/NA	Solid	3546	
460-319165-16	2B-04-CS-4	Total/NA	Solid	3546	
460-319165-17	2B-04-CS-8	Total/NA	Solid	3546	
MB 460-1024184/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024184/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024184/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	3546	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	3546	

GC Semi VOA

Analysis Batch: 1024260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	8082A	1024184
460-319165-5	IA-04-CS-4	Total/NA	Solid	8082A	1024184
460-319165-6	IA-04-CS-8	Total/NA	Solid	8082A	1024184
460-319165-9	2B-05-CS-4	Total/NA	Solid	8082A	1024184
460-319165-10	2B-05-CS-8	Total/NA	Solid	8082A	1024184
460-319165-11	DUP-02	Total/NA	Solid	8082A	1024184
460-319165-15	2B-04-TS	Total/NA	Solid	8082A	1024184
460-319165-16	2B-04-CS-4	Total/NA	Solid	8082A	1024184
460-319165-17	2B-04-CS-8	Total/NA	Solid	8082A	1024184
MB 460-1024184/1-A	Method Blank	Total/NA	Solid	8082A	1024184
460-319165-15 MS	2B-04-TS	Total/NA	Solid	8082A	1024184
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	8082A	1024184

Analysis Batch: 1024271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	8081B	1024180
460-319165-6	IA-04-CS-8	Total/NA	Solid	8081B	1024180
460-319165-9	2B-05-CS-4	Total/NA	Solid	8081B	1024180
460-319165-10	2B-05-CS-8	Total/NA	Solid	8081B	1024180
460-319165-11	DUP-02	Total/NA	Solid	8081B	1024180
460-319165-15	2B-04-TS	Total/NA	Solid	8081B	1024180
460-319165-16	2B-04-CS-4	Total/NA	Solid	8081B	1024180
460-319165-17	2B-04-CS-8	Total/NA	Solid	8081B	1024180
MB 460-1024180/1-A	Method Blank	Total/NA	Solid	8081B	1024180
460-319165-15 MS	2B-04-TS	Total/NA	Solid	8081B	1024180
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	8081B	1024180

Analysis Batch: 1024330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-5	IA-04-CS-4	Total/NA	Solid	8081B	1024180
LCS 460-1024180/2-A	Lab Control Sample	Total/NA	Solid	8081B	1024180
LCSD 460-1024180/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1024180

Analysis Batch: 1024358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-1024184/2-A	Lab Control Sample	Total/NA	Solid	8082A	1024184
LCSD 460-1024184/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1024184

Analysis Batch: 1024448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	NJ DEP EPH	
460-319165-5	IA-04-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319165-6	IA-04-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319165-9	2B-05-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319165-10	2B-05-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319165-11	DUP-02	Total/NA	Solid	NJ DEP EPH	
460-319165-15	2B-04-TS	Total/NA	Solid	NJ DEP EPH	
460-319165-16	2B-04-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319165-17	2B-04-CS-8	Total/NA	Solid	NJ DEP EPH	

Metals

Prep Batch: 1017796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	7470A	
MB 460-1017796/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1017796/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-319158-F-2-C MS	Matrix Spike	Total/NA	Water	7470A	
460-319158-F-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
460-319158-F-2-B DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 1017835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	7470A	1017796
MB 460-1017796/1-A	Method Blank	Total/NA	Water	7470A	1017796
LCS 460-1017796/2-A	Lab Control Sample	Total/NA	Water	7470A	1017796
460-319158-F-2-C MS	Matrix Spike	Total/NA	Water	7470A	1017796
460-319158-F-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	1017796
460-319158-F-2-B DU	Duplicate	Total/NA	Water	7470A	1017796

Prep Batch: 1017972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	3010A	
MB 460-1017972/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-1017972/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-319183-E-6-C MS	Matrix Spike	Total/NA	Water	3010A	
460-319183-E-6-B DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 1017999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	6020B	1017972
MB 460-1017972/1-A	Method Blank	Total/NA	Water	6020B	1017972
LCS 460-1017972/2-A	Lab Control Sample	Total/NA	Water	6020B	1017972
460-319183-E-6-C MS	Matrix Spike	Total/NA	Water	6020B	1017972
460-319183-E-6-B DU	Duplicate	Total/NA	Water	6020B	1017972

Prep Batch: 1018161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	7471B	
460-319165-3	IA-01-CS	Total/NA	Solid	7471B	
460-319165-7	2B-07-CS-4	Total/NA	Solid	7471B	
460-319165-8	2B-07-CS-8	Total/NA	Solid	7471B	
460-319165-12	2B-03-TS	Total/NA	Solid	7471B	
460-319165-13	2B-03-CS-4	Total/NA	Solid	7471B	
460-319165-14	2B-03-CS-8	Total/NA	Solid	7471B	
MB 460-1018161/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1018161/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319175-E-5-K MS	Matrix Spike	Total/NA	Solid	7471B	
460-319175-E-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-319175-A-5-D DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 1018211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	7471B	1018161
460-319165-3	IA-01-CS	Total/NA	Solid	7471B	1018161

Metals (Continued)

Analysis Batch: 1018211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-7	2B-07-CS-4	Total/NA	Solid	7471B	1018161
460-319165-8	2B-07-CS-8	Total/NA	Solid	7471B	1018161
460-319165-12	2B-03-TS	Total/NA	Solid	7471B	1018161
460-319165-13	2B-03-CS-4	Total/NA	Solid	7471B	1018161
460-319165-14	2B-03-CS-8	Total/NA	Solid	7471B	1018161
MB 460-1018161/1-A	Method Blank	Total/NA	Solid	7471B	1018161
LCSSRM 460-1018161/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1018161
460-319175-E-5-K MS	Matrix Spike	Total/NA	Solid	7471B	1018161
460-319175-E-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	1018161
460-319175-A-5-D DU	Duplicate	Total/NA	Solid	7471B	1018161

Prep Batch: 1018340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	3050B	
460-319165-3	IA-01-CS	Total/NA	Solid	3050B	
460-319165-7	2B-07-CS-4	Total/NA	Solid	3050B	
460-319165-8	2B-07-CS-8	Total/NA	Solid	3050B	
460-319165-12	2B-03-TS	Total/NA	Solid	3050B	
460-319165-13	2B-03-CS-4	Total/NA	Solid	3050B	
460-319165-14	2B-03-CS-8	Total/NA	Solid	3050B	
MB 460-1018340/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1018340/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319175-E-5-S MS	Matrix Spike	Total/NA	Solid	3050B	
460-319175-E-5-T MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	
460-319175-E-5-R DU	Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 1018426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	6020B	1018340
460-319165-3	IA-01-CS	Total/NA	Solid	6020B	1018340
460-319165-7	2B-07-CS-4	Total/NA	Solid	6020B	1018340
460-319165-8	2B-07-CS-8	Total/NA	Solid	6020B	1018340
460-319165-12	2B-03-TS	Total/NA	Solid	6020B	1018340
460-319165-13	2B-03-CS-4	Total/NA	Solid	6020B	1018340
460-319165-14	2B-03-CS-8	Total/NA	Solid	6020B	1018340
MB 460-1018340/1-A	Method Blank	Total/NA	Solid	6020B	1018340
LCSSRM 460-1018340/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1018340
460-319175-E-5-S MS	Matrix Spike	Total/NA	Solid	6020B	1018340
460-319175-E-5-T MSD	Matrix Spike Duplicate	Total/NA	Solid	6020B	1018340
460-319175-E-5-R DU	Duplicate	Total/NA	Solid	6020B	1018340

Prep Batch: 1024098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	7471B	
460-319165-5	IA-04-CS-4	Total/NA	Solid	7471B	
460-319165-6	IA-04-CS-8	Total/NA	Solid	7471B	
460-319165-9	2B-05-CS-4	Total/NA	Solid	7471B	
460-319165-10	2B-05-CS-8	Total/NA	Solid	7471B	
460-319165-11	DUP-02	Total/NA	Solid	7471B	
460-319165-15	2B-04-TS	Total/NA	Solid	7471B	
460-319165-16	2B-04-CS-4	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 1024098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-17	2B-04-CS-8	Total/NA	Solid	7471B	
MB 460-1024098/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1024098/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	7471B	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	7471B	
460-319165-15 DU	2B-04-TS	Total/NA	Solid	7471B	

Prep Batch: 1024134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	3050B	
460-319165-5	IA-04-CS-4	Total/NA	Solid	3050B	
460-319165-6	IA-04-CS-8	Total/NA	Solid	3050B	
460-319165-9	2B-05-CS-4	Total/NA	Solid	3050B	
460-319165-10	2B-05-CS-8	Total/NA	Solid	3050B	
460-319165-11	DUP-02	Total/NA	Solid	3050B	
460-319165-15	2B-04-TS	Total/NA	Solid	3050B	
460-319165-16	2B-04-CS-4	Total/NA	Solid	3050B	
460-319165-17	2B-04-CS-8	Total/NA	Solid	3050B	
MB 460-1024134/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1024134/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	3050B	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	3050B	
460-319165-15 DU	2B-04-TS	Total/NA	Solid	3050B	

Analysis Batch: 1024137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	7471B	1024098
460-319165-5	IA-04-CS-4	Total/NA	Solid	7471B	1024098
460-319165-6	IA-04-CS-8	Total/NA	Solid	7471B	1024098
460-319165-9	2B-05-CS-4	Total/NA	Solid	7471B	1024098
460-319165-10	2B-05-CS-8	Total/NA	Solid	7471B	1024098
460-319165-11	DUP-02	Total/NA	Solid	7471B	1024098
460-319165-15	2B-04-TS	Total/NA	Solid	7471B	1024098
460-319165-16	2B-04-CS-4	Total/NA	Solid	7471B	1024098
460-319165-17	2B-04-CS-8	Total/NA	Solid	7471B	1024098
MB 460-1024098/1-A	Method Blank	Total/NA	Solid	7471B	1024098
LCSSRM 460-1024098/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1024098
460-319165-15 MS	2B-04-TS	Total/NA	Solid	7471B	1024098
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	7471B	1024098
460-319165-15 DU	2B-04-TS	Total/NA	Solid	7471B	1024098

Analysis Batch: 1024283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	6020B	1024134
460-319165-5	IA-04-CS-4	Total/NA	Solid	6020B	1024134
460-319165-6	IA-04-CS-8	Total/NA	Solid	6020B	1024134
460-319165-9	2B-05-CS-4	Total/NA	Solid	6020B	1024134
460-319165-10	2B-05-CS-8	Total/NA	Solid	6020B	1024134
460-319165-11	DUP-02	Total/NA	Solid	6020B	1024134
460-319165-15	2B-04-TS	Total/NA	Solid	6020B	1024134
460-319165-16	2B-04-CS-4	Total/NA	Solid	6020B	1024134

Metals (Continued)

Analysis Batch: 1024283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-17	2B-04-CS-8	Total/NA	Solid	6020B	1024134
MB 460-1024134/1-A	Method Blank	Total/NA	Solid	6020B	1024134
LCSSRM 460-1024134/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1024134
460-319165-15 MS	2B-04-TS	Total/NA	Solid	6020B	1024134
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	6020B	1024134
460-319165-15 DU	2B-04-TS	Total/NA	Solid	6020B	1024134

Analysis Batch: 1025482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-17	2B-04-CS-8	Total/NA	Solid	6020B	1024134

General Chemistry

Analysis Batch: 1017653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	Moisture	
460-319165-3	IA-01-CS	Total/NA	Solid	Moisture	
460-319165-4	IA-04-TS	Total/NA	Solid	Moisture	
460-319165-5	IA-04-CS-4	Total/NA	Solid	Moisture	
460-319165-6	IA-04-CS-8	Total/NA	Solid	Moisture	
460-319165-7	2B-07-CS-4	Total/NA	Solid	Moisture	
460-319165-8	2B-07-CS-8	Total/NA	Solid	Moisture	
460-319165-9	2B-05-CS-4	Total/NA	Solid	Moisture	
460-319165-10	2B-05-CS-8	Total/NA	Solid	Moisture	
460-319165-11	DUP-02	Total/NA	Solid	Moisture	
460-319165-12	2B-03-TS	Total/NA	Solid	Moisture	
460-319165-13	2B-03-CS-4	Total/NA	Solid	Moisture	
460-319165-14	2B-03-CS-8	Total/NA	Solid	Moisture	
460-319165-15	2B-04-TS	Total/NA	Solid	Moisture	
460-319165-16	2B-04-CS-4	Total/NA	Solid	Moisture	
460-319165-17	2B-04-CS-8	Total/NA	Solid	Moisture	
460-319121-D-4 MSS	Matrix Spike	Total/NA	Solid	Moisture	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	Moisture	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	Moisture	
460-319164-A-1 DU	Duplicate	Total/NA	Solid	Moisture	
460-319164-A-2 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 1018026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	9012B	
MB 460-1018026/13-A	Method Blank	Total/NA	Water	9012B	
LCS 460-1018026/14-A	Lab Control Sample	Total/NA	Water	9012B	
460-318827-I-1-B MS	Matrix Spike	Total/NA	Water	9012B	
460-318827-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Analysis Batch: 1018045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-1	FB_20250122	Total/NA	Water	9012B	1018026
MB 460-1018026/13-A	Method Blank	Total/NA	Water	9012B	1018026
LCS 460-1018026/14-A	Lab Control Sample	Total/NA	Water	9012B	1018026
460-318827-I-1-B MS	Matrix Spike	Total/NA	Water	9012B	1018026

General Chemistry (Continued)

Analysis Batch: 1018045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-318827-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	1018026

Prep Batch: 1018379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	9012B	
460-319165-3	IA-01-CS	Total/NA	Solid	9012B	
460-319165-7	2B-07-CS-4	Total/NA	Solid	9012B	
460-319165-8	2B-07-CS-8	Total/NA	Solid	9012B	
460-319165-12	2B-03-TS	Total/NA	Solid	9012B	
460-319165-13	2B-03-CS-4	Total/NA	Solid	9012B	
460-319165-14	2B-03-CS-8	Total/NA	Solid	9012B	
MB 460-1018379/13-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1018379/14-A	Lab Control Sample	Total/NA	Solid	9012B	
460-319127-C-12-H MS	Matrix Spike	Total/NA	Solid	9012B	
460-319127-C-12-I MSD	Matrix Spike Duplicate	Total/NA	Solid	9012B	

Analysis Batch: 1018404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-2	IA-01-TS	Total/NA	Solid	9012B	1018379
460-319165-3	IA-01-CS	Total/NA	Solid	9012B	1018379
460-319165-7	2B-07-CS-4	Total/NA	Solid	9012B	1018379
460-319165-8	2B-07-CS-8	Total/NA	Solid	9012B	1018379
460-319165-12	2B-03-TS	Total/NA	Solid	9012B	1018379
460-319165-13	2B-03-CS-4	Total/NA	Solid	9012B	1018379
460-319165-14	2B-03-CS-8	Total/NA	Solid	9012B	1018379
MB 460-1018379/13-A	Method Blank	Total/NA	Solid	9012B	1018379
LCSSRM 460-1018379/14-A	Lab Control Sample	Total/NA	Solid	9012B	1018379
460-319127-C-12-H MS	Matrix Spike	Total/NA	Solid	9012B	1018379
460-319127-C-12-I MSD	Matrix Spike Duplicate	Total/NA	Solid	9012B	1018379

Prep Batch: 1024429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	9012B	
460-319165-5	IA-04-CS-4	Total/NA	Solid	9012B	
460-319165-6	IA-04-CS-8	Total/NA	Solid	9012B	
460-319165-9	2B-05-CS-4	Total/NA	Solid	9012B	
460-319165-10	2B-05-CS-8	Total/NA	Solid	9012B	
460-319165-11	DUP-02	Total/NA	Solid	9012B	
460-319165-15	2B-04-TS	Total/NA	Solid	9012B	
460-319165-16	2B-04-CS-4	Total/NA	Solid	9012B	
460-319165-17	2B-04-CS-8	Total/NA	Solid	9012B	
MB 460-1024429/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1024429/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319165-15 MS	2B-04-TS	Total/NA	Solid	9012B	
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	9012B	

Prep Batch: 1024444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 460-1024444/12-A	Lab Control Sample	Total/NA	Solid	9012B	

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

General Chemistry

Analysis Batch: 1024494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319165-4	IA-04-TS	Total/NA	Solid	9012B	1024429
460-319165-5	IA-04-CS-4	Total/NA	Solid	9012B	1024429
460-319165-6	IA-04-CS-8	Total/NA	Solid	9012B	1024429
460-319165-9	2B-05-CS-4	Total/NA	Solid	9012B	1024429
460-319165-10	2B-05-CS-8	Total/NA	Solid	9012B	1024429
460-319165-11	DUP-02	Total/NA	Solid	9012B	1024429
460-319165-15	2B-04-TS	Total/NA	Solid	9012B	1024429
460-319165-16	2B-04-CS-4	Total/NA	Solid	9012B	1024429
460-319165-17	2B-04-CS-8	Total/NA	Solid	9012B	1024429
MB 460-1024429/1-A	Method Blank	Total/NA	Solid	9012B	1024429
LCSSRM 460-1024429/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1024429
MRL 460-1024444/12-A	Lab Control Sample	Total/NA	Solid	9012B	1024444
460-319165-15 MS	2B-04-TS	Total/NA	Solid	9012B	1024429
460-319165-15 MSD	2B-04-TS	Total/NA	Solid	9012B	1024429

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: FB_20250122

Date Collected: 01/22/25 12:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 11:12
Total/NA	Prep	3510C			1017771	ZEH	EET EDI	01/23/25 10:04
Total/NA	Analysis	8270E		1	1017857	MME	EET EDI	01/23/25 23:51
Total/NA	Prep	3510C			1017868	JMS	EET EDI	01/24/25 09:08
Total/NA	Analysis	8081B		1	1018166	FAM	EET EDI	01/27/25 08:38
Total/NA	Prep	3510C			1017866	JMS	EET EDI	01/24/25 09:12
Total/NA	Analysis	8082A		1	1018183	FAM	EET EDI	01/27/25 13:44
Total/NA	Prep	3510C			1017775	ZEH	EET EDI	01/23/25 10:08
Total/NA	Analysis	NJDEP EPH		1	1017751	JHP	EET EDI	01/23/25 20:10
Total/NA	Prep	3010A			1017972	JKF	EET EDI	01/24/25 10:30
Total/NA	Analysis	6020B		1	1017999	MDC	EET EDI	01/24/25 14:07
Total/NA	Prep	7470A			1017796	RBS	EET EDI	01/23/25 11:38
Total/NA	Analysis	7470A		1	1017835	RBS	EET EDI	01/23/25 15:04
Total/NA	Prep	9012B			1018026	VBG	EET EDI	01/24/25 17:52
Total/NA	Analysis	9012B		1	1018045	VBG	EET EDI	01/24/25 21:13

Client Sample ID: IA-01-TS

Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018082	OXG	EET EDI	01/25/25 12:20
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-01-TS

Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2

Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:44
Total/NA	Analysis	8260D		1	1018325	SZD	EET EDI	01/28/25 09:28
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/24/25 02:31
Total/NA	Prep	3546			1018101	ZXB	EET EDI	01/25/25 18:28
Total/NA	Analysis	8081B		1	1018172	FAM	EET EDI	01/27/25 07:37
Total/NA	Prep	3546			1018100	ZXB	EET EDI	01/25/25 18:25
Total/NA	Analysis	8082A		1	1018121	JHP	EET EDI	01/26/25 14:35
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018056	OXG	EET EDI	01/25/25 11:59
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018055	OXG	EET EDI	01/25/25 12:45
Total/NA	Prep	3050B			1018340	FBT	EET EDI	01/28/25 06:02
Total/NA	Analysis	6020B		1	1018426	JKF	EET EDI	01/28/25 14:41
Total/NA	Prep	7471B			1018161	TJS	EET EDI	01/27/25 01:13
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 05:32

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: IA-01-TS
Date Collected: 01/22/25 08:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-2
Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:24

Client Sample ID: IA-01-CS
Date Collected: 01/22/25 08:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018082	OXG	EET EDI	01/25/25 12:20
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-01-CS
Date Collected: 01/22/25 08:45
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-3
Matrix: Solid
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:45
Total/NA	Analysis	8260D		1	1018325	SZD	EET EDI	01/28/25 09:53
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/24/25 01:52
Total/NA	Prep	3546			1018101	ZXB	EET EDI	01/25/25 18:28
Total/NA	Analysis	8081B		1	1018172	FAM	EET EDI	01/27/25 07:53
Total/NA	Prep	3546			1018100	ZXB	EET EDI	01/25/25 18:25
Total/NA	Analysis	8082A		1	1018121	JHP	EET EDI	01/26/25 14:51
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018056	OXG	EET EDI	01/25/25 12:14
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018055	OXG	EET EDI	01/25/25 13:01
Total/NA	Prep	3050B			1018340	FBT	EET EDI	01/28/25 06:02
Total/NA	Analysis	6020B		1	1018426	JKF	EET EDI	01/28/25 14:43
Total/NA	Prep	7471B			1018161	TJS	EET EDI	01/27/25 01:13
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 05:34
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:25

Client Sample ID: IA-04-TS
Date Collected: 01/22/25 09:10
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-04-TS

Lab Sample ID: 460-319165-4

Date Collected: 01/22/25 09:10

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:47
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 16:51
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 22:11
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 21:31
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 21:24
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/05/25 22:12
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/05/25 22:12
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 18:01
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:51
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:20

Client Sample ID: IA-04-CS-4

Lab Sample ID: 460-319165-5

Date Collected: 01/22/25 09:15

Matrix: Solid

Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-04-CS-4

Lab Sample ID: 460-319165-5

Date Collected: 01/22/25 09:15

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:49
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 17:14
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 17:04
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 06:32
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 21:41
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/05/25 22:27
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/05/25 22:27

Client Sample ID: IA-04-CS-4

Lab Sample ID: 460-319165-5
Date Collected: 01/22/25 09:15
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 18:04
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:52
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:21

Client Sample ID: IA-04-CS-8

Lab Sample ID: 460-319165-6
Date Collected: 01/22/25 09:20
Matrix: Solid
Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: IA-04-CS-8

Lab Sample ID: 460-319165-6
Date Collected: 01/22/25 09:20
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:50
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 17:37
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 17:23
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 21:56
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 21:58
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/05/25 22:43
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/05/25 22:43
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 18:07
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:54
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:22

Client Sample ID: 2B-07-CS-4

Lab Sample ID: 460-319165-7
Date Collected: 01/22/25 11:10
Matrix: Solid
Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018082	OXG	EET EDI	01/25/25 12:20

Client Sample ID: 2B-07-CS-4

Lab Sample ID: 460-319165-7

Date Collected: 01/22/25 11:10

Matrix: Solid

Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: 2B-07-CS-4

Lab Sample ID: 460-319165-7

Date Collected: 01/22/25 11:10

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:52
Total/NA	Analysis	8260D		1	1018325	SZD	EET EDI	01/28/25 10:18
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/23/25 22:02
Total/NA	Prep	3546			1018101	ZXB	EET EDI	01/25/25 18:28
Total/NA	Analysis	8081B		1	1018172	FAM	EET EDI	01/27/25 08:08
Total/NA	Prep	3546			1018100	ZXB	EET EDI	01/25/25 18:25
Total/NA	Analysis	8082A		1	1018121	JHP	EET EDI	01/26/25 15:08
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018056	OXG	EET EDI	01/25/25 12:30
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018055	OXG	EET EDI	01/25/25 13:16
Total/NA	Prep	3050B			1018340	FBT	EET EDI	01/28/25 06:02
Total/NA	Analysis	6020B		1	1018426	JKF	EET EDI	01/28/25 14:51
Total/NA	Prep	7471B			1018161	TJS	EET EDI	01/27/25 01:13
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 05:36
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:26

Client Sample ID: 2B-07-CS-8

Lab Sample ID: 460-319165-8

Date Collected: 01/22/25 11:20

Matrix: Solid

Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018082	OXG	EET EDI	01/25/25 12:20
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: 2B-07-CS-8

Lab Sample ID: 460-319165-8

Date Collected: 01/22/25 11:20

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:53
Total/NA	Analysis	8260D		1	1018325	SZD	EET EDI	01/28/25 10:43
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/23/25 22:22
Total/NA	Prep	3546			1018101	ZXB	EET EDI	01/25/25 18:28
Total/NA	Analysis	8081B		1	1018172	FAM	EET EDI	01/27/25 08:24

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-07-CS-8

Lab Sample ID: 460-319165-8

Date Collected: 01/22/25 11:20
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1018100	ZXB	EET EDI	01/25/25 18:25
Total/NA	Analysis	8082A		1	1018121	JHP	EET EDI	01/26/25 15:25
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018056	OXG	EET EDI	01/25/25 12:45
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018055	OXG	EET EDI	01/25/25 13:32
Total/NA	Prep	3050B			1018340	FBT	EET EDI	01/28/25 06:02
Total/NA	Analysis	6020B		1	1018426	JKF	EET EDI	01/28/25 14:54
Total/NA	Prep	7471B			1018161	TJS	EET EDI	01/27/25 01:13
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 05:38
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:27

Client Sample ID: 2B-05-CS-4

Lab Sample ID: 460-319165-9

Date Collected: 01/22/25 12:45
Matrix: Solid
Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: 2B-05-CS-4

Lab Sample ID: 460-319165-9

Date Collected: 01/22/25 12:45
Matrix: Solid
Date Received: 01/22/25 16:45
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:55
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 18:00
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 17:42
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 22:08
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 22:14
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/05/25 22:59
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/05/25 22:59
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 18:09
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:56
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:23

Client Sample ID: 2B-05-CS-8

Lab Sample ID: 460-319165-10

Date Collected: 01/22/25 12:50

Matrix: Solid

Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: 2B-05-CS-8

Lab Sample ID: 460-319165-10

Date Collected: 01/22/25 12:50

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:57
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 18:23
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 15:08
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 22:20
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 22:31
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/05/25 23:14
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/05/25 23:14
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 18:12
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:58
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:24

Client Sample ID: DUP-02

Lab Sample ID: 460-319165-11

Date Collected: 01/22/25 12:02

Matrix: Solid

Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 20:28

Client Sample ID: DUP-02

Lab Sample ID: 460-319165-11

Date Collected: 01/22/25 12:02

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 05:58
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 18:46
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 15:28

Client Sample ID: DUP-02

Lab Sample ID: 460-319165-11

Date Collected: 01/22/25 12:02

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 22:32
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 22:48
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/05/25 23:30
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/05/25 23:30
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 18:15
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:59
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:25

Client Sample ID: 2B-03-TS

Lab Sample ID: 460-319165-12

Date Collected: 01/22/25 13:40

Matrix: Solid

Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018082	OXG	EET EDI	01/25/25 12:20
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: 2B-03-TS

Lab Sample ID: 460-319165-12

Date Collected: 01/22/25 13:40

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 06:00
Total/NA	Analysis	8260D		1	1018325	SZD	EET EDI	01/28/25 11:08
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/24/25 02:11
Total/NA	Prep	3546			1018101	ZXB	EET EDI	01/25/25 18:28
Total/NA	Analysis	8081B		1	1018172	FAM	EET EDI	01/27/25 08:56
Total/NA	Prep	3546			1018100	ZXB	EET EDI	01/25/25 18:25
Total/NA	Analysis	8082A		1	1018121	JHP	EET EDI	01/26/25 15:41
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018056	OXG	EET EDI	01/25/25 13:01
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018055	OXG	EET EDI	01/25/25 13:47
Total/NA	Prep	3050B			1018340	FBT	EET EDI	01/28/25 06:02
Total/NA	Analysis	6020B		1	1018426	JKF	EET EDI	01/28/25 14:56
Total/NA	Prep	7471B			1018161	TJS	EET EDI	01/27/25 01:13
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 05:39

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-03-TS
Date Collected: 01/22/25 13:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-12
Matrix: Solid
Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:31

Client Sample ID: 2B-03-CS-4
Date Collected: 01/22/25 13:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018082	OXG	EET EDI	01/25/25 12:20
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 20:28

Client Sample ID: 2B-03-CS-4
Date Collected: 01/22/25 13:50
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-13
Matrix: Solid
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 06:02
Total/NA	Analysis	8260D		1	1018325	SZD	EET EDI	01/28/25 11:33
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/23/25 22:41
Total/NA	Prep	3546			1018101	ZXB	EET EDI	01/25/25 18:28
Total/NA	Analysis	8081B		1	1018172	FAM	EET EDI	01/27/25 09:12
Total/NA	Prep	3546			1018100	ZXB	EET EDI	01/25/25 18:25
Total/NA	Analysis	8082A		1	1018121	JHP	EET EDI	01/26/25 15:58
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018056	OXG	EET EDI	01/25/25 13:16
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018055	OXG	EET EDI	01/25/25 14:03
Total/NA	Prep	3050B			1018340	FBT	EET EDI	01/28/25 06:02
Total/NA	Analysis	6020B		1	1018426	JKF	EET EDI	01/28/25 14:59
Total/NA	Prep	7471B			1018161	TJS	EET EDI	01/27/25 01:13
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 05:45
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:32

Client Sample ID: 2B-03-CS-8
Date Collected: 01/22/25 14:00
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018082	OXG	EET EDI	01/25/25 12:20
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 19:13

Client Sample ID: 2B-03-CS-8

Lab Sample ID: 460-319165-14

Date Collected: 01/22/25 14:00

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 06:03
Total/NA	Analysis	8260D		1	1018325	SZD	EET EDI	01/28/25 11:58
Total/NA	Prep	3546			1017758	SXS	EET EDI	01/23/25 09:13
Total/NA	Analysis	8270E		1	1017845	MME	EET EDI	01/23/25 23:00
Total/NA	Prep	3546			1018101	ZXB	EET EDI	01/25/25 18:28
Total/NA	Analysis	8081B		1	1018172	FAM	EET EDI	01/27/25 09:27
Total/NA	Prep	3546			1018100	ZXB	EET EDI	01/25/25 18:25
Total/NA	Analysis	8082A		1	1018121	JHP	EET EDI	01/26/25 16:15
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018056	OXG	EET EDI	01/25/25 13:32
Total/NA	Prep	3546			1017967	FHW	EET EDI	01/24/25 17:31
Total/NA	Analysis	NJDEP EPH		1	1018055	OXG	EET EDI	01/25/25 14:18
Total/NA	Prep	3050B			1018340	FBT	EET EDI	01/28/25 06:02
Total/NA	Analysis	6020B		1	1018426	JKF	EET EDI	01/28/25 15:01
Total/NA	Prep	7471B			1018161	TJS	EET EDI	01/27/25 01:13
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 05:47
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:33

Client Sample ID: 2B-04-TS

Lab Sample ID: 460-319165-15

Date Collected: 01/22/25 14:20

Matrix: Solid

Date Received: 01/22/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 20:28

Client Sample ID: 2B-04-TS

Lab Sample ID: 460-319165-15

Date Collected: 01/22/25 14:20

Matrix: Solid

Date Received: 01/22/25 16:45

Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 06:05
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 19:11
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 20:35
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 21:18
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 21:07
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/05/25 21:56
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/05/25 21:56

Client Sample ID: 2B-04-TS
Date Collected: 01/22/25 14:20
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-15
Matrix: Solid
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 17:37
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 06:29
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:14

Client Sample ID: 2B-04-CS-4
Date Collected: 01/22/25 14:30
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 20:28

Client Sample ID: 2B-04-CS-4
Date Collected: 01/22/25 14:30
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-16
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 06:10
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 19:34
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 16:25
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 22:45
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 23:05
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/05/25 23:46
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/05/25 23:46
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 18:17
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 07:01
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:25

Client Sample ID: 2B-04-CS-8
Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024448	JHP	EET EDI	03/06/25 11:08

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Client Sample ID: 2B-04-CS-8
Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1017653	CJC	EET EDI	01/22/25 20:28

Client Sample ID: 2B-04-CS-8
Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-17
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1017714	AAT	EET EDI	01/23/25 06:11
Total/NA	Analysis	8260D		1	1023968	MZS	EET EDI	03/04/25 19:57
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 15:47
Total/NA	Prep	3546			1024180	FHW	EET EDI	03/05/25 10:29
Total/NA	Analysis	8081B		1	1024271	FAM	EET EDI	03/05/25 22:57
Total/NA	Prep	3546			1024184	FHW	EET EDI	03/05/25 10:34
Total/NA	Analysis	8082A		1	1024260	SAK	EET EDI	03/05/25 23:21
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024140	JHP	EET EDI	03/06/25 00:01
Total/NA	Prep	3546			1024177	FHW	EET EDI	03/05/25 10:24
Total/NA	Analysis	NJDEP EPH		1	1024141	JHP	EET EDI	03/06/25 00:01
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1025482	JKF	EET EDI	03/12/25 11:31
Total/NA	Prep	3050B			1024134	FBT	EET EDI	03/05/25 07:28
Total/NA	Analysis	6020B		1	1024283	CDC	EET EDI	03/05/25 18:31
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 07:03
Total/NA	Prep	9012B			1024429	MMC	EET EDI	03/06/25 10:06
Total/NA	Analysis	9012B		1	1024494	AXP	EET EDI	03/06/25 13:26

Client Sample ID: TRIP BLANK
Date Collected: 01/22/25 14:40
Date Received: 01/22/25 16:45

Lab Sample ID: 460-319165-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1017719	SZD	EET EDI	01/23/25 10:50

Laboratory References:
EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319165-1
Project/Site: Manchester LF JR0312

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-03-26
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	03-31-25
Pennsylvania	NELAP	68-00522	02-27-26
Rhode Island	State	LAO00376	12-23-25
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
NJ DEP EPH	New Jersey - Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
NJDEP EPH	New Jersey Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

NJDEP = New Jersey Department of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-319165-1	FB_20250122	Water	01/22/25 12:00	01/22/25 16:45
460-319165-2	IA-01-TS	Solid	01/22/25 08:40	01/22/25 16:45
460-319165-3	IA-01-CS	Solid	01/22/25 08:45	01/22/25 16:45
460-319165-4	IA-04-TS	Solid	01/22/25 09:10	01/22/25 16:45
460-319165-5	IA-04-CS-4	Solid	01/22/25 09:15	01/22/25 16:45
460-319165-6	IA-04-CS-8	Solid	01/22/25 09:20	01/22/25 16:45
460-319165-7	2B-07-CS-4	Solid	01/22/25 11:10	01/22/25 16:45
460-319165-8	2B-07-CS-8	Solid	01/22/25 11:20	01/22/25 16:45
460-319165-9	2B-05-CS-4	Solid	01/22/25 12:45	01/22/25 16:45
460-319165-10	2B-05-CS-8	Solid	01/22/25 12:50	01/22/25 16:45
460-319165-11	DUP-02	Solid	01/22/25 12:02	01/22/25 16:45
460-319165-12	2B-03-TS	Solid	01/22/25 13:40	01/22/25 16:45
460-319165-13	2B-03-CS-4	Solid	01/22/25 13:50	01/22/25 16:45
460-319165-14	2B-03-CS-8	Solid	01/22/25 14:00	01/22/25 16:45
460-319165-15	2B-04-TS	Solid	01/22/25 14:20	01/22/25 16:45
460-319165-16	2B-04-CS-4	Solid	01/22/25 14:30	01/22/25 16:45
460-319165-17	2B-04-CS-8	Solid	01/22/25 14:40	01/22/25 16:45
460-319165-18	TRIP BLANK	Water	01/22/25 14:40	01/22/25 16:45

Chain of Custody Rec

460-319165 Chain of Custody

Environment Testing

TAL-8210

Address 777 New Durham Rd
Edison, NJ 08817
732-549-3900

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Mike Nolden	Site Contact: Ed Horai	Date: 1/22/25	COC No
Company Name: Geosyntec Consultants	Tel/Email: MNolden@geosyntec.com	Lab Contact:	Carrier:	1 of 2 COCs
Address: 1750 American Blvd suite 210	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS			Sampler: EH
City State/Zip: Pennington, NJ 08534	TAT if different from Below: 5			For Lab Use Only:
Phone: 201-438-5412	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Walk-in Client.
Fax				Lab Sampling
Project Name: Manchester LF				Job / SDG No: 319165
Site: Manchester, NJ				
PO #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260D TCL VOA +10	NJ EPH Frac, 8081B	8081A, 6020B w/Hg	7471B, 9012B, 8270E	8260D SPLP TCL VOA	8270E SPLP TCL SVOCs	8081B SPLP, 6020B SPLP	7470A SPLP, 9012B SPLP	8260D TCL VOA +10	NJ EPH No Frac	8270E TCL BNA +20	8081B 8082A	6020B TAL Metals (w/Hg)	7470A, 9012B total	Sample Specific Notes
FB-20250122	1/22/25	1200	G	W	16											X	X	X	X	X	X	
1A-01-TS	1/22/25	0840	G	S	9			X	X	X	X	H	H	H	H							1
1A-01-CS	1/22/25	0845	G	S	9			X	X	X	X	H	H	H	H							2
1A-04-TS	1/22/25	0910	G	S	9			H	H	H	H	H	H	H	H							3
1A-04-CS-4	1/22/25	0915	G	S	9			H	H	H	H	H	H	H	H							4
1A-04-CS-8	1/22/25	0920	G	S	9			H	H	H	H	H	H	H	H							5
2B-07-CS-4	1/22/25	1110	G	S	9			X	X	X	X	H	H	H	H							6
2B-07-CS-8	1/22/25	1120	G	S	9			X	X	X	X	H	H	H	H							7
2B-05-CS-4	1/22/25	1245	G	S	9			H	H	H	H	H	H	H	H							8
2B-05-CS-8	1/22/25	1250	G	S	9			H	H	H	H	H	H	H	H							9
DUP-02	1/22/25	1202	G	S	9			H	H	H	H	H	H	H	H							10
2B-05-TS	1/22/25	1340	G	S	9			X	X	X	X	H	H	H	H							11

SHORT HOLD

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

								1	1	1	1	1	1	1	1	2	2	1	1	4	4/5	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ No ☐ Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments.

* Refer to Lab #46045604 for analyses

* Hold all SPLP - perform extraction as needed.

X = Run sample
H = Hold sample

2 coolers

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd	Corr'd	Therm ID No.

	Company	Date/Time		Company	Date/Time
Relinquished by: Ed Horai	Geosyntec	1/22/25 1530	Received by:	ECT	1/22/25 15:30
Relinquished by:	ECT	1/22/25 16:45	Received by:	EGG	1/22/25 1645
Relinquished by:	Company	Date/Time	Received in Laboratory by	Company	Date/Time

NJDEP 1R9 1.1 1/22/25

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4/1/2025

Chain of Custody Record 762493

eurofins | Environment Testing

Address 777 Main Street Ste
Ed, VT 05817
716 542-5410

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Mike Nowak	Site Contact: Ed Tom	Date: 1/22/25	COC No
Company Name: Geosyntec Consultants	Tel/Email: mnowak@geosyntec.com	Lab Contact:	Carrier:	2 of 2 COCs
Address: 11 Hawkins St Ste 210	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS; TAT if different from Below 5; ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Sampler: EH
City/State/Zip: Burlington, VT 05401				For Lab Use Only: Walk-in Client: Lab Sampling:
Phone: 401 408-5402				Job / SDG No.: 319165
Fax:				
Project Name: Main Street, Ed-				
Site: Ed, VT				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260D 1,1-DCA, 1,2-DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, MTBE, TCE, PCE, Vinyl chloride, 1,4-Dioxane, Naphthalene, 1,2,3-TCB, Total Xylenes, 1,2,4-TMB, 1,3,5-TMB, Isopropylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene, p-Isopropyltoluene, Methylene Chloride, Acetone, Carbon Disulfide, 2-Butanone, Vinyl acetate, 4-Methyl-2-pentanone, 2-Hexanone, Bromochloromethane, 2,2-Dichloropropane, 1,2-Dibromoethane, 1,3-Dichloropropane, 1,1,1,2-Tetrachloroethane, Bromobenzene, n-Butylbenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, Hexachlorobutadiene, 1,2,4-Trichlorobenzene, Naphthalene, 1,2,3-Trichlorobenzene, 1,4-Dioxane, Total Xylenes, 1,2,4-TMB, 1,3,5-TMB, Isopropylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene, p-Isopropyltoluene, Methylene Chloride, Acetone, Carbon Disulfide, 2-Butanone, Vinyl acetate, 4-Methyl-2-pentanone, 2-Hexanone, Bromochloromethane, 2,2-Dichloropropane, 1,2-Dibromoethane, 1,3-Dichloropropane, 1,1,1,2-Tetrachloroethane, Bromobenzene, n-Butylbenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, Hexachlorobutadiene, 1,2,4-Trichlorobenzene, Naphthalene, 1,2,3-Trichlorobenzene	Sample Specific Notes:
2B-05-CS-4	1/22/25	1330	G	S	9		X	X X X X H H H H	13
2B-05-CS-8	1/22/25	1405	G	S	9		X	X X X X H H H H	14
2B-04-TS	1/22/25	1420	G	S	27	Y	H	H H H H H H H H	MS/MSD 15
2B-04-CS-4	1/22/25	1430	G	S	9		H	H H H H H H H H	16
2B-04-CS-8	1/22/25	1440	G	S	9		H	H H H H H H H H	17

EH 1/22/25

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments:
P + T for #4 at 1 week to receive ice * Hold all SFL pitot EXT hold as needed X run sample H hold sample 2 coolers

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd	Corr'd	Therm ID No

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Ed Tom	Geosyntec	1/22/25 1530	[illegible]	EET	1/22/25 15:30
[illegible]	EET	1/22/25 1645	[illegible]	EET	1/22/25 1645
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

NOCS

4/1/2025

Job Number: 319165

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Number of Coolers: 2 IR Gun # 09

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.1 ℃	1.3 ℃	Cooler #4:	℃	℃	Cooler #7:	℃	℃
Cooler #2:	1.0 ℃	1.2 ℃	Cooler #5:	℃	℃	Cooler #8:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃	Cooler #9:	℃	℃

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2			<2					>12			

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: AM Date: 1/22/25

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 460-319165-1

Login Number: 319165
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Nolden
Geosyntec Consultants Inc
289 Great Road (Rte 2A)
Suite 202
Acton, Massachusetts 01720

Generated 4/1/2025 12:18:56 PM

JOB DESCRIPTION

Manchester LF

JOB NUMBER

460-319229-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
460-319229-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2025 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3°C and 1.3°C.

Receipt Exceptions
Per laboratory policy, the Trip Blank sample date/time was changed to reflect the latest sample date/time of the sampling event.

The following samples were activated for remaining total analysis for Metals, PCBs and out of analytical holding time for Volatiles, Semivolatiles, Pesticides, Cyanide, NJEPH and Mercury by the client on 2/28/25: 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11[MS]), 3-01-TS (460-319229-11[MSD]) and 3-01-CS (460-319229-12).

March 21st, 2025 - Remaining samples on hold cancelled by the client.

Method 8260D - Volatile Organic Compounds by GC/MS
Samples Trip Blank (460-319229-1), FB-20250123 (460-319229-2), 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for Volatile Organic Compounds by GC/MS. The samples were prepared on 1/24/2025 and analyzed on 1/27/2025, 1/29/2025 and 3/5/2025.

The continuing calibration verification (CCV) associated with batch 460-1018189 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane, Acrolein, Acrylonitrile, Chloromethane, Dichlorodifluoromethane, Methyl acetate and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1018189 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Internal standard (ISTD) response for 1,4-Dioxane-d8 for the following samples was outside of acceptance limits: 2B-06-TS (460-319229-3), 3-03-CS-4 (460-319229-9), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14). The corresponding target analyte 1,4-Dioxane was not detected. Re-analysis was not performed.

The continuing calibration verification (CCV) analyzed in batch 460-1018422 was outside the method criteria for the following analytes: 1,1,1-Trichloroethane and Carbon tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1018422 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and Chlorobromomethane (biased high) and 4-Methyl-2-pentanone (MIBK) (biased low). These analytes were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1024023 was outside the method criteria for the following

analyte(s): Bromomethane (biased high); Bromoform and Dichlorodifluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1024023 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane (biased low) and Bromomethane (biased high). These analytes were not detected in the associated samples; therefore, the data have been reported.

Internal standard (ISTD) response for 1,4-Dioxane-d8 for the following samples was outside of acceptance limits: DUP-03 (460-319229-7). The corresponding target analyte 1,4-Dioxane was not detected. Re-analysis was not performed.

Surrogate recovery for the following sample was outside the upper control limit: 3-01-TS (460-319229-11). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Response of Internal standard (ISTD), 1,4-Dioxane-d8 for the following samples was outside acceptance criteria: 3-01-TS (460-319229-11[MS]) and 3-01-TS (460-319229-11[MSD]). The results have been reported and qualified.

Method 8270E - Semivolatile Organic Compounds (GC/MS)
Samples FB-20250123 (460-319229-2), 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared on 1/25/2025, 1/27/2025 and 3/4/2025 and analyzed on 1/25/2025, 1/28/2025 and 3/4/2025.

The continuing calibration verification (CCV) analyzed in batch 460-1018311 was outside the method criteria for the following analyte(s): < 4,6-Dinitro-2-methylphenol and Benzaldehyde>. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-1018240 and analytical batch 460-1018311 recovered outside control limits for the following analytes: < Hexachlorocyclopentadiene>. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1023993 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-1023975 and analytical batch 460-1023993 recovered outside control limits for the following analytes: Atrazine and Hexachlorocyclopentadiene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons
Samples 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for New Jersey - Extractable Petroleum Hydrocarbons. The samples were analyzed on 1/27/2025, 1/28/2025 and 3/7/2025.

Method NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons
Samples FB-20250123 (460-319229-2), 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for New Jersey Extractable Petroleum Hydrocarbons. The samples were prepared on 1/24/2025, 1/27/2025 and 3/6/2025 and analyzed on 1/25/2025, 1/28/2025 and 3/6/2025.

Method 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Samples FB-20250123 (460-319229-2), 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography. The samples were prepared on 1/24/2025, 1/25/2025 and 3/5/2025 and analyzed on 1/27/2025 and 3/6/2025.

Method 8081B - Organochlorine Pesticides (GC)
Samples FB-20250123 (460-319229-2), 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for Organochlorine Pesticides (GC). The samples were prepared on 1/24/2025, 1/25/2025 and 3/5/2025 and analyzed on 1/27/2025 and 3/6/2025.

The following samples were prepared outside of preparation holding time due to sample receipt : 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11[MS]), 3-01-TS (460-319229-11[MSD]) and 3-01-CS (460-319229-12).

Method 6020B - Metals (ICP/MS)
Samples FB-20250123 (460-319229-2), 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for Metals (ICP/MS). The samples were prepared and analyzed on 1/28/2025 and 3/5/2025.

The field blank FB-20250123 (460-319229-2) contained calcium above the method detection limit (MDL). The result was confirmed by the analysis of the undigested sample.

Method 7470A - Mercury (CVAA)
Sample FB-20250123 (460-319229-2) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 1/27/2025.

Method 7471B - Mercury (CVAA)
Samples 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 1/27/2025 and 3/7/2025.

Method 9012B - Cyanide, Total andor Amenable
Samples FB-20250123 (460-319229-2), 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for Cyanide, Total andor Amenable. The samples were prepared on 1/28/2025, 1/29/2025 and 3/7/2025 and analyzed on 1/28/2025, 1/29/2025 and 3/9/2025.

Method Moisture - Percent Moisture
Samples 2B-06-TS (460-319229-3), 2B-06-CS-4 (460-319229-4), 2B-06-CS-8 (460-319229-5), 3-02-TS (460-319229-6), DUP-03 (460-319229-7), 3-02-CS (460-319229-8), 3-03-CS-4 (460-319229-9), 3-03-CS-8 (460-319229-10), 3-01-TS (460-319229-11), 3-01-TS (460-319229-11MS), 3-01-TS (460-319229-11MSD), 3-01-CS (460-319229-12), 4-02-TS (460-319229-13) and 4-02-CS (460-319229-14) were analyzed for Percent Moisture. The samples were analyzed on 1/27/2025.

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: Trip Blank — Lab Sample ID: 460-319229-1

No Detections.

Client Sample ID: FB-20250123 — Lab Sample ID: 460-319229-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.51	J	1.0	0.32	ug/L	1		8260D	Total/NA
Calcium	62.9	J	500	53.6	ug/L	1		6020B	Total/NA

Client Sample ID: 2B-06-TS — Lab Sample ID: 460-319229-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.012	J	0.033	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.017	J	0.033	0.0086	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.014	J	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Di-n-butyl phthalate	0.024	J	0.33	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.019	J	0.33	0.012	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.015	J	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.020	J	0.33	0.0083	mg/Kg	1	☼	8270E	Total/NA
Total Aromatics	13		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	13		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	3.7		2.0	2.0	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	8.8		8.1	8.1	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	591		17.9	4.9	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.19	J	0.89	0.13	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.40	J	0.89	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	3.3		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	109		89.3	36.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.5	J	1.8	0.81	mg/Kg	1	☼	6020B	Total/NA
Copper	1.7	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	604		53.6	18.0	mg/Kg	1	☼	6020B	Total/NA
Lead	17.1		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	51.2	J	89.3	9.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.8		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.67	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	39.9	J	89.3	14.5	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.13	J	1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.8		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA
Zinc	4.4	J	7.1	2.7	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.026		0.016	0.0073	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2B-06-CS-4 — Lab Sample ID: 460-319229-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.00048	J	0.0012	0.00020	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00037	J	0.0012	0.00023	mg/Kg	1	☼	8260D	Total/NA
Aluminum	4920		18.8	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.71	J	0.94	0.097	mg/Kg	1	☼	6020B	Total/NA
Barium	4.6		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.5		1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.20	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	1.9		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	2160		56.3	18.9	mg/Kg	1	☼	6020B	Total/NA
Lead	2.0		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	53.1	J	93.8	9.6	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: 2B-06-CS-4 (Continued) — Lab Sample ID: 460-319229-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.3	J	3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	2.3		1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	80.2	J	93.8	15.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.8		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0083	J	0.015	0.0073	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2B-06-CS-8 — Lab Sample ID: 460-319229-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.015	J	0.33	0.012	mg/Kg	1	☼	8270E	Total/NA
Pentachlorophenol	0.13	J	0.27	0.068	mg/Kg	1	☼	8270E	Total/NA
Aluminum	2110		17.9	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.32	J	0.90	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	2.5		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.8		1.8	0.81	mg/Kg	1	☼	6020B	Total/NA
Copper	1.0	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	791		53.8	18.1	mg/Kg	1	☼	6020B	Total/NA
Lead	1.2		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	19.9	J	89.7	9.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.1	J	3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.94	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	58.7	J	89.7	14.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.5		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 3-02-TS — Lab Sample ID: 460-319229-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Aromatics	11		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	11		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	3.0	H	2.0	2.0	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	8.4	H	8.0	8.0	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	99.9		18.4	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.15	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	2.1		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	3.9		1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	180		55.3	18.6	mg/Kg	1	☼	6020B	Total/NA
Lead	6.5		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	9.5	J	92.2	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.3	J	3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Vanadium	1.0	J	1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Cyanide, Total	0.48	H	0.21	0.11	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: DUP-03 — Lab Sample ID: 460-319229-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Aromatics	3.5		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	3.5		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	3.5	H	2.0	2.0	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	62.9		17.9	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.093	J	0.90	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	1.4	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	2.7		1.8	0.33	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-03 (Continued)

Lab Sample ID: 460-319229-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	118		53.8	18.1	mg/Kg	1	☼	6020B	Total/NA
Lead	4.6		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	10.2	J	89.7	9.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.3	J	3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Vanadium	0.75	J	1.8	0.18	mg/Kg	1	☼	6020B	Total/NA
Cyanide, Total	0.40	H	0.22	0.12	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: 3-02-CS

Lab Sample ID: 460-319229-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	641		18.4	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.20	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	1.0	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.5	J	1.8	0.84	mg/Kg	1	☼	6020B	Total/NA
Copper	0.99	J	1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	542		55.2	18.6	mg/Kg	1	☼	6020B	Total/NA
Lead	0.94		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	23.5	J	92.0	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	6.9		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Potassium	28.8	J	92.0	14.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	1.3	J	1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 3-03-CS-4

Lab Sample ID: 460-319229-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1020		18.0	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.34	J	0.90	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	1.1	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.6		1.8	0.82	mg/Kg	1	☼	6020B	Total/NA
Copper	0.71	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	948		53.9	18.1	mg/Kg	1	☼	6020B	Total/NA
Lead	1.2		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	22.7	J	89.8	9.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	7.0		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Potassium	28.5	J	89.8	14.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.0		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 3-03-CS-8

Lab Sample ID: 460-319229-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.049		0.0059	0.0057	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1110		19.1	5.3	mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.5		0.96	0.099	mg/Kg	1	☼	6020B	Total/NA
Barium	5.1		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	7.6		1.9	0.87	mg/Kg	1	☼	6020B	Total/NA
Copper	1.4	J	1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	4150		57.4	19.3	mg/Kg	1	☼	6020B	Total/NA
Lead	1.3		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	25.5	J	95.6	9.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.5	J	3.8	0.39	mg/Kg	1	☼	6020B	Total/NA
Potassium	63.2	J	95.6	15.5	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.16	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 3-03-CS-8 (Continued) — Lab Sample ID: 460-319229-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	5.3		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 3-01-TS — Lab Sample ID: 460-319229-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.012	J H	0.33	0.012	mg/Kg	1	☼	8270E	Total/NA
Total Aromatics	18		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	18		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	2.6	H F1	2.0	2.0	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	15	H F1	8.0	8.0	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	281		20.1	5.5	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.22	J F1	1.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.20	J F1	1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	3.5	F1	2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Calcium	388	F1	101	41.0	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.0	J	2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Copper	1.6	J	2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	372	F1	60.4	20.3	mg/Kg	1	☼	6020B	Total/NA
Lead	8.0	F1	0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	75.5	J	101	10.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	11.5	F1	4.0	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.62	J	2.0	0.47	mg/Kg	1	☼	6020B	Total/NA
Potassium	41.0	J	101	16.3	mg/Kg	1	☼	6020B	Total/NA
Vanadium	1.4	J	2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	5.5	J	8.1	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.018	H	0.017	0.0078	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 3-01-CS — Lab Sample ID: 460-319229-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1710		17.9	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.57	J	0.90	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	1.9		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.7		1.8	0.81	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.13	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	1.7	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	1590		53.8	18.1	mg/Kg	1	☼	6020B	Total/NA
Lead	2.1		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	48.1	J	89.7	9.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.2		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.64	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	38.2	J	89.7	14.5	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.11	J	1.1	0.11	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.3		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA
Zinc	2.8	J	7.2	2.7	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0087	J H	0.016	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 4-02-TS — Lab Sample ID: 460-319229-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.022		0.0077	0.0073	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.00028	J	0.0013	0.00026	mg/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 4-02-TS (Continued)

Lab Sample ID: 460-319229-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.0012	J	0.0013	0.00022	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.0010	J	0.0013	0.00025	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00043	J	0.0013	0.00030	mg/Kg	1	☼	8260D	Total/NA
Benzaldehyde	0.070	J	0.34	0.056	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.011	J	0.034	0.0088	mg/Kg	1	☼	8270E	Total/NA
Aluminum	376		18.7	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.22	J	0.94	0.096	mg/Kg	1	☼	6020B	Total/NA
Barium	2.1		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	114		93.5	38.1	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.0	J	1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Copper	1.1	J	1.9	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	333		56.1	18.9	mg/Kg	1	☼	6020B	Total/NA
Lead	8.1		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	27.3	J	93.5	9.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	6.7		3.7	0.38	mg/Kg	1	☼	6020B	Total/NA
Potassium	29.6	J	93.5	15.1	mg/Kg	1	☼	6020B	Total/NA
Vanadium	1.7	J	1.9	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 4-02-CS

Lab Sample ID: 460-319229-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.00036	J	0.0011	0.00018	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00037	J	0.0011	0.00021	mg/Kg	1	☼	8260D	Total/NA
Di-n-butyl phthalate	0.052	J	0.33	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	1500		17.8	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.32	J	0.89	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	1.9		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.8		1.8	0.81	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.13	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	1.2	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	1050		53.3	17.9	mg/Kg	1	☼	6020B	Total/NA
Lead	2.0		0.53	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	30.6	J	88.9	9.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	45.5		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.54	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	28.2	J	88.9	14.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.6		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0077	J	0.016	0.0075	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: Trip Blank

Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/27/25 09:41	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/27/25 09:41	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/27/25 09:41	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/27/25 09:41	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/27/25 09:41	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/27/25 09:41	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/27/25 09:41	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/27/25 09:41	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/27/25 09:41	1
1,4-Dioxane	28	U	50	28	ug/L			01/27/25 09:41	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/27/25 09:41	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/27/25 09:41	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/27/25 09:41	1
Acetone	4.4	U	5.0	4.4	ug/L			01/27/25 09:41	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/27/25 09:41	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/27/25 09:41	1
Benzene	0.20	U	1.0	0.20	ug/L			01/27/25 09:41	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/27/25 09:41	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/27/25 09:41	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/27/25 09:41	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/27/25 09:41	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/27/25 09:41	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/27/25 09:41	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/27/25 09:41	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/27/25 09:41	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/27/25 09:41	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/27/25 09:41	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/27/25 09:41	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/27/25 09:41	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/27/25 09:41	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/27/25 09:41	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/27/25 09:41	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/27/25 09:41	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/27/25 09:41	1
Styrene	0.42	U	1.0	0.42	ug/L			01/27/25 09:41	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/27/25 09:41	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/27/25 09:41	1
Toluene	0.38	U	1.0	0.38	ug/L			01/27/25 09:41	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/27/25 09:41	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/27/25 09:41	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/27/25 09:41	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/27/25 09:41	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/27/25 09:41	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/27/25 09:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/27/25 09:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 128*		*01/27/25 09:41*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 460-319229-1

Date Collected: 01/23/25 15:20

Matrix: Water

Date Received: 01/23/25 16:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*87*		*76 - 120*		*01/27/25 09:41*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 132*		*01/27/25 09:41*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*01/27/25 09:41*	*1*

Client Sample ID: FB-20250123

Lab Sample ID: 460-319229-2

Date Collected: 01/23/25 12:00

Matrix: Water

Date Received: 01/23/25 16:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/27/25 10:04	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/27/25 10:04	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/27/25 10:04	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/27/25 10:04	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/27/25 10:04	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/27/25 10:04	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/27/25 10:04	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/27/25 10:04	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/27/25 10:04	1
1,4-Dioxane	28	U	50	28	ug/L			01/27/25 10:04	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/27/25 10:04	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/27/25 10:04	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/27/25 10:04	1
Acetone	4.4	U	5.0	4.4	ug/L			01/27/25 10:04	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/27/25 10:04	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/27/25 10:04	1
Benzene	0.20	U	1.0	0.20	ug/L			01/27/25 10:04	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/27/25 10:04	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/27/25 10:04	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/27/25 10:04	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/27/25 10:04	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/27/25 10:04	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/27/25 10:04	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/27/25 10:04	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/27/25 10:04	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/27/25 10:04	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/27/25 10:04	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/27/25 10:04	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/27/25 10:04	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/27/25 10:04	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/27/25 10:04	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/27/25 10:04	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/27/25 10:04	1
Methylene Chloride	**0.51**	**J**	1.0	0.32	ug/L			01/27/25 10:04	1
Styrene	0.42	U	1.0	0.42	ug/L			01/27/25 10:04	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/27/25 10:04	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/27/25 10:04	1
Toluene	0.38	U	1.0	0.38	ug/L			01/27/25 10:04	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/27/25 10:04	1

Client Sample ID: FB-20250123
Date Collected: 01/23/25 12:00
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/27/25 10:04	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/27/25 10:04	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/27/25 10:04	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/27/25 10:04	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/27/25 10:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/27/25 10:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 128*		*01/27/25 10:04*	*1*
4-Bromofluorobenzene	*86*		*76 - 120*		*01/27/25 10:04*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 132*		*01/27/25 10:04*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/27/25 10:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		01/25/25 11:53	01/25/25 22:12	1
1,2,4-Trichlorobenzene	0.64	U	2.0	0.64	ug/L		01/25/25 11:53	01/25/25 22:12	1
1,2-Dichlorobenzene	0.50	U	10	0.50	ug/L		01/25/25 11:53	01/25/25 22:12	1
1,2-Diphenylhydrazine	0.79	U	10	0.79	ug/L		01/25/25 11:53	01/25/25 22:12	1
1,3-Dichlorobenzene	2.0	U	10	2.0	ug/L		01/25/25 11:53	01/25/25 22:12	1
1,4-Dichlorobenzene	1.1	U	10	1.1	ug/L		01/25/25 11:53	01/25/25 22:12	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		01/25/25 11:53	01/25/25 22:12	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		01/25/25 11:53	01/25/25 22:12	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		01/25/25 11:53	01/25/25 22:12	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		01/25/25 11:53	01/25/25 22:12	1
2,4-Dinitrophenol	11	U	40	11	ug/L		01/25/25 11:53	01/25/25 22:12	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		01/25/25 11:53	01/25/25 22:12	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		01/25/25 11:53	01/25/25 22:12	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		01/25/25 11:53	01/25/25 22:12	1
2-Chlorophenol	0.95	U	10	0.95	ug/L		01/25/25 11:53	01/25/25 22:12	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		01/25/25 11:53	01/25/25 22:12	1
2-Methylphenol	0.67	U	10	0.67	ug/L		01/25/25 11:53	01/25/25 22:12	1
2-Nitroaniline	1.2	U	10	1.2	ug/L		01/25/25 11:53	01/25/25 22:12	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		01/25/25 11:53	01/25/25 22:12	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		01/25/25 11:53	01/25/25 22:12	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		01/25/25 11:53	01/25/25 22:12	1
4,6-Dinitro-2-methylphenol	8.6	U	20	8.6	ug/L		01/25/25 11:53	01/25/25 22:12	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		01/25/25 11:53	01/25/25 22:12	1
4-Chloro-3-methylphenol	1.3	U	10	1.3	ug/L		01/25/25 11:53	01/25/25 22:12	1
4-Chloroaniline	1.9	U	10	1.9	ug/L		01/25/25 11:53	01/25/25 22:12	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		01/25/25 11:53	01/25/25 22:12	1
4-Methylphenol	0.65	U	10	0.65	ug/L		01/25/25 11:53	01/25/25 22:12	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		01/25/25 11:53	01/25/25 22:12	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		01/25/25 11:53	01/25/25 22:12	1
Acenaphthene	1.1	U	10	1.1	ug/L		01/25/25 11:53	01/25/25 22:12	1
Acenaphthylene	0.82	U	10	0.82	ug/L		01/25/25 11:53	01/25/25 22:12	1
Acetophenone	2.3	U	10	2.3	ug/L		01/25/25 11:53	01/25/25 22:12	1
Anthracene	1.3	U	10	1.3	ug/L		01/25/25 11:53	01/25/25 22:12	1

Client Sample ID: FB-20250123
Date Collected: 01/23/25 12:00
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	1.3	U	2.0	1.3	ug/L		01/25/25 11:53	01/25/25 22:12	1
Benzaldehyde	2.1	U	10	2.1	ug/L		01/25/25 11:53	01/25/25 22:12	1
Benzidine	2.8	U	20	2.8	ug/L		01/25/25 11:53	01/25/25 22:12	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		01/25/25 11:53	01/25/25 22:12	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		01/25/25 11:53	01/25/25 22:12	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		01/25/25 11:53	01/25/25 22:12	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		01/25/25 11:53	01/25/25 22:12	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		01/25/25 11:53	01/25/25 22:12	1
bis (2-chloroisopropyl) ether	0.63	U	10	0.63	ug/L		01/25/25 11:53	01/25/25 22:12	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		01/25/25 11:53	01/25/25 22:12	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		01/25/25 11:53	01/25/25 22:12	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		01/25/25 11:53	01/25/25 22:12	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		01/25/25 11:53	01/25/25 22:12	1
Caprolactam	2.2	U	10	2.2	ug/L		01/25/25 11:53	01/25/25 22:12	1
Carbazole	0.68	U	10	0.68	ug/L		01/25/25 11:53	01/25/25 22:12	1
Chrysene	0.91	U	2.0	0.91	ug/L		01/25/25 11:53	01/25/25 22:12	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		01/25/25 11:53	01/25/25 22:12	1
Dibenzofuran	1.1	U	10	1.1	ug/L		01/25/25 11:53	01/25/25 22:12	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		01/25/25 11:53	01/25/25 22:12	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		01/25/25 11:53	01/25/25 22:12	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		01/25/25 11:53	01/25/25 22:12	1
Di-n-octyl phthalate	4.0	U	10	4.0	ug/L		01/25/25 11:53	01/25/25 22:12	1
Fluoranthene	0.84	U	10	0.84	ug/L		01/25/25 11:53	01/25/25 22:12	1
Fluorene	0.91	U	10	0.91	ug/L		01/25/25 11:53	01/25/25 22:12	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		01/25/25 11:53	01/25/25 22:12	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		01/25/25 11:53	01/25/25 22:12	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		01/25/25 11:53	01/25/25 22:12	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		01/25/25 11:53	01/25/25 22:12	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		01/25/25 11:53	01/25/25 22:12	1
Isophorone	0.80	U	10	0.80	ug/L		01/25/25 11:53	01/25/25 22:12	1
Naphthalene	0.54	U	2.0	0.54	ug/L		01/25/25 11:53	01/25/25 22:12	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		01/25/25 11:53	01/25/25 22:12	1
N-Nitrosodimethylamine	0.45	U	10	0.45	ug/L		01/25/25 11:53	01/25/25 22:12	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		01/25/25 11:53	01/25/25 22:12	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		01/25/25 11:53	01/25/25 22:12	1
Pentachlorophenol	6.6	U	20	6.6	ug/L		01/25/25 11:53	01/25/25 22:12	1
Phenanthrene	1.3	U	10	1.3	ug/L		01/25/25 11:53	01/25/25 22:12	1
Phenol	0.29	U	10	0.29	ug/L		01/25/25 11:53	01/25/25 22:12	1
Pyrene	1.6	U	10	1.6	ug/L		01/25/25 11:53	01/25/25 22:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*01/25/25 11:53*	*01/25/25 22:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*37 - 150*	*01/25/25 11:53*	*01/25/25 22:12*	*1*
2-Fluorobiphenyl	*75*		*46 - 139*	*01/25/25 11:53*	*01/25/25 22:12*	*1*
2-Fluorophenol (Surr)	*44*		*16 - 80*	*01/25/25 11:53*	*01/25/25 22:12*	*1*
Nitrobenzene-d5 (Surr)	*78*		*51 - 145*	*01/25/25 11:53*	*01/25/25 22:12*	*1*
Phenol-d5 (Surr)	*30*		*10 - 56*	*01/25/25 11:53*	*01/25/25 22:12*	*1*
Terphenyl-d14 (Surr)	*28*		*13 - 159*	*01/25/25 11:53*	*01/25/25 22:12*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: FB-20250123

Date Collected: 01/23/25 12:00
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-2

Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 11:01	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/24/25 21:14	01/27/25 11:01	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/24/25 21:14	01/27/25 11:01	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/24/25 21:14	01/27/25 11:01	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/24/25 21:14	01/27/25 11:01	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/24/25 21:14	01/27/25 11:01	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/24/25 21:14	01/27/25 11:01	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 11:01	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 11:01	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/24/25 21:14	01/27/25 11:01	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 11:01	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/24/25 21:14	01/27/25 11:01	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 11:01	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/24/25 21:14	01/27/25 11:01	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/24/25 21:14	01/27/25 11:01	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 11:01	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/24/25 21:14	01/27/25 11:01	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 11:01	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/24/25 21:14	01/27/25 11:01	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/24/25 21:14	01/27/25 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*34 - 120*	*01/24/25 21:14*	*01/27/25 11:01*	*1*
Tetrachloro-m-xylene	*73*		*34 - 120*	*01/24/25 21:14*	*01/27/25 11:01*	*1*
DCB Decachlorobiphenyl	*68*		*30 - 131*	*01/24/25 21:14*	*01/27/25 11:01*	*1*
DCB Decachlorobiphenyl	*59*		*30 - 131*	*01/24/25 21:14*	*01/27/25 11:01*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 08:43	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 08:43	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 08:43	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 08:43	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 08:43	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 08:43	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 08:43	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 08:43	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 08:43	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 08:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*18 - 145*	*01/24/25 21:04*	*01/27/25 08:43*	*1*
DCB Decachlorobiphenyl	*60*		*18 - 145*	*01/24/25 21:04*	*01/27/25 08:43*	*1*
Tetrachloro-m-xylene	*75*		*21 - 124*	*01/24/25 21:04*	*01/27/25 08:43*	*1*
Tetrachloro-m-xylene	*74*		*21 - 124*	*01/24/25 21:04*	*01/27/25 08:43*	*1*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH (C9-C40)	0.40	U	0.40	0.40	mg/L		01/24/25 20:35	01/25/25 11:17	1

Client Sample ID: FB-20250123

Lab Sample ID: 460-319229-2

Date Collected: 01/23/25 12:00

Matrix: Water

Date Received: 01/23/25 16:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*40 - 140*	*01/24/25 20:35*	*01/25/25 11:17*	*1*
1-Chlorooctadecane	*86*		*40 - 140*	*01/24/25 20:35*	*01/25/25 11:17*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		01/28/25 10:44	01/28/25 16:30	1
Antimony	0.76	U	2.0	0.76	ug/L		01/28/25 10:44	01/28/25 16:30	1
Arsenic	0.89	U	2.0	0.89	ug/L		01/28/25 10:44	01/28/25 16:30	1
Barium	0.91	U	4.0	0.91	ug/L		01/28/25 10:44	01/28/25 16:30	1
Beryllium	0.13	U	0.80	0.13	ug/L		01/28/25 10:44	01/28/25 16:30	1
Cadmium	0.39	U	2.0	0.39	ug/L		01/28/25 10:44	01/28/25 16:30	1
Calcium	**62.9**	**J**	500	53.6	ug/L		01/28/25 10:44	01/28/25 16:30	1
Chromium	2.5	U	4.0	2.5	ug/L		01/28/25 10:44	01/28/25 16:30	1
Cobalt	0.71	U	4.0	0.71	ug/L		01/28/25 10:44	01/28/25 16:30	1
Copper	2.5	U	4.0	2.5	ug/L		01/28/25 10:44	01/28/25 16:30	1
Iron	58.2	U	120	58.2	ug/L		01/28/25 10:44	01/28/25 16:30	1
Lead	0.84	U	1.2	0.84	ug/L		01/28/25 10:44	01/28/25 16:30	1
Magnesium	46.9	U	200	46.9	ug/L		01/28/25 10:44	01/28/25 16:30	1
Manganese	1.5	U	8.0	1.5	ug/L		01/28/25 10:44	01/28/25 16:30	1
Nickel	0.91	U	4.0	0.91	ug/L		01/28/25 10:44	01/28/25 16:30	1
Potassium	112	U	200	112	ug/L		01/28/25 10:44	01/28/25 16:30	1
Selenium	0.59	U	2.5	0.59	ug/L		01/28/25 10:44	01/28/25 16:30	1
Silver	0.29	U	2.0	0.29	ug/L		01/28/25 10:44	01/28/25 16:30	1
Sodium	219	U	500	219	ug/L		01/28/25 10:44	01/28/25 16:30	1
Thallium	0.21	U	0.80	0.21	ug/L		01/28/25 10:44	01/28/25 16:30	1
Vanadium	0.68	U	4.0	0.68	ug/L		01/28/25 10:44	01/28/25 16:30	1
Zinc	6.5	U	16.0	6.5	ug/L		01/28/25 10:44	01/28/25 16:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/25 11:28	01/27/25 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0040	U	0.010	0.0040	mg/L		01/29/25 09:16	01/29/25 12:54	1

Client Sample ID: 2B-06-TS

Lab Sample ID: 460-319229-3

Date Collected: 01/23/25 15:20

Matrix: Solid

Date Received: 01/23/25 16:50

Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00036	U	0.0015	0.00036	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,1,2,2-Tetrachloroethane	0.00033	U	0.0015	0.00033	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00046	U	0.0015	0.00046	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,1,2-Trichloroethane	0.00027	U	0.0015	0.00027	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,1-Dichloroethane	0.00032	U	0.0015	0.00032	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,1-Dichloroethene	0.00035	U	0.0015	0.00035	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,2,3-Trichlorobenzene	0.00028	U	0.0015	0.00028	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,2,4-Trichlorobenzene	0.00055	U	0.0015	0.00055	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,2-Dibromo-3-Chloropropane	0.00071	U *+	0.0015	0.00071	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1

Client Sample ID: 2B-06-TS
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-3
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.00028	U	0.0015	0.00028	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,2-Dichlorobenzene	0.00056	U	0.0015	0.00056	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,2-Dichloroethane	0.00046	U	0.0015	0.00046	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,2-Dichloropropane	0.00065	U	0.0015	0.00065	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,3-Dichlorobenzene	0.00056	U	0.0015	0.00056	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
1,4-Dichlorobenzene	0.00035	U	0.0015	0.00035	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
2-Butanone (MEK)	0.00057	U	0.0077	0.00057	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
2-Hexanone	0.0026	U	0.0077	0.0026	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
4-Methyl-2-pentanone (MIBK)	0.0024	U *-	0.0077	0.0024	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Acetone	0.0088	U	0.0092	0.0088	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Benzene	0.00040	U	0.0015	0.00040	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Bromodichloromethane	0.00040	U	0.0015	0.00040	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Bromoform	0.00065	U	0.0015	0.00065	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Bromomethane	0.0015	U	0.0031	0.0015	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Carbon disulfide	0.00041	U	0.0015	0.00041	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Carbon tetrachloride	0.00060	U	0.0015	0.00060	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Chlorobenzene	0.00027	U	0.0015	0.00027	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Chlorobromomethane	0.00043	U *+	0.0015	0.00043	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Chloroethane	0.00080	U	0.0015	0.00080	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Chloroform	0.0015	U	0.0015	0.0015	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Chloromethane	0.00067	U	0.0015	0.00067	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
cis-1,2-Dichloroethene	0.00055	U	0.0015	0.00055	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
cis-1,3-Dichloropropene	0.00042	U	0.0015	0.00042	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Cyclohexane	0.00034	U	0.0015	0.00034	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Dibromochloromethane	0.00030	U	0.0015	0.00030	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Dichlorodifluoromethane	0.00052	U	0.0015	0.00052	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Ethylbenzene	0.00031	U	0.0015	0.00031	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Isopropylbenzene	0.00044	U	0.0015	0.00044	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Methyl acetate	0.0066	U	0.0077	0.0066	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Methyl tert-butyl ether	0.00079	U	0.0015	0.00079	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Methylcyclohexane	0.00077	U	0.0015	0.00077	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Methylene Chloride	0.0018	U	0.0031	0.0018	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
m-Xylene & p-Xylene	0.00027	U	0.0015	0.00027	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
o-Xylene	0.00030	U	0.0015	0.00030	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Styrene	0.00043	U	0.0015	0.00043	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Tetrachloroethene	0.00047	U	0.0015	0.00047	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Toluene	0.00036	U	0.0015	0.00036	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
trans-1,2-Dichloroethene	0.00038	U	0.0015	0.00038	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
trans-1,3-Dichloropropene	0.00041	U	0.0015	0.00041	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Trichloroethene	0.00049	U	0.0015	0.00049	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Trichlorofluoromethane	0.00062	U	0.0015	0.00062	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1
Vinyl chloride	0.00084	U	0.0015	0.00084	mg/Kg	☼	01/24/25 18:53	01/29/25 01:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/24/25 18:53*	*01/29/25 01:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/24/25 18:53*	*01/29/25 01:02*	*1*
4-Bromofluorobenzene	*93*		*71 - 128*	*01/24/25 18:53*	*01/29/25 01:02*	*1*
Dibromofluoromethane (Surr)	*115*		*50 - 150*	*01/24/25 18:53*	*01/29/25 01:02*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 2B-06-TS

Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-3

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*71 - 126*	*01/24/25 18:53*	*01/29/25 01:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
4-Nitrophenol	0.054	U	0.68	0.054	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Benzo[a]pyrene	**0.012**	**J**	0.033	0.0089	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Benzo[b]fluoranthene	**0.017**	**J**	0.033	0.0086	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1

Client Sample ID: 2B-06-TS
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-3
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Chrysene	**0.014**	**J**	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Di-n-butyl phthalate	**0.024**	**J**	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Fluoranthene	**0.019**	**J**	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Phenanthrene	**0.015**	**J**	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1
Pyrene	**0.020**	**J**	0.33	0.0083	mg/Kg	☼	01/27/25 11:40	01/28/25 10:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.73*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
1R-.alpha.-Pinene	*1.8*	*J N*	*mg/Kg*	☼	*2.54*	*7785-70-8*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
.beta.-Pinene	*0.77*	*J N*	*mg/Kg*	☼	*2.85*	*127-91-3*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Unknown	*0.70*	*J*	*mg/Kg*	☼	*8.21*	*N/A*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Unknown	*0.67*	*J*	*mg/Kg*	☼	*9.18*	*N/A*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*1.6*	*J N*	*mg/Kg*	☼	*9.28*	*1740-19-8*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
3-Eicosene, (E)-	*0.78*	*J N*	*mg/Kg*	☼	*9.36*	*74685-33-9*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Tetradecanoic acid	*0.50*	*J N*	*mg/Kg*	☼	*9.59*	*544-63-8*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Unknown	*0.65*	*J*	*mg/Kg*	☼	*9.67*	*N/A*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Ethanol, 2-(tetradecyloxy)-	*1.3*	*J N*	*mg/Kg*	☼	*10.03*	*2136-70-1*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Tetracosanoic acid	*0.73*	*J N*	*mg/Kg*	☼	*10.27*	*557-59-5*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
9-Tricosene, (Z)-	*1.0*	*J N*	*mg/Kg*	☼	*10.72*	*27519-02-4*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
17-Octadecenal	*0.44*	*J N*	*mg/Kg*	☼	*11.21*	*56554-86-0*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Unknown	*4.2*	*J*	*mg/Kg*	☼	*11.45*	*N/A*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
2,2,4a,6a,8a,9,12b,14a-Octamethyl-1,2,3,4,4a,5,6,6a,6b,7,8,8	*1.8*	*J N*	*mg/Kg*	☼	*12.25*	*53013-35-7*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
1-Docosene	*0.72*	*J N*	*mg/Kg*	☼	*12.31*	*1599-67-3*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Unknown	*0.87*	*J*	*mg/Kg*	☼	*12.38*	*N/A*	*01/27/25 11:40*	*01/28/25 10:17*	*1*
Stigmasterol, 22,23-dihydro-	*3.2*	*J N*	*mg/Kg*	☼	*12.50*	*1000214-20-7*	*01/27/25 11:40*	*01/28/25 10:17*	*1*

Client Sample ID: 2B-06-TS

Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-3

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.53	J	mg/Kg	☼	12.67	N/A	01/27/25 11:40	01/28/25 10:17	1
Stigmast-4-en-3-one	1.9	J N	mg/Kg	☼	13.20	1058-61-3	01/27/25 11:40	01/28/25 10:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		24 - 137	01/27/25 11:40	01/28/25 10:17	1
2-Fluorobiphenyl	70		38 - 128	01/27/25 11:40	01/28/25 10:17	1
2-Fluorophenol (Surr)	62		31 - 133	01/27/25 11:40	01/28/25 10:17	1
Nitrobenzene-d5 (Surr)	64		31 - 120	01/27/25 11:40	01/28/25 10:17	1
Phenol-d5 (Surr)	63		35 - 132	01/27/25 11:40	01/28/25 10:17	1
Terphenyl-d14 (Surr)	71		44 - 147	01/27/25 11:40	01/28/25 10:17	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 09:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	102		17 - 150	01/25/25 18:37	01/27/25 09:11	1
DCB Decachlorobiphenyl	91		17 - 150	01/25/25 18:37	01/27/25 09:11	1
Tetrachloro-m-xylene	70		21 - 150	01/25/25 18:37	01/27/25 09:11	1
Tetrachloro-m-xylene	60		21 - 150	01/25/25 18:37	01/27/25 09:11	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1

Client Sample ID: 2B-06-TS

Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-3

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*20 - 150*	*01/25/25 18:34*	*01/27/25 15:48*	*1*
DCB Decachlorobiphenyl	*101*		*20 - 150*	*01/25/25 18:34*	*01/27/25 15:48*	*1*
Tetrachloro-m-xylene	*75*		*20 - 150*	*01/25/25 18:34*	*01/27/25 15:48*	*1*
Tetrachloro-m-xylene	*74*		*20 - 150*	*01/25/25 18:34*	*01/27/25 15:48*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**13**		2.0	0.010	mg/Kg			01/28/25 12:07	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total EPH	**13**		2.0	0.010	mg/Kg			01/28/25 12:07	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:05	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:05	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:05	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:05	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:05	1
C10-C12 Aromatics	**3.7**		2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:05	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:05	1
C21-C36 Aromatic	**8.8**		8.1	8.1	mg/Kg	☼	01/27/25 10:06	01/28/25 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*65*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:05*	*1*
2-Fluorobiphenyl	*84*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:05*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:05*	*1*
1-Chlorooctadecane	*83*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:05*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**591**		17.9	4.9	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Antimony	**0.19**	**J**	0.89	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Arsenic	**0.40**	**J**	0.89	0.092	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Barium	**3.3**		1.8	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Cadmium	0.10	U	0.89	0.10	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Calcium	**109**		89.3	36.3	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Chromium	**1.5**	**J**	1.8	0.81	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Cobalt	0.13	U	1.8	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Copper	**1.7**	**J**	1.8	0.33	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Iron	**604**		53.6	18.0	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Lead	**17.1**		0.54	0.18	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Magnesium	**51.2**	**J**	89.3	9.1	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Manganese	**3.8**		3.6	0.36	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Nickel	**0.67**	**J**	1.8	0.42	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Potassium	**39.9**	**J**	89.3	14.5	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Selenium	**0.13**	**J**	1.1	0.11	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1

Client Sample ID: 2B-06-TS

Lab Sample ID: 460-319229-3
Date Collected: 01/23/25 15:20
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.079	U	0.36	0.079	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Sodium	40.8	U	89.3	40.8	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Vanadium	**2.8**		1.8	0.18	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1
Zinc	**4.4**	**J**	7.1	2.7	mg/Kg	☼	01/28/25 06:35	01/28/25 15:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.016	0.0073	mg/Kg	☼	01/27/25 01:29	01/27/25 06:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/28/25 09:12	01/28/25 12:45	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.1**		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 2B-06-CS-4

Lab Sample ID: 460-319229-4
Date Collected: 01/23/25 15:30
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 98.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,1,2,2-Tetrachloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,1,2-Trichloroethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,1-Dichloroethane	0.00024	U	0.0012	0.00024	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,1-Dichloroethene	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,2,3-Trichlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,2,4-Trichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,2-Dibromo-3-Chloropropane	0.00054	U *+	0.0012	0.00054	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,2-Dibromoethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,2-Dichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,2-Dichloroethane	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,2-Dichloropropane	0.00049	U	0.0012	0.00049	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,3-Dichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
1,4-Dichlorobenzene	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
2-Butanone (MEK)	0.00043	U	0.0058	0.00043	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
2-Hexanone	0.0020	U	0.0058	0.0020	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
4-Methyl-2-pentanone (MIBK)	0.0018	U *-	0.0058	0.0018	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Acetone	0.0067	U	0.0070	0.0067	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Benzene	0.00030	U	0.0012	0.00030	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Bromodichloromethane	0.00030	U	0.0012	0.00030	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Bromoform	0.00049	U	0.0012	0.00049	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Bromomethane	0.0012	U	0.0023	0.0012	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Carbon disulfide	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Carbon tetrachloride	0.00045	U	0.0012	0.00045	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Chlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Chlorobromomethane	0.00033	U *+	0.0012	0.00033	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Chloroethane	0.00061	U	0.0012	0.00061	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 2B-06-CS-4

Date Collected: 01/23/25 15:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-4

Matrix: Solid
Percent Solids: 98.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.0011	U	0.0012	0.0011	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Chloromethane	0.00051	U	0.0012	0.00051	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
cis-1,2-Dichloroethene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
cis-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Cyclohexane	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Dibromochloromethane	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Dichlorodifluoromethane	0.00039	U	0.0012	0.00039	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Ethylbenzene	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Isopropylbenzene	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Methyl acetate	0.0050	U	0.0058	0.0050	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Methyl tert-butyl ether	0.00060	U	0.0012	0.00060	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Methylcyclohexane	0.00058	U	0.0012	0.00058	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Methylene Chloride	0.0013	U	0.0023	0.0013	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
m-Xylene & p-Xylene	**0.00048**	**J**	0.0012	0.00020	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
o-Xylene	**0.00037**	**J**	0.0012	0.00023	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Styrene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Tetrachloroethene	0.00036	U	0.0012	0.00036	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Toluene	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
trans-1,2-Dichloroethene	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
trans-1,3-Dichloropropene	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Trichloroethene	0.00037	U	0.0012	0.00037	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Trichlorofluoromethane	0.00047	U	0.0012	0.00047	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1
Vinyl chloride	0.00064	U	0.0012	0.00064	mg/Kg	☼	01/24/25 18:54	01/29/25 01:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/24/25 18:54*	*01/29/25 01:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*	*01/24/25 18:54*	*01/29/25 01:25*	*1*
4-Bromofluorobenzene	*87*		*71 - 128*	*01/24/25 18:54*	*01/29/25 01:25*	*1*
Dibromofluoromethane (Surr)	*114*		*50 - 150*	*01/24/25 18:54*	*01/29/25 01:25*	*1*
Toluene-d8 (Surr)	*90*		*71 - 126*	*01/24/25 18:54*	*01/29/25 01:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2,4-Dinitrophenol	0.16	U F1	0.27	0.16	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 2B-06-CS-4
Date Collected: 01/23/25 15:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-4
Matrix: Solid
Percent Solids: 98.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
4,6-Dinitro-2-methylphenol	0.14	U F1	0.27	0.14	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
4-Chloroaniline	0.059	U F2	0.33	0.059	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Atrazine	0.020	U F1	0.13	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Benzo[b]fluoranthene	0.0087	U	0.033	0.0087	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Hexachlorocyclopentadiene	0.029	U F1 *+	0.33	0.029	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1

Client Sample ID: 2B-06-CS-4

Date Collected: 01/23/25 15:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-4

Matrix: Solid
Percent Solids: 98.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Pentachlorophenol	0.069	U F1	0.27	0.069	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/27/25 11:40	01/28/25 06:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*1.9*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/27/25 11:40*	*01/28/25 06:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*24 - 137*	*01/27/25 11:40*	*01/28/25 06:08*	*1*
2-Fluorobiphenyl	*75*		*38 - 128*	*01/27/25 11:40*	*01/28/25 06:08*	*1*
2-Fluorophenol (Surr)	*67*		*31 - 133*	*01/27/25 11:40*	*01/28/25 06:08*	*1*
Nitrobenzene-d5 (Surr)	*69*		*31 - 120*	*01/27/25 11:40*	*01/28/25 06:08*	*1*
Phenol-d5 (Surr)	*70*		*35 - 132*	*01/27/25 11:40*	*01/28/25 06:08*	*1*
Terphenyl-d14 (Surr)	*77*		*44 - 147*	*01/27/25 11:40*	*01/28/25 06:08*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*17 - 150*	*01/25/25 18:37*	*01/27/25 09:23*	*1*
DCB Decachlorobiphenyl	*94*		*17 - 150*	*01/25/25 18:37*	*01/27/25 09:23*	*1*
Tetrachloro-m-xylene	*82*		*21 - 150*	*01/25/25 18:37*	*01/27/25 09:23*	*1*
Tetrachloro-m-xylene	*73*		*21 - 150*	*01/25/25 18:37*	*01/27/25 09:23*	*1*

Client Sample ID: 2B-06-CS-4

Date Collected: 01/23/25 15:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-4

Matrix: Solid
Percent Solids: 98.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:05*	*1*
DCB Decachlorobiphenyl	*96*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:05*	*1*
Tetrachloro-m-xylene	*84*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:05*	*1*
Tetrachloro-m-xylene	*80*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:05*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:20	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:20	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:20	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/27/25 10:06	01/28/25 17:20	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/27/25 10:06	01/28/25 17:20	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:20	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:20	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/27/25 10:06	01/28/25 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:20*	*1*
2-Fluorobiphenyl	*85*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:20*	*1*
2-Bromonaphthalene	*87*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:20*	*1*
1-Chlorooctadecane	*100*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:20*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4920**		18.8	5.1	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Arsenic	**0.71**	**J**	0.94	0.097	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Barium	**4.6**		1.9	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Beryllium	0.053	U	0.38	0.053	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Calcium	38.2	U	93.8	38.2	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Chromium	**5.5**		1.9	0.85	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Cobalt	**0.20**	**J**	1.9	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1

Client Sample ID: 2B-06-CS-4

Date Collected: 01/23/25 15:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-4

Matrix: Solid
Percent Solids: 98.7

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.9		1.9	0.35	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Iron	2160		56.3	18.9	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Lead	2.0		0.56	0.19	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Magnesium	53.1	J	93.8	9.6	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Manganese	2.3	J	3.8	0.38	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Nickel	2.3		1.9	0.44	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Potassium	80.2	J	93.8	15.2	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Silver	0.083	U	0.38	0.083	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Sodium	42.9	U	93.8	42.9	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Thallium	0.038	U	0.38	0.038	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Vanadium	5.8		1.9	0.19	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1
Zinc	2.9	U	7.5	2.9	mg/Kg	☼	01/28/25 06:35	01/28/25 15:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0083	J	0.015	0.0073	mg/Kg	☼	01/27/25 01:29	01/27/25 06:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/28/25 09:12	01/28/25 12:46	1
Percent Moisture (EPA Moisture)	1.3		1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	98.7		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 2B-06-CS-8

Date Collected: 01/23/25 15:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-5

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,1,2,2-Tetrachloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,1,2-Trichloroethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,1-Dichloroethane	0.00024	U	0.0012	0.00024	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,1-Dichloroethene	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,2,3-Trichlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,2,4-Trichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,2-Dibromo-3-Chloropropane	0.00054	U *+	0.0012	0.00054	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,2-Dibromoethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,2-Dichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,2-Dichloroethane	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,2-Dichloropropane	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,3-Dichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
1,4-Dichlorobenzene	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
2-Butanone (MEK)	0.00043	U	0.0059	0.00043	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
2-Hexanone	0.0020	U	0.0059	0.0020	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
4-Methyl-2-pentanone (MIBK)	0.0018	U *-	0.0059	0.0018	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Acetone	0.0067	U	0.0071	0.0067	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Benzene	0.00030	U	0.0012	0.00030	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1

Client Sample ID: 2B-06-CS-8
Date Collected: 01/23/25 15:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-5
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.00030	U	0.0012	0.00030	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Bromoform	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Bromomethane	0.0012	U	0.0024	0.0012	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Carbon disulfide	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Carbon tetrachloride	0.00046	U	0.0012	0.00046	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Chlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Chlorobromomethane	0.00033	U *+	0.0012	0.00033	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Chloroethane	0.00061	U	0.0012	0.00061	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Chloroform	0.0011	U	0.0012	0.0011	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Chloromethane	0.00051	U	0.0012	0.00051	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
cis-1,2-Dichloroethene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
cis-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Cyclohexane	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Dibromochloromethane	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Dichlorodifluoromethane	0.00040	U	0.0012	0.00040	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Ethylbenzene	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Isopropylbenzene	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Methyl acetate	0.0051	U	0.0059	0.0051	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Methyl tert-butyl ether	0.00060	U	0.0012	0.00060	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Methylcyclohexane	0.00059	U	0.0012	0.00059	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Methylene Chloride	0.0013	U	0.0024	0.0013	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
m-Xylene & p-Xylene	0.00020	U	0.0012	0.00020	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
o-Xylene	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Styrene	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Tetrachloroethene	0.00036	U	0.0012	0.00036	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Toluene	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
trans-1,2-Dichloroethene	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
trans-1,3-Dichloropropene	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Trichloroethene	0.00038	U	0.0012	0.00038	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Trichlorofluoromethane	0.00048	U	0.0012	0.00048	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1
Vinyl chloride	0.00064	U	0.0012	0.00064	mg/Kg	☼	01/24/25 18:55	01/29/25 01:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/24/25 18:55*	*01/29/25 01:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*	*01/24/25 18:55*	*01/29/25 01:48*	*1*
4-Bromofluorobenzene	*84*		*71 - 128*	*01/24/25 18:55*	*01/29/25 01:48*	*1*
Dibromofluoromethane (Surr)	*113*		*50 - 150*	*01/24/25 18:55*	*01/29/25 01:48*	*1*
Toluene-d8 (Surr)	*89*		*71 - 126*	*01/24/25 18:55*	*01/29/25 01:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 2B-06-CS-8
Date Collected: 01/23/25 15:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-5
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Di-n-butyl phthalate	**0.015**	**J**	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1

Client Sample ID: 2B-06-CS-8
Date Collected: 01/23/25 15:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-5
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Pentachlorophenol	**0.13**	**J**	0.27	0.068	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg	☼	01/27/25 11:40	01/28/25 07:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.60*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/27/25 11:40*	*01/28/25 07:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*24 - 137*	*01/27/25 11:40*	*01/28/25 07:06*	*1*
2-Fluorobiphenyl	*74*		*38 - 128*	*01/27/25 11:40*	*01/28/25 07:06*	*1*
2-Fluorophenol (Surr)	*65*		*31 - 133*	*01/27/25 11:40*	*01/28/25 07:06*	*1*
Nitrobenzene-d5 (Surr)	*68*		*31 - 120*	*01/27/25 11:40*	*01/28/25 07:06*	*1*
Phenol-d5 (Surr)	*67*		*35 - 132*	*01/27/25 11:40*	*01/28/25 07:06*	*1*
Terphenyl-d14 (Surr)	*74*		*44 - 147*	*01/27/25 11:40*	*01/28/25 07:06*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 09:35	1

Client Sample ID: 2B-06-CS-8

Date Collected: 01/23/25 15:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-5

Matrix: Solid
Percent Solids: 99.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*113*		*17 - 150*	*01/25/25 18:37*	*01/27/25 09:35*	*1*
DCB Decachlorobiphenyl	*111*		*17 - 150*	*01/25/25 18:37*	*01/27/25 09:35*	*1*
Tetrachloro-m-xylene	*88*		*21 - 150*	*01/25/25 18:37*	*01/27/25 09:35*	*1*
Tetrachloro-m-xylene	*86*		*21 - 150*	*01/25/25 18:37*	*01/27/25 09:35*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:22*	*1*
DCB Decachlorobiphenyl	*106*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:22*	*1*
Tetrachloro-m-xylene	*90*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:22*	*1*
Tetrachloro-m-xylene	*88*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:22*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:36	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:36	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:36	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:36	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:36	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:36	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:36	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:36*	*1*
2-Fluorobiphenyl	*82*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:36*	*1*
2-Bromonaphthalene	*82*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:36*	*1*
1-Chlorooctadecane	*110*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:36*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2110**		17.9	4.9	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1

Client Sample ID: 2B-06-CS-8

Lab Sample ID: 460-319229-5

Date Collected: 01/23/25 15:40
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.32**	**J**	0.90	0.092	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Barium	**2.5**		1.8	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Calcium	36.5	U	89.7	36.5	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Chromium	**2.8**		1.8	0.81	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Cobalt	0.13	U	1.8	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Copper	**1.0**	**J**	1.8	0.33	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Iron	**791**		53.8	18.1	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Lead	**1.2**		0.54	0.18	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Magnesium	**19.9**	**J**	89.7	9.1	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Manganese	**1.1**	**J**	3.6	0.36	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Nickel	**0.94**	**J**	1.8	0.42	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Potassium	**58.7**	**J**	89.7	14.5	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Sodium	41.0	U	89.7	41.0	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Vanadium	**2.5**		1.8	0.18	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	01/28/25 06:35	01/28/25 15:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0072	U	0.015	0.0072	mg/Kg	☼	01/27/25 01:29	01/27/25 06:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.20	0.11	mg/Kg	☼	01/28/25 09:12	01/28/25 12:47	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.6**		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 3-02-TS

Lab Sample ID: 460-319229-6

Date Collected: 01/23/25 13:40
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00039	U H	0.0017	0.00039	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,1,2,2-Tetrachloroethane	0.00036	U H	0.0017	0.00036	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00050	U H	0.0017	0.00050	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,1,2-Trichloroethane	0.00030	U H	0.0017	0.00030	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,1-Dichloroethane	0.00034	U H	0.0017	0.00034	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,1-Dichloroethene	0.00038	U H	0.0017	0.00038	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,2,3-Trichlorobenzene	0.00030	U H	0.0017	0.00030	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,2,4-Trichlorobenzene	0.00060	U H	0.0017	0.00060	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,2-Dibromo-3-Chloropropane	0.00077	U H *-	0.0017	0.00077	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,2-Dibromoethane	0.00030	U H	0.0017	0.00030	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,2-Dichlorobenzene	0.00060	U H	0.0017	0.00060	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,2-Dichloroethane	0.00050	U H	0.0017	0.00050	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,2-Dichloropropane	0.00071	U H	0.0017	0.00071	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1

Client Sample ID: 3-02-TS
Date Collected: 01/23/25 13:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-6
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00061	U H	0.0017	0.00061	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
1,4-Dichlorobenzene	0.00038	U H	0.0017	0.00038	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
2-Butanone (MEK)	0.00062	U H	0.0084	0.00062	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
2-Hexanone	0.0029	U H	0.0084	0.0029	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
4-Methyl-2-pentanone (MIBK)	0.0026	U H	0.0084	0.0026	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Acetone	0.0096	U H	0.010	0.0096	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Benzene	0.00043	U H	0.0017	0.00043	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Bromodichloromethane	0.00043	U H	0.0017	0.00043	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Bromoform	0.00071	U H	0.0017	0.00071	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Bromomethane	0.0017	U H *+	0.0033	0.0017	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Carbon disulfide	0.00045	U H	0.0017	0.00045	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Carbon tetrachloride	0.00065	U H	0.0017	0.00065	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Chlorobenzene	0.00030	U H	0.0017	0.00030	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Chlorobromomethane	0.00047	U H	0.0017	0.00047	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Chloroethane	0.00087	U H	0.0017	0.00087	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Chloroform	0.0016	U H	0.0017	0.0016	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Chloromethane	0.00073	U H	0.0017	0.00073	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
cis-1,2-Dichloroethene	0.00060	U H	0.0017	0.00060	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
cis-1,3-Dichloropropene	0.00046	U H	0.0017	0.00046	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Cyclohexane	0.00037	U H	0.0017	0.00037	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Dibromochloromethane	0.00032	U H	0.0017	0.00032	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Dichlorodifluoromethane	0.00057	U H	0.0017	0.00057	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Ethylbenzene	0.00033	U H	0.0017	0.00033	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Isopropylbenzene	0.00048	U H	0.0017	0.00048	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Methyl acetate	0.0072	U H	0.0084	0.0072	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Methyl tert-butyl ether	0.00086	U H	0.0017	0.00086	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Methylcyclohexane	0.00084	U H	0.0017	0.00084	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Methylene Chloride	0.0019	U H	0.0033	0.0019	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
m-Xylene & p-Xylene	0.00029	U H	0.0017	0.00029	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
o-Xylene	0.00032	U H	0.0017	0.00032	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Styrene	0.00047	U H	0.0017	0.00047	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Tetrachloroethene	0.00051	U H	0.0017	0.00051	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Toluene	0.00039	U H	0.0017	0.00039	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
trans-1,2-Dichloroethene	0.00041	U H	0.0017	0.00041	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
trans-1,3-Dichloropropene	0.00045	U H	0.0017	0.00045	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Trichloroethene	0.00054	U H	0.0017	0.00054	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Trichlorofluoromethane	0.00068	U H	0.0017	0.00068	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1
Vinyl chloride	0.00091	U H	0.0017	0.00091	mg/Kg	☼	01/24/25 18:56	03/05/25 02:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/24/25 18:56*	*03/05/25 02:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*	*01/24/25 18:56*	*03/05/25 02:04*	*1*
4-Bromofluorobenzene	*104*		*71 - 128*	*01/24/25 18:56*	*03/05/25 02:04*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 150*	*01/24/25 18:56*	*03/05/25 02:04*	*1*
Toluene-d8 (Surr)	*101*		*71 - 126*	*01/24/25 18:56*	*03/05/25 02:04*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 3-02-TS
Date Collected: 01/23/25 13:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-6
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
1,2,4-Trichlorobenzene	0.0085	U H	0.033	0.0085	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Atrazine	0.020	U H *+	0.13	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Benzidine	0.070	U H	0.33	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Benzo[a]pyrene	0.0088	U H	0.033	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1

Client Sample ID: 3-02-TS

Date Collected: 01/23/25 13:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-6

Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Dimethyl phthalate	0.075	U H	0.33	0.075	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Naphthalene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:39	03/04/25 19:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzeneacetic acid	*0.30*	*H J N*	*mg/Kg*	☼	*4.33*	*103-82-2*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.59*	*H J N*	*mg/Kg*	☼	*9.05*	*1740-19-8*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Unknown	*0.50*	*H J*	*mg/Kg*	☼	*9.19*	*N/A*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Unknown	*0.29*	*H J*	*mg/Kg*	☼	*9.48*	*N/A*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
17-Pentatriacontene	*0.33*	*H J N*	*mg/Kg*	☼	*9.84*	*6971-40-0*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Olean-12-ene	*0.62*	*H J N*	*mg/Kg*	☼	*11.15*	*471-68-1*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Urs-12-ene	*0.27*	*H J N*	*mg/Kg*	☼	*11.31*	*464-97-1*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Unknown	*2.3*	*H J*	*mg/Kg*	☼	*11.87*	*N/A*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Unknown	*2.2*	*H J*	*mg/Kg*	☼	*12.10*	*N/A*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Unknown	*0.95*	*H J*	*mg/Kg*	☼	*12.27*	*N/A*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Stigmast-4-en-3-one	*0.39*	*H J N*	*mg/Kg*	☼	*12.73*	*1058-61-3*	*03/04/25 08:39*	*03/04/25 19:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*24 - 137*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
2-Fluorobiphenyl	*85*		*38 - 128*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
2-Fluorophenol (Surr)	*90*		*31 - 133*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Nitrobenzene-d5 (Surr)	*86*		*31 - 120*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Phenol-d5 (Surr)	*84*		*35 - 132*	*03/04/25 08:39*	*03/04/25 19:19*	*1*
Terphenyl-d14 (Surr)	*90*		*44 - 147*	*03/04/25 08:39*	*03/04/25 19:19*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1

Client Sample ID: 3-02-TS

Date Collected: 01/23/25 13:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-6

Matrix: Solid
Percent Solids: 99.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:27	03/06/25 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*17 - 150*	*03/05/25 17:27*	*03/06/25 05:43*	*1*
DCB Decachlorobiphenyl	*76*		*17 - 150*	*03/05/25 17:27*	*03/06/25 05:43*	*1*
Tetrachloro-m-xylene	*104*		*21 - 150*	*03/05/25 17:27*	*03/06/25 05:43*	*1*
Tetrachloro-m-xylene	*102*		*21 - 150*	*03/05/25 17:27*	*03/06/25 05:43*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*20 - 150*	*03/05/25 17:21*	*03/06/25 09:40*	*1*
DCB Decachlorobiphenyl	*86*		*20 - 150*	*03/05/25 17:21*	*03/06/25 09:40*	*1*
Tetrachloro-m-xylene	*122*		*20 - 150*	*03/05/25 17:21*	*03/06/25 09:40*	*1*
Tetrachloro-m-xylene	*117*		*20 - 150*	*03/05/25 17:21*	*03/06/25 09:40*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**11**		2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total EPH	**11**		2.0	0.010	mg/Kg			03/07/25 11:23	1

Client Sample ID: 3-02-TS

Date Collected: 01/23/25 13:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-6

Matrix: Solid
Percent Solids: 99.5

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:48	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:48	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:48	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:48	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:48	1
C10-C12 Aromatics	**3.0**	**H**	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:48	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:48	1
C21-C36 Aromatic	**8.4**	**H**	8.0	8.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*40 - 140*	*03/06/25 10:35*	*03/06/25 21:48*	*1*
2-Fluorobiphenyl	*77*		*40 - 140*	*03/06/25 10:35*	*03/06/25 21:48*	*1*
2-Bromonaphthalene	*80*		*40 - 140*	*03/06/25 10:35*	*03/06/25 21:48*	*1*
1-Chlorooctadecane	*66*		*40 - 140*	*03/06/25 10:35*	*03/06/25 21:48*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**99.9**		18.4	5.1	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Arsenic	**0.15**	**J**	0.92	0.095	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Barium	**2.1**		1.8	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Calcium	37.5	U	92.2	37.5	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Chromium	0.84	U	1.8	0.84	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Cobalt	0.14	U	1.8	0.14	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Copper	**3.9**		1.8	0.34	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Iron	**180**		55.3	18.6	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Lead	**6.5**		0.55	0.18	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Magnesium	**9.5**	**J**	92.2	9.4	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Manganese	**1.3**	**J**	3.7	0.37	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Nickel	0.43	U	1.8	0.43	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Potassium	14.9	U	92.2	14.9	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Sodium	42.1	U	92.2	42.1	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Vanadium	**1.0**	**J**	1.8	0.19	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1
Zinc	2.8	U	7.4	2.8	mg/Kg	☼	03/05/25 07:04	03/05/25 15:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0075	U H	0.016	0.0075	mg/Kg	☼	03/07/25 00:47	03/07/25 05:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.48**	**H**	0.21	0.11	mg/Kg	☼	03/07/25 18:23	03/09/25 15:52	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.5**		1.0	1.0	%			01/27/25 07:12	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: DUP-03
Date Collected: 01/23/25 12:03
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-7
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,1,2,2-Tetrachloroethane	0.00025	U H	0.0012	0.00025	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U H	0.0012	0.00035	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,1,2-Trichloroethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,1-Dichloroethane	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,1-Dichloroethene	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,2,3-Trichlorobenzene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,2,4-Trichlorobenzene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,2-Dibromo-3-Chloropropane	0.00054	U H *-	0.0012	0.00054	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,2-Dibromoethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,2-Dichlorobenzene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,2-Dichloroethane	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,2-Dichloropropane	0.00049	U H	0.0012	0.00049	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,3-Dichlorobenzene	0.00043	U H	0.0012	0.00043	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
1,4-Dichlorobenzene	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
2-Butanone (MEK)	0.00043	U H	0.0058	0.00043	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
2-Hexanone	0.0020	U H	0.0058	0.0020	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
4-Methyl-2-pentanone (MIBK)	0.0018	U H	0.0058	0.0018	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Acetone	0.0067	U H	0.0070	0.0067	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Benzene	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Bromodichloromethane	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Bromoform	0.00050	U H	0.0012	0.00050	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Bromomethane	0.0012	U H *+	0.0023	0.0012	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Carbon disulfide	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Carbon tetrachloride	0.00045	U H	0.0012	0.00045	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Chlorobenzene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Chlorobromomethane	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Chloroethane	0.00061	U H	0.0012	0.00061	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Chloroform	0.0011	U H	0.0012	0.0011	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Chloromethane	0.00051	U H	0.0012	0.00051	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
cis-1,2-Dichloroethene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
cis-1,3-Dichloropropene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Cyclohexane	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Dibromochloromethane	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Dichlorodifluoromethane	0.00039	U H	0.0012	0.00039	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Ethylbenzene	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Isopropylbenzene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Methyl acetate	0.0050	U H	0.0058	0.0050	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Methyl tert-butyl ether	0.00060	U H	0.0012	0.00060	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Methylcyclohexane	0.00058	U H	0.0012	0.00058	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Methylene Chloride	0.0013	U H	0.0023	0.0013	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
m-Xylene & p-Xylene	0.00020	U H	0.0012	0.00020	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
o-Xylene	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Styrene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Tetrachloroethene	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Toluene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
trans-1,2-Dichloroethene	0.00029	U H	0.0012	0.00029	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
trans-1,3-Dichloropropene	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Trichloroethene	0.00037	U H	0.0012	0.00037	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1

Client Sample ID: DUP-03
Date Collected: 01/23/25 12:03
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-7
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00047	U H	0.0012	0.00047	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1
Vinyl chloride	0.00064	U H	0.0012	0.00064	mg/Kg	☼	01/24/25 18:56	03/05/25 02:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/24/25 18:56*	*03/05/25 02:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*	*01/24/25 18:56*	*03/05/25 02:27*	*1*
4-Bromofluorobenzene	*108*		*71 - 128*	*01/24/25 18:56*	*03/05/25 02:27*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*01/24/25 18:56*	*03/05/25 02:27*	*1*
Toluene-d8 (Surr)	*106*		*71 - 126*	*01/24/25 18:56*	*03/05/25 02:27*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
1,2,4-Trichlorobenzene	0.0085	U H	0.033	0.0085	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Acenaphthene	0.0094	U H	0.33	0.0094	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Atrazine	0.020	U H *+	0.13	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Benzidine	0.069	U H	0.33	0.069	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1

Client Sample ID: DUP-03
Date Collected: 01/23/25 12:03
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-7
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Benzo[a]pyrene	0.0088	U H	0.033	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Dimethyl phthalate	0.075	U H	0.33	0.075	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Di-n-butyl phthalate	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Naphthalene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1
Pyrene	0.0082	U H	0.33	0.0082	mg/Kg	☼	03/04/25 08:39	03/04/25 19:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
n-Hexadecanoic acid	*0.61*	*H J N*	*mg/Kg*	☼	*7.40*	*57-10-3*	*03/04/25 08:39*	*03/04/25 19:38*	*1*
Octadec-9-enoic acid	*0.28*	*H J N*	*mg/Kg*	☼	*8.01*	*1000190-13-7*	*03/04/25 08:39*	*03/04/25 19:38*	*1*
Octadecanoic acid	*0.33*	*H J N*	*mg/Kg*	☼	*8.09*	*57-11-4*	*03/04/25 08:39*	*03/04/25 19:38*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.38*	*H J N*	*mg/Kg*	☼	*9.04*	*1740-19-8*	*03/04/25 08:39*	*03/04/25 19:38*	*1*
Unknown	*0.35*	*H J*	*mg/Kg*	☼	*10.17*	*N/A*	*03/04/25 08:39*	*03/04/25 19:38*	*1*
(-)-Nortrachelogenin	*0.45*	*H J N*	*mg/Kg*	☼	*11.43*	*34444-37-6*	*03/04/25 08:39*	*03/04/25 19:38*	*1*
2,2,4a,6a,8a,9,12b,14a-Octamethyl-1,2,3,4,4a,5,6,6a,6b,7,8,8	*0.36*	*H J N*	*mg/Kg*	☼	*11.86*	*53013-35-7*	*03/04/25 08:39*	*03/04/25 19:38*	*1*
Unknown	*0.43*	*H J*	*mg/Kg*	☼	*12.09*	*N/A*	*03/04/25 08:39*	*03/04/25 19:38*	*1*

Client Sample ID: DUP-03

Date Collected: 01/23/25 12:03
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-7

Matrix: Solid
Percent Solids: 99.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		24 - 137	03/04/25 08:39	03/04/25 19:38	1
2-Fluorobiphenyl	82		38 - 128	03/04/25 08:39	03/04/25 19:38	1
2-Fluorophenol (Surr)	91		31 - 133	03/04/25 08:39	03/04/25 19:38	1
Nitrobenzene-d5 (Surr)	85		31 - 120	03/04/25 08:39	03/04/25 19:38	1
Phenol-d5 (Surr)	86		35 - 132	03/04/25 08:39	03/04/25 19:38	1
Terphenyl-d14 (Surr)	86		44 - 147	03/04/25 08:39	03/04/25 19:38	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:27	03/06/25 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		17 - 150	03/05/25 17:27	03/06/25 05:56	1
DCB Decachlorobiphenyl	62		17 - 150	03/05/25 17:27	03/06/25 05:56	1
Tetrachloro-m-xylene	82		21 - 150	03/05/25 17:27	03/06/25 05:56	1
Tetrachloro-m-xylene	82		21 - 150	03/05/25 17:27	03/06/25 05:56	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		20 - 150	03/05/25 17:21	03/06/25 09:57	1

Client Sample ID: DUP-03

Date Collected: 01/23/25 12:03
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-7

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*62*		*20 - 150*	*03/05/25 17:21*	*03/06/25 09:57*	*1*
Tetrachloro-m-xylene	*87*		*20 - 150*	*03/05/25 17:21*	*03/06/25 09:57*	*1*
Tetrachloro-m-xylene	*87*		*20 - 150*	*03/05/25 17:21*	*03/06/25 09:57*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**3.5**		2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total EPH	**3.5**		2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:04	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:04	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:04	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:04	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:04	1
C10-C12 Aromatics	**3.5**	**H**	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:04	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:04	1
C21-C36 Aromatic	8.0	U H	8.0	8.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*71*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:04*	*1*
2-Fluorobiphenyl	*78*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:04*	*1*
2-Bromonaphthalene	*82*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:04*	*1*
1-Chlorooctadecane	*62*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:04*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**62.9**		17.9	4.9	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Arsenic	**0.093**	**J**	0.90	0.092	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Barium	**1.4**	**J**	1.8	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Calcium	36.5	U	89.7	36.5	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Chromium	0.81	U	1.8	0.81	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Cobalt	0.13	U	1.8	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Copper	**2.7**		1.8	0.33	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Iron	**118**		53.8	18.1	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Lead	**4.6**		0.54	0.18	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Magnesium	**10.2**	**J**	89.7	9.1	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Manganese	**1.3**	**J**	3.6	0.36	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Nickel	0.42	U	1.8	0.42	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Potassium	14.5	U	89.7	14.5	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Sodium	41.0	U	89.7	41.0	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1
Vanadium	**0.75**	**J**	1.8	0.18	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1

Client Sample ID: DUP-03

Lab Sample ID: 460-319229-7
Date Collected: 01/23/25 12:03
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	03/05/25 07:04	03/05/25 15:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0073	U H	0.016	0.0073	mg/Kg	☼	03/07/25 00:47	03/07/25 05:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.40**	**H**	0.22	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 15:53	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.6**		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 3-02-CS

Lab Sample ID: 460-319229-8
Date Collected: 01/23/25 13:50
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,1,2,2-Tetrachloroethane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,1,2-Trichloroethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,1-Dichloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,1-Dichloroethene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,2,3-Trichlorobenzene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,2,4-Trichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,2-Dibromo-3-Chloropropane	0.00052	U H *-	0.0011	0.00052	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,2-Dibromoethane	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,2-Dichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,2-Dichloroethane	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,2-Dichloropropane	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,3-Dichlorobenzene	0.00042	U H	0.0011	0.00042	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
1,4-Dichlorobenzene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
2-Butanone (MEK)	0.00042	U H	0.0057	0.00042	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
2-Hexanone	0.0020	U H	0.0057	0.0020	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
4-Methyl-2-pentanone (MIBK)	0.0018	U H	0.0057	0.0018	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Acetone	0.0065	U H	0.0068	0.0065	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Benzene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Bromodichloromethane	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Bromoform	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Bromomethane	0.0011	U H *+	0.0023	0.0011	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Carbon disulfide	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Carbon tetrachloride	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Chlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Chlorobromomethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Chloroethane	0.00060	U H	0.0011	0.00060	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Chloroform	0.0011	U H	0.0011	0.0011	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Chloromethane	0.00050	U H	0.0011	0.00050	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
cis-1,2-Dichloroethene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
cis-1,3-Dichloropropene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1

Client Sample ID: 3-02-CS
Date Collected: 01/23/25 13:50
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-8
Matrix: Solid
Percent Solids: 99.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Dibromochloromethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Dichlorodifluoromethane	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Ethylbenzene	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Isopropylbenzene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Methyl acetate	0.0049	U H	0.0057	0.0049	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Methyl tert-butyl ether	0.00058	U H	0.0011	0.00058	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Methylcyclohexane	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Methylene Chloride	0.0013	U H	0.0023	0.0013	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
m-Xylene & p-Xylene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
o-Xylene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Styrene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Tetrachloroethene	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Toluene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
trans-1,2-Dichloroethene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
trans-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Trichloroethene	0.00037	U H	0.0011	0.00037	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Trichlorofluoromethane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1
Vinyl chloride	0.00062	U H	0.0011	0.00062	mg/Kg	☼	01/24/25 18:57	03/05/25 02:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/24/25 18:57*	*03/05/25 02:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*	*01/24/25 18:57*	*03/05/25 02:50*	*1*
4-Bromofluorobenzene	*106*		*71 - 128*	*01/24/25 18:57*	*03/05/25 02:50*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 150*	*01/24/25 18:57*	*03/05/25 02:50*	*1*
Toluene-d8 (Surr)	*98*		*71 - 126*	*01/24/25 18:57*	*03/05/25 02:50*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
1,2,4-Trichlorobenzene	0.0085	U H	0.033	0.0085	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
1,2-Dichlorobenzene	0.0056	U H	0.33	0.0056	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2,4,6-Trichlorophenol	0.042	U H	0.13	0.042	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2,4-Dimethylphenol	0.039	U H	0.33	0.039	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1

Client Sample ID: 3-02-CS
Date Collected: 01/23/25 13:50
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-8
Matrix: Solid
Percent Solids: 99.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
3-Nitroaniline	0.078	U H	0.33	0.078	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
4,6-Dinitro-2-methylphenol	0.13	U H	0.27	0.13	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Acenaphthene	0.0094	U H	0.33	0.0094	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Atrazine	0.019	U H *+	0.13	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Benzidine	0.069	U H	0.33	0.069	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Benzo[a]pyrene	0.0088	U H	0.033	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Bis(2-ethylhexyl) phthalate	0.017	U H	0.33	0.017	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Caprolactam	0.051	U H	0.33	0.051	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Dimethyl phthalate	0.075	U H	0.33	0.075	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Di-n-butyl phthalate	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Hexachlorobutadiene	0.0070	U H	0.067	0.0070	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Naphthalene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1

Client Sample ID: 3-02-CS

Date Collected: 01/23/25 13:50
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-8

Matrix: Solid
Percent Solids: 99.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Phenanthrene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1
Pyrene	0.0082	U H	0.33	0.0082	mg/Kg	☼	03/04/25 08:39	03/04/25 18:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 18:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*24 - 137*	*03/04/25 08:39*	*03/04/25 18:01*	*1*
2-Fluorobiphenyl	*83*		*38 - 128*	*03/04/25 08:39*	*03/04/25 18:01*	*1*
2-Fluorophenol (Surr)	*87*		*31 - 133*	*03/04/25 08:39*	*03/04/25 18:01*	*1*
Nitrobenzene-d5 (Surr)	*86*		*31 - 120*	*03/04/25 08:39*	*03/04/25 18:01*	*1*
Phenol-d5 (Surr)	*77*		*35 - 132*	*03/04/25 08:39*	*03/04/25 18:01*	*1*
Terphenyl-d14 (Surr)	*87*		*44 - 147*	*03/04/25 08:39*	*03/04/25 18:01*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:27	03/06/25 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*17 - 150*	*03/05/25 17:27*	*03/06/25 06:09*	*1*
DCB Decachlorobiphenyl	*73*		*17 - 150*	*03/05/25 17:27*	*03/06/25 06:09*	*1*
Tetrachloro-m-xylene	*94*		*21 - 150*	*03/05/25 17:27*	*03/06/25 06:09*	*1*
Tetrachloro-m-xylene	*94*		*21 - 150*	*03/05/25 17:27*	*03/06/25 06:09*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1

Client Sample ID: 3-02-CS
Date Collected: 01/23/25 13:50
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-8
Matrix: Solid
Percent Solids: 99.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*20 - 150*	*03/05/25 17:21*	*03/06/25 10:47*	*1*
DCB Decachlorobiphenyl	*73*		*20 - 150*	*03/05/25 17:21*	*03/06/25 10:47*	*1*
Tetrachloro-m-xylene	*104*		*20 - 150*	*03/05/25 17:21*	*03/06/25 10:47*	*1*
Tetrachloro-m-xylene	*101*		*20 - 150*	*03/05/25 17:21*	*03/06/25 10:47*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:20	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:20	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:20	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:20	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:20	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:20	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:20	1
C21-C36 Aromatic	8.0	U H	8.0	8.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:20*	*1*
2-Fluorobiphenyl	*86*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:20*	*1*
2-Bromonaphthalene	*89*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:20*	*1*
1-Chlorooctadecane	*67*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:20*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**641**		18.4	5.1	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Arsenic	**0.20**	**J**	0.92	0.095	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Barium	**1.0**	**J**	1.8	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Calcium	37.5	U	92.0	37.5	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Chromium	**1.5**	**J**	1.8	0.84	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Cobalt	0.14	U	1.8	0.14	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Copper	**0.99**	**J**	1.8	0.34	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Iron	**542**		55.2	18.6	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Lead	**0.94**		0.55	0.18	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Magnesium	**23.5**	**J**	92.0	9.4	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1

Client Sample ID: 3-02-CS

Lab Sample ID: 460-319229-8
Date Collected: 01/23/25 13:50
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.7

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**6.9**		3.7	0.37	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Nickel	0.43	U	1.8	0.43	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Potassium	**28.8**	**J**	92.0	14.9	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Sodium	42.1	U	92.0	42.1	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Vanadium	**1.3**	**J**	1.8	0.19	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1
Zinc	2.8	U	7.4	2.8	mg/Kg	☼	03/05/25 07:04	03/05/25 15:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0075	U H	0.016	0.0075	mg/Kg	☼	03/07/25 00:47	03/07/25 05:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 15:54	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.7**		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 3-03-CS-4

Lab Sample ID: 460-319229-9
Date Collected: 01/23/25 14:10
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,2-Dibromo-3-Chloropropane	0.00048	U *+	0.0011	0.00048	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,2-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,2-Dichloroethane	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,3-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
2-Butanone (MEK)	0.00039	U	0.0053	0.00039	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
2-Hexanone	0.0018	U	0.0053	0.0018	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
4-Methyl-2-pentanone (MIBK)	0.0016	U *-	0.0053	0.0016	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Acetone	0.0060	U	0.0063	0.0060	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Benzene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Bromodichloromethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Bromomethane	0.0011	U	0.0021	0.0011	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Carbon disulfide	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1

Client Sample ID: 3-03-CS-4

Date Collected: 01/23/25 14:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-9

Matrix: Solid
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Chlorobromomethane	0.00030	U *+	0.0011	0.00030	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Chloroethane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Chloromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Cyclohexane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Dibromochloromethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Methyl acetate	0.0045	U	0.0053	0.0045	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Methyl tert-butyl ether	0.00054	U	0.0011	0.00054	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Methylcyclohexane	0.00053	U	0.0011	0.00053	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
m-Xylene & p-Xylene	0.00018	U	0.0011	0.00018	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
o-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Styrene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Tetrachloroethene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
trans-1,3-Dichloropropene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1
Vinyl chloride	0.00058	U	0.0011	0.00058	mg/Kg	☼	01/24/25 18:58	01/29/25 02:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/24/25 18:58*	*01/29/25 02:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*	*01/24/25 18:58*	*01/29/25 02:12*	*1*
4-Bromofluorobenzene	*88*		*71 - 128*	*01/24/25 18:58*	*01/29/25 02:12*	*1*
Dibromofluoromethane (Surr)	*115*		*50 - 150*	*01/24/25 18:58*	*01/29/25 02:12*	*1*
Toluene-d8 (Surr)	*92*		*71 - 126*	*01/24/25 18:58*	*01/29/25 02:12*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1

Client Sample ID: 3-03-CS-4
Date Collected: 01/23/25 14:10
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Lab Sample ID: 460-319229-9
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1

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Lab Sample ID: 460-319229-9
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/27/25 11:40	01/28/25 07:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*1.4*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/27/25 11:40*	*01/28/25 07:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*24 - 137*	*01/27/25 11:40*	*01/28/25 07:25*	*1*
2-Fluorobiphenyl	*74*		*38 - 128*	*01/27/25 11:40*	*01/28/25 07:25*	*1*
2-Fluorophenol (Surr)	*64*		*31 - 133*	*01/27/25 11:40*	*01/28/25 07:25*	*1*
Nitrobenzene-d5 (Surr)	*67*		*31 - 120*	*01/27/25 11:40*	*01/28/25 07:25*	*1*
Phenol-d5 (Surr)	*65*		*35 - 132*	*01/27/25 11:40*	*01/28/25 07:25*	*1*
Terphenyl-d14 (Surr)	*72*		*44 - 147*	*01/27/25 11:40*	*01/28/25 07:25*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Endrin	0.00097	U	0.0067	0.00097	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 09:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*17 - 150*	*01/25/25 18:37*	*01/27/25 09:48*	*1*
DCB Decachlorobiphenyl	*91*		*17 - 150*	*01/25/25 18:37*	*01/27/25 09:48*	*1*

Client Sample ID: 3-03-CS-4
Date Collected: 01/23/25 14:10
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Lab Sample ID: 460-319229-9
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*21 - 150*	*01/25/25 18:37*	*01/27/25 09:48*	*1*
Tetrachloro-m-xylene	*72*		*21 - 150*	*01/25/25 18:37*	*01/27/25 09:48*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:38*	*1*
DCB Decachlorobiphenyl	*98*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:38*	*1*
Tetrachloro-m-xylene	*84*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:38*	*1*
Tetrachloro-m-xylene	*80*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:38*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:52	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:52	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:52	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:52	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:52	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:52	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:52	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/27/25 10:06	01/28/25 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:52*	*1*
2-Fluorobiphenyl	*89*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:52*	*1*
2-Bromonaphthalene	*90*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:52*	*1*
1-Chlorooctadecane	*105*		*40 - 140*	*01/27/25 10:06*	*01/28/25 17:52*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1020**		18.0	4.9	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Arsenic	**0.34**	**J**	0.90	0.092	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1

Client Sample ID: 3-03-CS-4

Lab Sample ID: 460-319229-9
Date Collected: 01/23/25 14:10
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**1.1**	**J**	1.8	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Calcium	36.5	U	89.8	36.5	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Chromium	**2.6**		1.8	0.82	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Cobalt	0.13	U	1.8	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Copper	**0.71**	**J**	1.8	0.33	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Iron	**948**		53.9	18.1	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Lead	**1.2**		0.54	0.18	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Magnesium	**22.7**	**J**	89.8	9.2	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Manganese	**7.0**		3.6	0.36	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Nickel	0.42	U	1.8	0.42	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Potassium	**28.5**	**J**	89.8	14.5	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Sodium	41.0	U	89.8	41.0	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Vanadium	**2.0**		1.8	0.18	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	01/28/25 06:35	01/28/25 16:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	U	0.016	0.0077	mg/Kg	☼	01/27/25 01:29	01/27/25 06:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/28/25 09:12	01/28/25 12:48	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.5**		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 3-03-CS-8

Lab Sample ID: 460-319229-10
Date Collected: 01/23/25 14:20
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.00099	0.00023	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00099	0.00021	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.00099	0.00030	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,1,2-Trichloroethane	0.00018	U	0.00099	0.00018	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,1-Dichloroethane	0.00020	U	0.00099	0.00020	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,1-Dichloroethene	0.00022	U	0.00099	0.00022	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,2,3-Trichlorobenzene	0.00018	U	0.00099	0.00018	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,2,4-Trichlorobenzene	0.00035	U	0.00099	0.00035	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,2-Dibromo-3-Chloropropane	0.00045	U *+	0.00099	0.00045	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,2-Dibromoethane	0.00018	U	0.00099	0.00018	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,2-Dichlorobenzene	0.00036	U	0.00099	0.00036	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,2-Dichloroethane	0.00029	U	0.00099	0.00029	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,2-Dichloropropane	0.00042	U	0.00099	0.00042	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
1,3-Dichlorobenzene	0.00036	U	0.00099	0.00036	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1

Client Sample ID: 3-03-CS-8

Date Collected: 01/23/25 14:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-10

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00022	U	0.00099	0.00022	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
2-Butanone (MEK)	0.00036	U	0.0049	0.00036	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
2-Hexanone	0.0017	U	0.0049	0.0017	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
4-Methyl-2-pentanone (MIBK)	0.0015	U *-	0.0049	0.0015	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Acetone	**0.049**		0.0059	0.0057	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Benzene	0.00026	U	0.00099	0.00026	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Bromodichloromethane	0.00025	U	0.00099	0.00025	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Bromoform	0.00042	U	0.00099	0.00042	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Bromomethane	0.00099	U	0.0020	0.00099	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Carbon disulfide	0.00026	U	0.00099	0.00026	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Carbon tetrachloride	0.00038	U	0.00099	0.00038	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Chlorobenzene	0.00017	U	0.00099	0.00017	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Chlorobromomethane	0.00028	U *+	0.00099	0.00028	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Chloroethane	0.00052	U	0.00099	0.00052	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Chloroform	0.00096	U	0.00099	0.00096	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Chloromethane	0.00043	U	0.00099	0.00043	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
cis-1,2-Dichloroethene	0.00035	U	0.00099	0.00035	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
cis-1,3-Dichloropropene	0.00027	U	0.00099	0.00027	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Cyclohexane	0.00022	U	0.00099	0.00022	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Dibromochloromethane	0.00019	U	0.00099	0.00019	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Dichlorodifluoromethane	0.00033	U	0.00099	0.00033	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Ethylbenzene	0.00020	U	0.00099	0.00020	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Isopropylbenzene	0.00028	U	0.00099	0.00028	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Methyl acetate	0.0043	U	0.0049	0.0043	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Methyl tert-butyl ether	0.00051	U	0.00099	0.00051	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Methylcyclohexane	0.00049	U	0.00099	0.00049	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
m-Xylene & p-Xylene	0.00017	U	0.00099	0.00017	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
o-Xylene	0.00019	U	0.00099	0.00019	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Styrene	0.00027	U	0.00099	0.00027	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Tetrachloroethene	0.00030	U	0.00099	0.00030	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Toluene	0.00023	U	0.00099	0.00023	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
trans-1,2-Dichloroethene	0.00024	U	0.00099	0.00024	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
trans-1,3-Dichloropropene	0.00026	U	0.00099	0.00026	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Trichloroethene	0.00032	U	0.00099	0.00032	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Trichlorofluoromethane	0.00040	U	0.00099	0.00040	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1
Vinyl chloride	0.00054	U	0.00099	0.00054	mg/Kg	☼	01/24/25 18:59	01/29/25 02:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/24/25 18:59*	*01/29/25 02:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 138*	*01/24/25 18:59*	*01/29/25 02:35*	*1*
4-Bromofluorobenzene	*86*		*71 - 128*	*01/24/25 18:59*	*01/29/25 02:35*	*1*
Dibromofluoromethane (Surr)	*113*		*50 - 150*	*01/24/25 18:59*	*01/29/25 02:35*	*1*
Toluene-d8 (Surr)	*89*		*71 - 126*	*01/24/25 18:59*	*01/29/25 02:35*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1

Client Sample ID: 3-03-CS-8
Date Collected: 01/23/25 14:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-10
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1

Client Sample ID: 3-03-CS-8

Date Collected: 01/23/25 14:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-10

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/27/25 11:40	01/28/25 07:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*1.4*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/27/25 11:40*	*01/28/25 07:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*39*		*24 - 137*	*01/27/25 11:40*	*01/28/25 07:44*	*1*
2-Fluorobiphenyl	*66*		*38 - 128*	*01/27/25 11:40*	*01/28/25 07:44*	*1*
2-Fluorophenol (Surr)	*58*		*31 - 133*	*01/27/25 11:40*	*01/28/25 07:44*	*1*
Nitrobenzene-d5 (Surr)	*61*		*31 - 120*	*01/27/25 11:40*	*01/28/25 07:44*	*1*
Phenol-d5 (Surr)	*60*		*35 - 132*	*01/27/25 11:40*	*01/28/25 07:44*	*1*
Terphenyl-d14 (Surr)	*69*		*44 - 147*	*01/27/25 11:40*	*01/28/25 07:44*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1

Client Sample ID: 3-03-CS-8
Date Collected: 01/23/25 14:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-10
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*17 - 150*	*01/25/25 18:37*	*01/27/25 10:00*	*1*
DCB Decachlorobiphenyl	*110*		*17 - 150*	*01/25/25 18:37*	*01/27/25 10:00*	*1*
Tetrachloro-m-xylene	*73*		*21 - 150*	*01/25/25 18:37*	*01/27/25 10:00*	*1*
Tetrachloro-m-xylene	*76*		*21 - 150*	*01/25/25 18:37*	*01/27/25 10:00*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:55*	*1*
DCB Decachlorobiphenyl	*99*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:55*	*1*
Tetrachloro-m-xylene	*80*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:55*	*1*
Tetrachloro-m-xylene	*78*		*20 - 150*	*01/25/25 18:34*	*01/27/25 16:55*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:08	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:08	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:08	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:08	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:08	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:08	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:08	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:08*	*1*

Client Sample ID: 3-03-CS-8

Lab Sample ID: 460-319229-10

Date Collected: 01/23/25 14:20
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.6

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:08*	*1*
2-Bromonaphthalene	*83*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:08*	*1*
1-Chlorooctadecane	*100*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:08*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1110**		19.1	5.3	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Antimony	0.14	U	0.96	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Arsenic	**2.5**		0.96	0.099	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Barium	**5.1**		1.9	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Beryllium	0.055	U	0.38	0.055	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Cadmium	0.11	U	0.96	0.11	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Calcium	38.9	U	95.6	38.9	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Chromium	**7.6**		1.9	0.87	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Copper	**1.4**	**J**	1.9	0.35	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Iron	**4150**		57.4	19.3	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Lead	**1.3**		0.57	0.19	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Magnesium	**25.5**	**J**	95.6	9.8	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Manganese	**1.5**	**J**	3.8	0.39	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Nickel	0.45	U	1.9	0.45	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Potassium	**63.2**	**J**	95.6	15.5	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Selenium	**0.16**	**J**	1.2	0.12	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Silver	0.085	U	0.38	0.085	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Sodium	43.7	U	95.6	43.7	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Vanadium	**5.3**		1.9	0.20	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1
Zinc	2.9	U	7.7	2.9	mg/Kg	☼	01/28/25 06:35	01/28/25 16:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0074	U	0.016	0.0074	mg/Kg	☼	01/27/25 01:29	01/27/25 06:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	01/28/25 09:12	01/28/25 12:49	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.6**		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 3-01-TS

Lab Sample ID: 460-319229-11

Date Collected: 01/23/25 14:30
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00035	U H	0.0015	0.00035	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,1,2,2-Tetrachloroethane	0.00032	U H	0.0015	0.00032	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00045	U H	0.0015	0.00045	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,1,2-Trichloroethane	0.00027	U H	0.0015	0.00027	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,1-Dichloroethane	0.00031	U H	0.0015	0.00031	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1

Client Sample ID: 3-01-TS
Date Collected: 01/23/25 14:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-11
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00034	U H	0.0015	0.00034	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,2,3-Trichlorobenzene	0.00027	U H	0.0015	0.00027	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,2,4-Trichlorobenzene	0.00054	U H	0.0015	0.00054	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,2-Dibromo-3-Chloropropane	0.00069	U H *-	0.0015	0.00069	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,2-Dibromoethane	0.00027	U H	0.0015	0.00027	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,2-Dichlorobenzene	0.00054	U H	0.0015	0.00054	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,2-Dichloroethane	0.00045	U H	0.0015	0.00045	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,2-Dichloropropane	0.00064	U H	0.0015	0.00064	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,3-Dichlorobenzene	0.00055	U H	0.0015	0.00055	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
1,4-Dichlorobenzene	0.00034	U H	0.0015	0.00034	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
2-Butanone (MEK)	0.00055	U H	0.0075	0.00055	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
2-Hexanone	0.0026	U H	0.0075	0.0026	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
4-Methyl-2-pentanone (MIBK)	0.0023	U H	0.0075	0.0023	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Acetone	0.0086	U H	0.0090	0.0086	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Benzene	0.00039	U H	0.0015	0.00039	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Bromodichloromethane	0.00039	U H	0.0015	0.00039	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Bromoform	0.00064	U H	0.0015	0.00064	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Bromomethane	0.0015	U *+ H	0.0030	0.0015	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Carbon disulfide	0.00040	U H	0.0015	0.00040	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Carbon tetrachloride	0.00058	U H	0.0015	0.00058	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Chlorobenzene	0.00027	U H	0.0015	0.00027	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Chlorobromomethane	0.00042	U H	0.0015	0.00042	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Chloroethane	0.00078	U H	0.0015	0.00078	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Chloroform	0.0015	U H	0.0015	0.0015	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Chloromethane	0.00065	U H	0.0015	0.00065	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
cis-1,2-Dichloroethene	0.00054	U H	0.0015	0.00054	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
cis-1,3-Dichloropropene	0.00041	U H	0.0015	0.00041	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Cyclohexane	0.00033	U H	0.0015	0.00033	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Dibromochloromethane	0.00029	U H	0.0015	0.00029	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Dichlorodifluoromethane	0.00051	U H	0.0015	0.00051	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Ethylbenzene	0.00030	U H	0.0015	0.00030	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Isopropylbenzene	0.00043	U H	0.0015	0.00043	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Methyl acetate	0.0065	U H	0.0075	0.0065	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Methyl tert-butyl ether	0.00077	U H	0.0015	0.00077	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Methylcyclohexane	0.00075	U H	0.0015	0.00075	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Methylene Chloride	0.0017	U H	0.0030	0.0017	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
m-Xylene & p-Xylene	0.00026	U H	0.0015	0.00026	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
o-Xylene	0.00029	U H	0.0015	0.00029	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Styrene	0.00042	U H	0.0015	0.00042	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Tetrachloroethene	0.00046	U H	0.0015	0.00046	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Toluene	0.00035	U H	0.0015	0.00035	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
trans-1,2-Dichloroethene	0.00037	U H	0.0015	0.00037	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
trans-1,3-Dichloropropene	0.00040	U H	0.0015	0.00040	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Trichloroethene	0.00048	U H	0.0015	0.00048	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Trichlorofluoromethane	0.00061	U H	0.0015	0.00061	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1
Vinyl chloride	0.00082	U H	0.0015	0.00082	mg/Kg	☼	01/24/25 19:00	03/05/25 03:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Methyl-2-propanol	*87*	*H*	*ug/Kg*	☼	*3.42*	*75-65-0*	*01/24/25 19:00*	*03/05/25 03:13*	*1*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/24/25 19:00*	*03/05/25 03:13*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 3-01-TS

Date Collected: 01/23/25 14:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-11

Matrix: Solid
Percent Solids: 99.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*65 - 138*	*01/24/25 19:00*	*03/05/25 03:13*	*1*
4-Bromofluorobenzene	*129*	*S1+*	*71 - 128*	*01/24/25 19:00*	*03/05/25 03:13*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*	*01/24/25 19:00*	*03/05/25 03:13*	*1*
Toluene-d8 (Surr)	*108*		*71 - 126*	*01/24/25 19:00*	*03/05/25 03:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
1,2,4-Trichlorobenzene	0.0085	U H	0.033	0.0085	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
3,3'-Dichlorobenzidine	0.050	U H F1	0.13	0.050	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
3-Nitroaniline	0.079	U H F2	0.33	0.079	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
4-Nitroaniline	0.038	U H F1 F2	0.33	0.038	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Atrazine	0.020	U H *+	0.13	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Benzidine	0.070	U H F1	0.33	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1

Client Sample ID: 3-01-TS
Date Collected: 01/23/25 14:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-11
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Fluoranthene	**0.012**	**J H**	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Naphthalene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:39	03/04/25 20:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tetradecanoic acid	*0.79*	*H J N*	*mg/Kg*	☼	*6.65*	*544-63-8*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
n-Hexadecanoic acid	*0.71*	*H J N*	*mg/Kg*	☼	*7.41*	*57-10-3*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Unknown	*1.1*	*H J*	*mg/Kg*	☼	*8.04*	*N/A*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Octadecanoic acid	*0.60*	*H J N*	*mg/Kg*	☼	*8.10*	*57-11-4*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Octadecanal	*0.46*	*H J N*	*mg/Kg*	☼	*8.95*	*638-66-4*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Unknown	*0.77*	*H J*	*mg/Kg*	☼	*8.98*	*N/A*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*1.8*	*H J N*	*mg/Kg*	☼	*9.07*	*1740-19-8*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Unknown	*0.43*	*H J*	*mg/Kg*	☼	*9.15*	*N/A*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Docosanoic acid	*0.71*	*H J N*	*mg/Kg*	☼	*9.38*	*112-85-6*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Unknown	*1.1*	*H J*	*mg/Kg*	☼	*9.47*	*N/A*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Cyclotetracosane	*0.84*	*H J N*	*mg/Kg*	☼	*9.80*	*297-03-0*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Unknown	*0.83*	*H J*	*mg/Kg*	☼	*10.48*	*N/A*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Hexacosanoic acid	*0.40*	*H J N*	*mg/Kg*	☼	*10.71*	*506-46-7*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
Unknown	*5.3*	*H J*	*mg/Kg*	☼	*11.17*	*N/A*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
1,22-Docosanediol	*0.57*	*H J N*	*mg/Kg*	☼	*11.67*	*22513-81-1*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
2,2,4a,6a,8a,9,12b,14a-Octamethyl-1,2,3,4,4a,5,6,6a,6b,7,8,8	*1.3*	*H J N*	*mg/Kg*	☼	*11.87*	*53013-35-7*	*03/04/25 08:39*	*03/04/25 20:16*	*1*
1-Hexacosanol	*0.57*	*H J N*	*mg/Kg*	☼	*11.95*	*506-52-5*	*03/04/25 08:39*	*03/04/25 20:16*	*1*

Client Sample ID: 3-01-TS
Date Collected: 01/23/25 14:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-11
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
.beta.-Sitosterol	5.1	H J N	mg/Kg	☼	12.11	83-46-5	03/04/25 08:39	03/04/25 20:16	1
Unknown	0.89	H J	mg/Kg	☼	12.27	N/A	03/04/25 08:39	03/04/25 20:16	1
Stigmast-4-en-3-one	2.2	H J N	mg/Kg	☼	12.75	1058-61-3	03/04/25 08:39	03/04/25 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		24 - 137	03/04/25 08:39	03/04/25 20:16	1
2-Fluorobiphenyl	80		38 - 128	03/04/25 08:39	03/04/25 20:16	1
2-Fluorophenol (Surr)	73		31 - 133	03/04/25 08:39	03/04/25 20:16	1
Nitrobenzene-d5 (Surr)	75		31 - 120	03/04/25 08:39	03/04/25 20:16	1
Phenol-d5 (Surr)	70		35 - 132	03/04/25 08:39	03/04/25 20:16	1
Terphenyl-d14 (Surr)	83		44 - 147	03/04/25 08:39	03/04/25 20:16	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:27	03/06/25 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		17 - 150	03/05/25 17:27	03/06/25 06:22	1
DCB Decachlorobiphenyl	79		17 - 150	03/05/25 17:27	03/06/25 06:22	1
Tetrachloro-m-xylene	98		21 - 150	03/05/25 17:27	03/06/25 06:22	1
Tetrachloro-m-xylene	97		21 - 150	03/05/25 17:27	03/06/25 06:22	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1

Client Sample ID: 3-01-TS

Date Collected: 01/23/25 14:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-11

Matrix: Solid
Percent Solids: 99.3

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*20 - 150*	*03/05/25 17:21*	*03/06/25 11:04*	*1*
DCB Decachlorobiphenyl	*69*		*20 - 150*	*03/05/25 17:21*	*03/06/25 11:04*	*1*
Tetrachloro-m-xylene	*96*		*20 - 150*	*03/05/25 17:21*	*03/06/25 11:04*	*1*
Tetrachloro-m-xylene	*94*		*20 - 150*	*03/05/25 17:21*	*03/06/25 11:04*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**18**		2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total EPH	**18**		2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H F1	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:33	1
C9-C12 Aliphatics	3.0	U H F1	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:33	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:33	1
C21-C40 Aliphatics	7.0	U H F1	7.0	7.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:33	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:33	1
C10-C12 Aromatics	**2.6**	**H F1**	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:33	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:33	1
C21-C36 Aromatic	**15**	**H F1**	8.0	8.0	mg/Kg	☼	03/06/25 10:35	03/06/25 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*40 - 140*	*03/06/25 10:35*	*03/06/25 21:33*	*1*
2-Fluorobiphenyl	*77*		*40 - 140*	*03/06/25 10:35*	*03/06/25 21:33*	*1*
2-Bromonaphthalene	*81*		*40 - 140*	*03/06/25 10:35*	*03/06/25 21:33*	*1*
1-Chlorooctadecane	*60*		*40 - 140*	*03/06/25 10:35*	*03/06/25 21:33*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**281**		20.1	5.5	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Antimony	**0.22**	**J F1**	1.0	0.15	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Arsenic	**0.20**	**J F1**	1.0	0.10	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Barium	**3.5**	**F1**	2.0	0.15	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Beryllium	0.057	U	0.40	0.057	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Cadmium	0.11	U	1.0	0.11	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Calcium	**388**	**F1**	101	41.0	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Chromium	**1.0**	**J**	2.0	0.91	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Cobalt	0.15	U	2.0	0.15	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Copper	**1.6**	**J**	2.0	0.37	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Iron	**372**	**F1**	60.4	20.3	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Lead	**8.0**	**F1**	0.60	0.20	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Magnesium	**75.5**	**J**	101	10.3	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Manganese	**11.5**	**F1**	4.0	0.41	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Nickel	**0.62**	**J**	2.0	0.47	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Potassium	**41.0**	**J**	101	16.3	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1

Client Sample ID: 3-01-TS

Date Collected: 01/23/25 14:30
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-11

Matrix: Solid
Percent Solids: 99.3

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.13	U F1	1.3	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Silver	0.090	U	0.40	0.090	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Sodium	46.0	U	101	46.0	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Thallium	0.041	U	0.40	0.041	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Vanadium	**1.4**	**J**	2.0	0.21	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1
Zinc	**5.5**	**J**	8.1	3.1	mg/Kg	☼	03/05/25 07:04	03/05/25 14:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**H**	0.017	0.0078	mg/Kg	☼	03/07/25 01:02	03/07/25 05:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H F2 F1	0.22	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 15:50	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.3**		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 3-01-CS

Date Collected: 01/23/25 14:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-12

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U H	0.00099	0.00023	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,1,2,2-Tetrachloroethane	0.00021	U H	0.00099	0.00021	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U H	0.00099	0.00030	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,1,2-Trichloroethane	0.00018	U H	0.00099	0.00018	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,1-Dichloroethane	0.00020	U H	0.00099	0.00020	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,1-Dichloroethene	0.00022	U H	0.00099	0.00022	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,2,3-Trichlorobenzene	0.00018	U H	0.00099	0.00018	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,2,4-Trichlorobenzene	0.00035	U H	0.00099	0.00035	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,2-Dibromo-3-Chloropropane	0.00045	U H *-	0.00099	0.00045	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,2-Dibromoethane	0.00018	U H	0.00099	0.00018	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,2-Dichlorobenzene	0.00036	U H	0.00099	0.00036	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,2-Dichloroethane	0.00029	U H	0.00099	0.00029	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,2-Dichloropropane	0.00042	U H	0.00099	0.00042	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,3-Dichlorobenzene	0.00036	U H	0.00099	0.00036	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
1,4-Dichlorobenzene	0.00022	U H	0.00099	0.00022	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
2-Butanone (MEK)	0.00036	U H	0.0049	0.00036	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
2-Hexanone	0.0017	U H	0.0049	0.0017	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
4-Methyl-2-pentanone (MIBK)	0.0015	U H	0.0049	0.0015	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Acetone	0.0056	U H	0.0059	0.0056	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Benzene	0.00025	U H	0.00099	0.00025	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Bromodichloromethane	0.00025	U H	0.00099	0.00025	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Bromoform	0.00042	U H	0.00099	0.00042	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Bromomethane	0.00099	U H *+	0.0020	0.00099	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Carbon disulfide	0.00026	U H	0.00099	0.00026	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Carbon tetrachloride	0.00038	U H	0.00099	0.00038	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Chlorobenzene	0.00017	U H	0.00099	0.00017	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Chlorobromomethane	0.00028	U H	0.00099	0.00028	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1

Client Sample ID: 3-01-CS
Date Collected: 01/23/25 14:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-12
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.00052	U H	0.00099	0.00052	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Chloroform	0.00096	U H	0.00099	0.00096	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Chloromethane	0.00043	U H	0.00099	0.00043	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
cis-1,2-Dichloroethene	0.00035	U H	0.00099	0.00035	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
cis-1,3-Dichloropropene	0.00027	U H	0.00099	0.00027	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Cyclohexane	0.00022	U H	0.00099	0.00022	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Dibromochloromethane	0.00019	U H	0.00099	0.00019	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Dichlorodifluoromethane	0.00033	U H	0.00099	0.00033	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Ethylbenzene	0.00020	U H	0.00099	0.00020	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Isopropylbenzene	0.00028	U H	0.00099	0.00028	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Methyl acetate	0.0042	U H	0.0049	0.0042	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Methyl tert-butyl ether	0.00051	U H	0.00099	0.00051	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Methylcyclohexane	0.00049	U H	0.00099	0.00049	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Methylene Chloride	0.0011	U H	0.0020	0.0011	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
m-Xylene & p-Xylene	0.00017	U H	0.00099	0.00017	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
o-Xylene	0.00019	U H	0.00099	0.00019	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Styrene	0.00027	U H	0.00099	0.00027	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Tetrachloroethene	0.00030	U H	0.00099	0.00030	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Toluene	0.00023	U H	0.00099	0.00023	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
trans-1,2-Dichloroethene	0.00024	U H	0.00099	0.00024	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
trans-1,3-Dichloropropene	0.00026	U H	0.00099	0.00026	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Trichloroethene	0.00032	U H	0.00099	0.00032	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Trichlorofluoromethane	0.00040	U H	0.00099	0.00040	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1
Vinyl chloride	0.00054	U H	0.00099	0.00054	mg/Kg	☼	01/24/25 19:02	03/05/25 03:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/24/25 19:02*	*03/05/25 03:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*	*01/24/25 19:02*	*03/05/25 03:36*	*1*
4-Bromofluorobenzene	*96*		*71 - 128*	*01/24/25 19:02*	*03/05/25 03:36*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 150*	*01/24/25 19:02*	*03/05/25 03:36*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*	*01/24/25 19:02*	*03/05/25 03:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
1,2,4-Trichlorobenzene	0.0085	U H	0.033	0.0085	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1

Client Sample ID: 3-01-CS
Date Collected: 01/23/25 14:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-12
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Atrazine	0.020	U H *+	0.13	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Benzidine	0.070	U H	0.33	0.070	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Benzo[a]pyrene	0.0088	U H	0.033	0.0088	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Dimethyl phthalate	0.075	U H	0.33	0.075	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1

Client Sample ID: 3-01-CS

Date Collected: 01/23/25 14:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-12

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:39	03/04/25 18:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:39*	*03/04/25 18:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*24 - 137*	*03/04/25 08:39*	*03/04/25 18:21*	*1*
2-Fluorobiphenyl	*79*		*38 - 128*	*03/04/25 08:39*	*03/04/25 18:21*	*1*
2-Fluorophenol (Surr)	*72*		*31 - 133*	*03/04/25 08:39*	*03/04/25 18:21*	*1*
Nitrobenzene-d5 (Surr)	*82*		*31 - 120*	*03/04/25 08:39*	*03/04/25 18:21*	*1*
Phenol-d5 (Surr)	*75*		*35 - 132*	*03/04/25 08:39*	*03/04/25 18:21*	*1*
Terphenyl-d14 (Surr)	*82*		*44 - 147*	*03/04/25 08:39*	*03/04/25 18:21*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:27	03/06/25 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*17 - 150*	*03/05/25 17:27*	*03/06/25 07:01*	*1*
DCB Decachlorobiphenyl	*76*		*17 - 150*	*03/05/25 17:27*	*03/06/25 07:01*	*1*
Tetrachloro-m-xylene	*99*		*21 - 150*	*03/05/25 17:27*	*03/06/25 07:01*	*1*
Tetrachloro-m-xylene	*97*		*21 - 150*	*03/05/25 17:27*	*03/06/25 07:01*	*1*

Client Sample ID: 3-01-CS

Date Collected: 01/23/25 14:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-12

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:21	03/06/25 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*20 - 150*	*03/05/25 17:21*	*03/06/25 11:20*	*1*
DCB Decachlorobiphenyl	*80*		*20 - 150*	*03/05/25 17:21*	*03/06/25 11:20*	*1*
Tetrachloro-m-xylene	*112*		*20 - 150*	*03/05/25 17:21*	*03/06/25 11:20*	*1*
Tetrachloro-m-xylene	*107*		*20 - 150*	*03/05/25 17:21*	*03/06/25 11:20*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:35	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:35	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:35	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:35	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:35	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:35	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:35	1
C21-C36 Aromatic	8.0	U H	8.0	8.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:35*	*1*
2-Fluorobiphenyl	*93*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:35*	*1*
2-Bromonaphthalene	*93*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:35*	*1*
1-Chlorooctadecane	*64*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:35*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1710**		17.9	4.9	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Arsenic	**0.57**	**J**	0.90	0.092	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Barium	**1.9**		1.8	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Calcium	36.5	U	89.7	36.5	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Chromium	**3.7**		1.8	0.81	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Cobalt	**0.13**	**J**	1.8	0.13	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1

Client Sample ID: 3-01-CS

Date Collected: 01/23/25 14:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-12

Matrix: Solid
Percent Solids: 99.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.7	J	1.8	0.33	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Iron	1590		53.8	18.1	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Lead	2.1		0.54	0.18	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Magnesium	48.1	J	89.7	9.1	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Manganese	4.2		3.6	0.36	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Nickel	0.64	J	1.8	0.42	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Potassium	38.2	J	89.7	14.5	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Selenium	0.11	J	1.1	0.11	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Sodium	41.0	U	89.7	41.0	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Vanadium	3.3		1.8	0.18	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1
Zinc	2.8	J	7.2	2.7	mg/Kg	☼	03/05/25 07:04	03/05/25 15:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0087	J H	0.016	0.0074	mg/Kg	☼	03/07/25 01:02	03/07/25 05:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U H	0.21	0.11	mg/Kg	☼	03/07/25 18:23	03/09/25 15:55	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	99.6		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 4-02-TS

Date Collected: 01/23/25 15:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-13

Matrix: Solid
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00030	U	0.0013	0.00030	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,1,2,2-Tetrachloroethane	0.00027	U	0.0013	0.00027	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00039	U	0.0013	0.00039	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,1,2-Trichloroethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,1-Dichloroethane	0.00026	U	0.0013	0.00026	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,1-Dichloroethene	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,2,3-Trichlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,2,4-Trichlorobenzene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,2-Dibromo-3-Chloropropane	0.00059	U *+	0.0013	0.00059	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,2-Dibromoethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,2-Dichlorobenzene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,2-Dichloroethane	0.00038	U	0.0013	0.00038	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,2-Dichloropropane	0.00054	U	0.0013	0.00054	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,3-Dichlorobenzene	0.00047	U	0.0013	0.00047	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
1,4-Dichlorobenzene	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
2-Butanone (MEK)	0.00047	U	0.0064	0.00047	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
2-Hexanone	0.0022	U	0.0064	0.0022	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
4-Methyl-2-pentanone (MIBK)	0.0020	U *-	0.0064	0.0020	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Acetone	0.022		0.0077	0.0073	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Benzene	0.00033	U	0.0013	0.00033	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1

Client Sample ID: 4-02-TS
Date Collected: 01/23/25 15:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-13
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.00033	U	0.0013	0.00033	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Bromoform	0.00055	U	0.0013	0.00055	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Bromomethane	0.0013	U	0.0026	0.0013	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Carbon disulfide	0.00034	U	0.0013	0.00034	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Carbon tetrachloride	0.00050	U	0.0013	0.00050	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Chlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Chlorobromomethane	0.00036	U *+	0.0013	0.00036	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Chloroethane	0.00067	U	0.0013	0.00067	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Chloroform	0.0012	U	0.0013	0.0012	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Chloromethane	0.00056	U	0.0013	0.00056	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
cis-1,2-Dichloroethene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
cis-1,3-Dichloropropene	0.00035	U	0.0013	0.00035	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Cyclohexane	0.00028	U	0.0013	0.00028	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Dibromochloromethane	0.00025	U	0.0013	0.00025	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Dichlorodifluoromethane	0.00043	U	0.0013	0.00043	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Ethylbenzene	**0.00028**	**J**	0.0013	0.00026	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Isopropylbenzene	0.00037	U	0.0013	0.00037	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Methyl acetate	0.0055	U	0.0064	0.0055	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Methyl tert-butyl ether	0.00066	U	0.0013	0.00066	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Methylcyclohexane	0.00064	U	0.0013	0.00064	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Methylene Chloride	0.0015	U	0.0026	0.0015	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
m-Xylene & p-Xylene	**0.0012**	**J**	0.0013	0.00022	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
o-Xylene	**0.0010**	**J**	0.0013	0.00025	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Styrene	0.00036	U	0.0013	0.00036	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Tetrachloroethene	0.00039	U	0.0013	0.00039	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Toluene	**0.00043**	**J**	0.0013	0.00030	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
trans-1,2-Dichloroethene	0.00032	U	0.0013	0.00032	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
trans-1,3-Dichloropropene	0.00034	U	0.0013	0.00034	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Trichloroethene	0.00041	U	0.0013	0.00041	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Trichlorofluoromethane	0.00052	U	0.0013	0.00052	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1
Vinyl chloride	0.00070	U	0.0013	0.00070	mg/Kg	☼	01/24/25 19:03	01/29/25 02:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/24/25 19:03*	*01/29/25 02:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/24/25 19:03*	*01/29/25 02:58*	*1*
4-Bromofluorobenzene	*89*		*71 - 128*	*01/24/25 19:03*	*01/29/25 02:58*	*1*
Dibromofluoromethane (Surr)	*117*		*50 - 150*	*01/24/25 19:03*	*01/29/25 02:58*	*1*
Toluene-d8 (Surr)	*91*		*71 - 126*	*01/24/25 19:03*	*01/29/25 02:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
1,2,4-Trichlorobenzene	0.0087	U	0.034	0.0087	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
1,2-Dichlorobenzene	0.0058	U	0.34	0.0058	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
1,2-Diphenylhydrazine	0.013	U	0.34	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 4-02-TS
Date Collected: 01/23/25 15:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-13
Matrix: Solid
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2,4-Dinitrophenol	0.17	U	0.27	0.17	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2,4-Dinitrotoluene	0.037	U	0.069	0.037	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2,6-Dinitrotoluene	0.025	U	0.069	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2-Methylnaphthalene	0.0095	U	0.34	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
3,3'-Dichlorobenzidine	0.051	U	0.14	0.051	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
3-Nitroaniline	0.081	U	0.34	0.081	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
4-Bromophenyl phenyl ether	0.013	U	0.34	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
4-Chloroaniline	0.060	U	0.34	0.060	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
4-Nitrophenol	0.055	U	0.69	0.055	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Acenaphthene	0.0097	U	0.34	0.0097	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Acenaphthylene	0.0097	U	0.34	0.0097	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Anthracene	0.010	U	0.34	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Benzaldehyde	**0.070**	**J**	0.34	0.056	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Benzidine	0.071	U	0.34	0.071	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Benzo[a]pyrene	0.0090	U	0.034	0.0090	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Benzo[b]fluoranthene	**0.011**	**J**	0.034	0.0088	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Benzo[g,h,i]perylene	0.010	U	0.34	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Benzo[k]fluoranthene	0.0067	U	0.034	0.0067	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
bis (2-chloroisopropyl) ether	0.020	U	0.34	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Bis(2-chloroethoxy)methane	0.026	U	0.34	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Caprolactam	0.053	U	0.34	0.053	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Chrysene	0.014	U	0.34	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Dimethyl phthalate	0.077	U	0.34	0.077	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Fluoranthene	0.012	U	0.34	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1

Client Sample ID: 4-02-TS

Date Collected: 01/23/25 15:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-13

Matrix: Solid
Percent Solids: 97.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.0099	U	0.34	0.0099	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Hexachlorobutadiene	0.0072	U	0.069	0.0072	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Hexachlorocyclopentadiene	0.030	U *+	0.34	0.030	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Isophorone	0.098	U	0.14	0.098	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Naphthalene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
N-Nitrosodimethylamine	0.031	U	0.34	0.031	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Pentachlorophenol	0.070	U	0.27	0.070	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Phenol	0.012	U	0.34	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1
Pyrene	0.0084	U	0.34	0.0084	mg/Kg	☼	01/27/25 11:40	01/28/25 09:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.70*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
1S-.alpha.-Pinene	*3.3*	*J N*	*mg/Kg*	☼	*2.54*	*7785-26-4*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-, (1S)-	*1.4*	*J N*	*mg/Kg*	☼	*2.85*	*18172-67-3*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
4-((1E)-3-Hydroxy-1-propenyl)-2-methoxyphenol	*1.0*	*J N*	*mg/Kg*	☼	*6.79*	*1000297-95-5*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
n-Hexadecanoic acid	*0.84*	*J N*	*mg/Kg*	☼	*7.58*	*57-10-3*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*0.63*	*J*	*mg/Kg*	☼	*7.97*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*1.4*	*J*	*mg/Kg*	☼	*8.21*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*0.98*	*J*	*mg/Kg*	☼	*8.87*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*2.7*	*J N*	*mg/Kg*	☼	*9.29*	*1740-19-8*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*1.7*	*J*	*mg/Kg*	☼	*9.70*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*1.1*	*J*	*mg/Kg*	☼	*9.92*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
1-Heneicosyl formate	*0.65*	*J N*	*mg/Kg*	☼	*10.03*	*77899-03-7*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*0.66*	*J*	*mg/Kg*	☼	*10.19*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Tetracosanoic acid	*1.1*	*J N*	*mg/Kg*	☼	*10.27*	*557-59-5*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*4.8*	*J*	*mg/Kg*	☼	*11.45*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*3.1*	*J*	*mg/Kg*	☼	*11.56*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
(-)-Nortrachelogenin	*1.6*	*J N*	*mg/Kg*	☼	*11.78*	*34444-37-6*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Unknown	*1.1*	*J*	*mg/Kg*	☼	*12.38*	*N/A*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Stigmasterol, 22,23-dihydro-	*3.1*	*J N*	*mg/Kg*	☼	*12.49*	*1000214-20-7*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Stigmast-4-en-3-one	*3.6*	*J N*	*mg/Kg*	☼	*13.20*	*1058-61-3*	*01/27/25 11:40*	*01/28/25 09:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*24 - 137*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
2-Fluorobiphenyl	*69*		*38 - 128*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
2-Fluorophenol (Surr)	*63*		*31 - 133*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Nitrobenzene-d5 (Surr)	*63*		*31 - 120*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Phenol-d5 (Surr)	*64*		*35 - 132*	*01/27/25 11:40*	*01/28/25 09:01*	*1*
Terphenyl-d14 (Surr)	*71*		*44 - 147*	*01/27/25 11:40*	*01/28/25 09:01*	*1*

Client Sample ID: 4-02-TS

Date Collected: 01/23/25 15:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-13

Matrix: Solid
Percent Solids: 97.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0069	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
4,4'-DDE	0.00081	U	0.0069	0.00081	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
4,4'-DDT	0.0013	U	0.0069	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Aldrin	0.0010	U	0.0069	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
alpha-BHC	0.00070	U	0.0021	0.00070	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
beta-BHC	0.00077	U	0.0021	0.00077	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
delta-BHC	0.00042	U	0.0021	0.00042	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Dieldrin	0.00089	U	0.0021	0.00089	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Endosulfan I	0.0010	U	0.0069	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Endosulfan II	0.0018	U	0.0069	0.0018	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Endosulfan sulfate	0.00086	U	0.0069	0.00086	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Endrin	0.00099	U	0.0069	0.00099	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Endrin aldehyde	0.0016	U	0.0069	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Endrin ketone	0.0013	U	0.0069	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
gamma-BHC (Lindane)	0.00064	U	0.0021	0.00064	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Heptachlor	0.00081	U	0.0069	0.00081	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Heptachlor epoxide	0.0010	U	0.0069	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Methoxychlor	0.0016	U	0.0069	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Toxaphene	0.025	U	0.069	0.025	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1
Chlordane (n.o.s.)	0.017	U	0.069	0.017	mg/Kg	☼	01/25/25 18:37	01/27/25 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*17 - 150*	*01/25/25 18:37*	*01/27/25 10:12*	*1*
DCB Decachlorobiphenyl	*103*		*17 - 150*	*01/25/25 18:37*	*01/27/25 10:12*	*1*
Tetrachloro-m-xylene	*75*		*21 - 150*	*01/25/25 18:37*	*01/27/25 10:12*	*1*
Tetrachloro-m-xylene	*68*		*21 - 150*	*01/25/25 18:37*	*01/27/25 10:12*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Aroclor 1221	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Aroclor 1232	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Aroclor 1242	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Aroclor 1248	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Aroclor 1254	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Aroclor 1260	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Aroclor-1262	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Aroclor 1268	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1
Polychlorinated biphenyls, Total	0.018	U	0.069	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*20 - 150*	*01/25/25 18:34*	*01/27/25 17:12*	*1*
DCB Decachlorobiphenyl	*85*		*20 - 150*	*01/25/25 18:34*	*01/27/25 17:12*	*1*
Tetrachloro-m-xylene	*73*		*20 - 150*	*01/25/25 18:34*	*01/27/25 17:12*	*1*
Tetrachloro-m-xylene	*72*		*20 - 150*	*01/25/25 18:34*	*01/27/25 17:12*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1

Client Sample ID: 4-02-TS
Date Collected: 01/23/25 15:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-13
Matrix: Solid
Percent Solids: 97.2

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/27/25 10:06	01/28/25 18:23	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/27/25 10:06	01/28/25 18:23	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/27/25 10:06	01/28/25 18:23	1
C21-C40 Aliphatics	7.2	U	7.2	7.2	mg/Kg	☼	01/27/25 10:06	01/28/25 18:23	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/27/25 10:06	01/28/25 18:23	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	01/27/25 10:06	01/28/25 18:23	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/27/25 10:06	01/28/25 18:23	1
C21-C36 Aromatic	8.2	U	8.2	8.2	mg/Kg	☼	01/27/25 10:06	01/28/25 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:23*	*1*
2-Fluorobiphenyl	*82*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:23*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:23*	*1*
1-Chlorooctadecane	*71*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:23*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**376**		18.7	5.1	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Arsenic	**0.22**	**J**	0.94	0.096	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Barium	**2.1**		1.9	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Calcium	**114**		93.5	38.1	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Chromium	**1.0**	**J**	1.9	0.85	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Copper	**1.1**	**J**	1.9	0.34	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Iron	**333**		56.1	18.9	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Lead	**8.1**		0.56	0.19	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Magnesium	**27.3**	**J**	93.5	9.5	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Manganese	**6.7**		3.7	0.38	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Nickel	0.44	U	1.9	0.44	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Potassium	**29.6**	**J**	93.5	15.1	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Silver	0.083	U	0.37	0.083	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Sodium	42.7	U	93.5	42.7	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Vanadium	**1.7**	**J**	1.9	0.19	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1
Zinc	2.9	U	7.5	2.9	mg/Kg	☼	01/28/25 06:35	01/28/25 16:06	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	U	0.017	0.0081	mg/Kg	☼	01/27/25 01:29	01/27/25 06:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.21	0.11	mg/Kg	☼	01/29/25 09:22	01/29/25 13:10	1

Client Sample ID: 4-02-TS

Lab Sample ID: 460-319229-13

Date Collected: 01/23/25 15:10
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 97.2

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.8		1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	97.2		1.0	1.0	%			01/27/25 07:12	1

Client Sample ID: 4-02-CS

Lab Sample ID: 460-319229-14

Date Collected: 01/23/25 15:20
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,2-Dibromo-3-Chloropropane	0.00049	U *+	0.0011	0.00049	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,2-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,2-Dichloroethane	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
2-Butanone (MEK)	0.00039	U	0.0053	0.00039	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
2-Hexanone	0.0018	U	0.0053	0.0018	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
4-Methyl-2-pentanone (MIBK)	0.0017	U *-	0.0053	0.0017	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Acetone	0.0061	U	0.0064	0.0061	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Benzene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Bromodichloromethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Bromomethane	0.0011	U	0.0021	0.0011	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Carbon disulfide	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Chlorobromomethane	0.00030	U *+	0.0011	0.00030	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Chloroethane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Chloromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Cyclohexane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Methyl acetate	0.0046	U	0.0053	0.0046	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Methyl tert-butyl ether	0.00054	U	0.0011	0.00054	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Methylcyclohexane	0.00053	U	0.0011	0.00053	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1

Client Sample ID: 4-02-CS
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-14
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**0.00036**	**J**	0.0011	0.00018	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
o-Xylene	**0.00037**	**J**	0.0011	0.00021	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Tetrachloroethene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
trans-1,3-Dichloropropene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1
Vinyl chloride	0.00058	U	0.0011	0.00058	mg/Kg	☼	01/24/25 19:03	01/29/25 03:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/24/25 19:03*	*01/29/25 03:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*	*01/24/25 19:03*	*01/29/25 03:21*	*1*
4-Bromofluorobenzene	*86*		*71 - 128*	*01/24/25 19:03*	*01/29/25 03:21*	*1*
Dibromofluoromethane (Surr)	*114*		*50 - 150*	*01/24/25 19:03*	*01/29/25 03:21*	*1*
Toluene-d8 (Surr)	*91*		*71 - 126*	*01/24/25 19:03*	*01/29/25 03:21*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1

Client Sample ID: 4-02-CS
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-14
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Di-n-butyl phthalate	**0.052**	**J**	0.33	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/27/25 11:40	01/28/25 08:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*1.5*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/27/25 11:40*	*01/28/25 08:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*24 - 137*	*01/27/25 11:40*	*01/28/25 08:03*	*1*

Client Sample ID: 4-02-CS
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-14
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		38 - 128	01/27/25 11:40	01/28/25 08:03	1
2-Fluorophenol (Surr)	62		31 - 133	01/27/25 11:40	01/28/25 08:03	1
Nitrobenzene-d5 (Surr)	65		31 - 120	01/27/25 11:40	01/28/25 08:03	1
Phenol-d5 (Surr)	64		35 - 132	01/27/25 11:40	01/28/25 08:03	1
Terphenyl-d14 (Surr)	71		44 - 147	01/27/25 11:40	01/28/25 08:03	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/25/25 18:37	01/27/25 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		17 - 150	01/25/25 18:37	01/27/25 10:25	1
DCB Decachlorobiphenyl	104		17 - 150	01/25/25 18:37	01/27/25 10:25	1
Tetrachloro-m-xylene	89		21 - 150	01/25/25 18:37	01/27/25 10:25	1
Tetrachloro-m-xylene	86		21 - 150	01/25/25 18:37	01/27/25 10:25	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/25/25 18:34	01/27/25 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		20 - 150	01/25/25 18:34	01/27/25 17:29	1

Client Sample ID: 4-02-CS

Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-14

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*99*		*20 - 150*	*01/25/25 18:34*	*01/27/25 17:29*	*1*
Tetrachloro-m-xylene	*90*		*20 - 150*	*01/25/25 18:34*	*01/27/25 17:29*	*1*
Tetrachloro-m-xylene	*85*		*20 - 150*	*01/25/25 18:34*	*01/27/25 17:29*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/28/25 12:07	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:39	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:39	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:39	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:39	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:39	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:39	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:39	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/27/25 10:06	01/28/25 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*89*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:39*	*1*
2-Fluorobiphenyl	*88*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:39*	*1*
2-Bromonaphthalene	*88*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:39*	*1*
1-Chlorooctadecane	*83*		*40 - 140*	*01/27/25 10:06*	*01/28/25 18:39*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1500**		17.8	4.9	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Antimony	0.13	U	0.89	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Arsenic	**0.32**	**J**	0.89	0.092	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Barium	**1.9**		1.8	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Cadmium	0.10	U	0.89	0.10	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Calcium	36.2	U	88.9	36.2	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Chromium	**2.8**		1.8	0.81	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Cobalt	**0.13**	**J**	1.8	0.13	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Copper	**1.2**	**J**	1.8	0.33	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Iron	**1050**		53.3	17.9	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Lead	**2.0**		0.53	0.18	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Magnesium	**30.6**	**J**	88.9	9.1	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Manganese	**45.5**		3.6	0.36	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Nickel	**0.54**	**J**	1.8	0.42	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Potassium	**28.2**	**J**	88.9	14.4	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Silver	0.079	U	0.36	0.079	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Sodium	40.6	U	88.9	40.6	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Thallium	0.036	U	0.36	0.036	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1
Vanadium	**2.6**		1.8	0.18	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 4-02-CS
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-14
Matrix: Solid
Percent Solids: 99.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.7	U	7.1	2.7	mg/Kg	☼	01/28/25 06:35	01/28/25 16:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0077**	**J**	0.016	0.0075	mg/Kg	☼	01/27/25 01:29	01/27/25 06:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.21	0.11	mg/Kg	☼	01/29/25 09:22	01/29/25 13:13	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:12	1
Percent Solids (EPA Moisture)	**99.6**		1.0	1.0	%			01/27/25 07:12	1

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(65-138)	(71-128)	(50-150)	(71-126)
460-319229-3	2B-06-TS	108	93	115	94
460-319229-4	2B-06-CS-4	104	87	114	90
460-319229-5	2B-06-CS-8	104	84	113	89
460-319229-6	3-02-TS	102	104	102	101
460-319229-7	DUP-03	105	108	103	106
460-319229-8	3-02-CS	106	106	105	98
460-319229-9	3-03-CS-4	106	88	115	92
460-319229-10	3-03-CS-8	103	86	113	89
460-319229-11	3-01-TS	114	129 S1+	110	108
460-319229-11 MS	3-01-TS	101	116	107	113
460-319229-11 MSD	3-01-TS	98	111	106	112
460-319229-12	3-01-CS	102	96	103	104
460-319229-13	4-02-TS	109	89	117	91
460-319229-14	4-02-CS	105	86	114	91
LCS 460-1018422/7	Lab Control Sample	100	85	107	89
LCS 460-1024023/2	Lab Control Sample	102	99	100	107
LCSD 460-1018422/8	Lab Control Sample Dup	101	84	108	91
LCSD 460-1024023/3	Lab Control Sample Dup	105	102	105	108
MB 460-1018422/10	Method Blank	104	85	110	90
MB 460-1024023/7	Method Blank	106	105	101	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-128)	(76-120)	(77-132)	(80-120)
460-319229-1	Trip Blank	114	87	94	107
460-319229-2	FB-20250123	115	86	96	105
LCS 460-1018189/4	Lab Control Sample	109	88	90	107
LCSD 460-1018189/5	Lab Control Sample Dup	111	88	91	106
MB 460-1018189/9	Method Blank	109	85	90	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319229-1
Project/Site: Manchester LF

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(24-137)	(38-128)	(31-133)	(31-120)	(35-132)	(44-147)
460-319229-3	2B-06-TS	64	70	62	64	63	71
460-319229-4	2B-06-CS-4	58	75	67	69	70	77
460-319229-4 MS	2B-06-CS-4	77	90	82	82	85	95
460-319229-4 MSD	2B-06-CS-4	81	91	83	84	85	91
460-319229-5	2B-06-CS-8	60	74	65	68	67	74
460-319229-6	3-02-TS	89	85	90	86	84	90
460-319229-7	DUP-03	87	82	91	85	86	86
460-319229-8	3-02-CS	90	83	87	86	77	87
460-319229-9	3-03-CS-4	52	74	64	67	65	72
460-319229-10	3-03-CS-8	39	66	58	61	60	69
460-319229-11	3-01-TS	85	80	73	75	70	83
460-319229-11 MS	3-01-TS	75	69	68	69	66	71
460-319229-11 MSD	3-01-TS	71	66	65	64	65	69
460-319229-12	3-01-CS	84	79	72	82	75	82
460-319229-13	4-02-TS	64	69	63	63	64	71
460-319229-14	4-02-CS	54	69	62	65	64	71
LCS 460-1018240/2-A	Lab Control Sample	92	91	87	88	89	93
LCS 460-1023975/2-A	Lab Control Sample	104	95	99	95	95	98
LCSD 460-1018240/3-A	Lab Control Sample Dup	87	87	81	85	85	88
LCSD 460-1023975/3-A	Lab Control Sample Dup	104	93	102	92	93	97
MB 460-1018240/1-A	Method Blank	84	91	84	87	85	89
MB 460-1023975/1-A	Method Blank	87	86	98	92	79	86

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(37-150)	(46-139)	(16-80)	(51-145)	(10-56)	(13-159)
460-319229-2	FB-20250123	79	75	44	78	30	28
LCS 460-1018078/2-A	Lab Control Sample	86	77	45	81	33	65
LCSD 460-1018078/3-A	Lab Control Sample Dup	85	78	46	83	33	65
MB 460-1018078/1-A	Method Blank	81	78	44	80	29	29

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319229-1
Project/Site: Manchester LF

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(21-150)	(21-150)	(17-150)	(17-150)
460-319135-G-15-M MS	Matrix Spike	58	61	67	80
460-319135-G-15-N MSD	Matrix Spike Duplicate	61	65	68	83
460-319229-3	2B-06-TS	60	70	91	102
460-319229-4	2B-06-CS-4	73	82	94	105
460-319229-5	2B-06-CS-8	86	88	111	113
460-319229-6	3-02-TS	102	104	76	82
460-319229-7	DUP-03	82	82	62	73
460-319229-8	3-02-CS	94	94	73	74
460-319229-9	3-03-CS-4	72	84	91	99
460-319229-10	3-03-CS-8	76	73	110	107
460-319229-11	3-01-TS	97	98	79	78
460-319229-11 MS	3-01-TS	84	81	65	65
460-319229-11 MSD	3-01-TS	86	83	69	63
460-319229-12	3-01-CS	97	99	76	84
460-319229-13	4-02-TS	68	75	103	94
460-319229-14	4-02-CS	86	89	104	106
LCS 460-1018105/2-A	Lab Control Sample	66	62	53	63
LCS 460-1024269/2-A	Lab Control Sample	86	84	62	62
LCSD 460-1018105/3-A	Lab Control Sample Dup	63	60	51	60
LCSD 460-1024269/3-A	Lab Control Sample Dup	80	78	61	58
MB 460-1018105/1-A	Method Blank	66	69	56	63
MB 460-1024269/1-A	Method Blank	89	90	66	70

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(34-120)	(34-120)	(30-131)	(30-131)
460-319229-2	FB-20250123	73	77	59	68
LCS 460-1018037/2-A	Lab Control Sample	75	75	68	76
LCSD 460-1018037/3-A	Lab Control Sample Dup	77	75	68	77
MB 460-1018037/1-A	Method Blank	81	86	62	72

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)
460-319135-G-15-J MS	Matrix Spike	93	94	83	83
460-319135-G-15-K MSD	Matrix Spike Duplicate	99	98	85	86
460-319229-3	2B-06-TS	101	99	74	75
460-319229-4	2B-06-CS-4	96	103	80	84

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319229-1
Project/Site: Manchester LF

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)
460-319229-5	2B-06-CS-8	106	104	88	90
460-319229-6	3-02-TS	86	89	117	122
460-319229-7	DUP-03	62	62	87	87
460-319229-8	3-02-CS	73	74	101	104
460-319229-9	3-03-CS-4	98	103	80	84
460-319229-10	3-03-CS-8	99	97	78	80
460-319229-11	3-01-TS	69	69	94	96
460-319229-11 MS	3-01-TS	79	81	110	111
460-319229-11 MSD	3-01-TS	50	50	72	71
460-319229-12	3-01-CS	80	82	107	112
460-319229-13	4-02-TS	85	83	72	73
460-319229-14	4-02-CS	99	98	85	90
LCS 460-1018104/2-A	Lab Control Sample	77	77	81	82
LCS 460-1024267/2-A	Lab Control Sample	74	73	102	98
LCSD 460-1018104/3-A	Lab Control Sample Dup	78	79	80	82
LCSD 460-1024267/3-A	Lab Control Sample Dup	68	70	94	94
MB 460-1018104/1-A	Method Blank	86	83	78	81
MB 460-1024267/1-A	Method Blank	71	72	97	99

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(18-145)	(18-145)	(21-124)	(21-124)
460-319229-2	FB-20250123	60	57	74	75
LCS 460-1018033/2-A	Lab Control Sample	67	62	89	86
LCSD 460-1018033/3-A	Lab Control Sample Dup	69	63	91	87
MB 460-1018033/1-A	Method Blank	67	61	87	86

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1	FBP1	2BN1	1COD1
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(40-140)	(40-140)
180-185371-D-5-K MS	Matrix Spike	62	83	83	68
180-185371-D-5-L MSD	Matrix Spike Duplicate	65	90	90	65
460-319229-3	2B-06-TS	65	84	84	83
460-319229-4	2B-06-CS-4	84	85	87	100
460-319229-5	2B-06-CS-8	92	82	82	110
460-319229-6	3-02-TS	71	77	80	66
460-319229-7	DUP-03	71	78	82	62
460-319229-8	3-02-CS	81	86	89	67

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319229-1
Project/Site: Manchester LF

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1	FBP1	2BN1	1COD1
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(40-140)	(40-140)
460-319229-9	3-03-CS-4	90	89	90	105
460-319229-10	3-03-CS-8	92	82	83	100
460-319229-11	3-01-TS	66	77	81	60
460-319229-11 MS	3-01-TS	58	76	79	57
460-319229-11 MSD	3-01-TS	54	87	88	49
460-319229-12	3-01-CS	90	93	93	64
460-319229-13	4-02-TS	72	82	84	71
460-319229-14	4-02-CS	89	88	88	83
LCS 460-1018231/2-A	Lab Control Sample				79
LCS 460-1018231/2-A	Lab Control Sample	88	83	85	
LCS 460-1024433/2-A	Lab Control Sample	80	83	84	73
LCSD 460-1018231/3-A	Lab Control Sample Dup				76
LCSD 460-1018231/3-A	Lab Control Sample Dup	89	87	89	
LCSD 460-1024433/3-A	Lab Control Sample Dup	83	83	85	72
MB 460-1018231/1-A	Method Blank				71
MB 460-1018231/1-A	Method Blank	70	80	85	
MB 460-1024433/1-A	Method Blank	89	90	92	71

Surrogate Legend

OTPH = o-Terphenyl
FBP = 2-Fluorobiphenyl
2BN = 2-Bromonaphthalene
1COD = 1-Chlorooctadecane

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH1	1COD1
Lab Sample ID	Client Sample ID	(40-140)	(40-140)
460-319229-2	FB-20250123	78	86
LCS 460-1018029/2-A	Lab Control Sample	75	96
LCSD 460-1018029/3-A	Lab Control Sample Dup	72	93
MB 460-1018029/1-A	Method Blank	76	85

Surrogate Legend

OTPH = o-Terphenyl
1COD = 1-Chlorooctadecane

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1018032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.00035	U H	0.0253	0.0141	H F1	mg/Kg	☼	56	78 - 120
1,1,2,2-Tetrachloroethane	0.00032	U H	0.0253	0.0111	H F1	mg/Kg	☼	44	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00045	U H	0.0253	0.0167	H F1	mg/Kg	☼	66	75 - 121
1,1,2-Trichloroethane	0.00027	U H	0.0253	0.0131	H F1	mg/Kg	☼	52	80 - 120
1,1-Dichloroethane	0.00031	U H	0.0253	0.0168	H F1	mg/Kg	☼	66	72 - 120
1,1-Dichloroethene	0.00034	U H	0.0253	0.0174	H F1	mg/Kg	☼	69	76 - 120
1,2,3-Trichlorobenzene	0.00027	U H	0.0253	0.00148	H F1	mg/Kg	☼	6	77 - 137
1,2,4-Trichlorobenzene	0.00054	U H	0.0253	0.00163	H F1	mg/Kg	☼	6	77 - 136
1,2-Dibromo-3-Chloropropane	0.00069	U H *-	0.0253	0.00592	H F1	mg/Kg	☼	23	80 - 124
1,2-Dibromoethane	0.00027	U H	0.0253	0.00915	H F1	mg/Kg	☼	36	79 - 120
1,2-Dichlorobenzene	0.00054	U H	0.0253	0.00440	H F1	mg/Kg	☼	17	80 - 120
1,2-Dichloroethane	0.00045	U H	0.0253	0.0125	H F1	mg/Kg	☼	49	70 - 123
1,2-Dichloropropane	0.00064	U H	0.0253	0.0140	H F1	mg/Kg	☼	55	73 - 124
1,3-Dichlorobenzene	0.00055	U H	0.0253	0.00483	H F1	mg/Kg	☼	19	80 - 120
1,4-Dichlorobenzene	0.00034	U H	0.0253	0.00493	H F1	mg/Kg	☼	19	80 - 120
2-Butanone (MEK)	0.00055	U H	0.127	0.0260	H F1	mg/Kg	☼	21	64 - 128
2-Hexanone	0.0026	U H	0.127	0.00989	H F1	mg/Kg	☼	8	75 - 120
4-Methyl-2-pentanone (MIBK)	0.0023	U H	0.127	0.0273	H F1	mg/Kg	☼	22	80 - 120
Acetone	0.0086	U H	0.127	0.115	H	mg/Kg	☼	91	58 - 122
Benzene	0.00039	U H	0.0253	0.0149	H F1	mg/Kg	☼	59	75 - 120
Bromodichloromethane	0.00039	U H	0.0253	0.0100	H F1	mg/Kg	☼	40	77 - 124
Bromoform	0.00064	U H	0.0253	0.00522	H F1	mg/Kg	☼	21	61 - 125
Bromomethane	0.0015	U *+ H	0.0253	0.0274	H	mg/Kg	☼	108	37 - 150
Carbon disulfide	0.00040	U H	0.0253	0.0145	H	mg/Kg	☼	57	57 - 133
Carbon tetrachloride	0.00058	U H	0.0253	0.0117	H F1	mg/Kg	☼	46	66 - 127
Chlorobenzene	0.00027	U H	0.0253	0.00807	H F1	mg/Kg	☼	32	80 - 120
Chlorobromomethane	0.00042	U H	0.0253	0.0156	H F1	mg/Kg	☼	62	76 - 127
Chloroethane	0.00078	U H	0.0253	0.0189	H	mg/Kg	☼	75	60 - 123
Chloroform	0.0015	U H	0.0253	0.0160	H F1	mg/Kg	☼	63	79 - 126
Chloromethane	0.00065	U H	0.0253	0.0159	H	mg/Kg	☼	63	46 - 122
cis-1,2-Dichloroethene	0.00054	U H	0.0253	0.0143	H F1	mg/Kg	☼	57	80 - 123
cis-1,3-Dichloropropene	0.00041	U H	0.0253	0.00572	H F1	mg/Kg	☼	23	75 - 120
Cyclohexane	0.00033	U H	0.0253	0.0127	H F1	mg/Kg	☼	50	65 - 132
Dibromochloromethane	0.00029	U H	0.0253	0.00778	H F1	mg/Kg	☼	31	72 - 120
Dichlorodifluoromethane	0.00051	U H	0.0253	0.0162	H	mg/Kg	☼	64	45 - 129
Ethylbenzene	0.00030	U H	0.0253	0.00924	H F1	mg/Kg	☼	37	80 - 120
Isopropylbenzene	0.00043	U H	0.0253	0.00777	H F1	mg/Kg	☼	31	74 - 120
Methyl acetate	0.0065	U H	0.0506	0.0190	H F1	mg/Kg	☼	37	57 - 120
Methyl tert-butyl ether	0.00077	U H	0.0253	0.0144	H F1	mg/Kg	☼	57	74 - 125
Methylcyclohexane	0.00075	U H	0.0253	0.00948	H F1	mg/Kg	☼	37	66 - 125
Methylene Chloride	0.0017	U H	0.0253	0.0173	H F1	mg/Kg	☼	69	78 - 120
m-Xylene & p-Xylene	0.00026	U H	0.0253	0.00738	H F1	mg/Kg	☼	29	80 - 120
o-Xylene	0.00029	U H	0.0253	0.00797	H F1	mg/Kg	☼	32	80 - 120
Styrene	0.00042	U H	0.0253	0.00142	H F1	mg/Kg	☼	6	80 - 120
Tetrachloroethene	0.00046	U H	0.0253	0.0101	H F1	mg/Kg	☼	40	73 - 120
Toluene	0.00035	U H	0.0253	0.0115	H F1	mg/Kg	☼	45	80 - 120
trans-1,2-Dichloroethene	0.00037	U H	0.0253	0.0158	H F1	mg/Kg	☼	62	78 - 120
trans-1,3-Dichloropropene	0.00040	U H	0.0253	0.00634	H F1	mg/Kg	☼	25	77 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1018032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	0.00048	U H	0.0253	0.0119	H F1	mg/Kg	☼	47	80 - 120
Trichlorofluoromethane	0.00061	U H	0.0253	0.0170	H	mg/Kg	☼	67	61 - 130
Vinyl chloride	0.00082	U H	0.0253	0.0198	H	mg/Kg	☼	78	54 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 138*
4-Bromofluorobenzene	*116*		*71 - 128*
Dibromofluoromethane (Surr)	*107*		*50 - 150*
Toluene-d8 (Surr)	*113*		*71 - 126*

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1018032

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.00035	U H	0.0374	0.0270	H F1 F2	mg/Kg	☼	72	78 - 120	63	30
1,1,2,2-Tetrachloroethane	0.00032	U H	0.0374	0.0204	H F1 F2	mg/Kg	☼	55	70 - 133	60	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00045	U H	0.0374	0.0325	H F2	mg/Kg	☼	87	75 - 121	64	30
1,1,2-Trichloroethane	0.00027	U H	0.0374	0.0234	H F1 F2	mg/Kg	☼	63	80 - 120	56	30
1,1-Dichloroethane	0.00031	U H	0.0374	0.0306	H F2	mg/Kg	☼	82	72 - 120	58	30
1,1-Dichloroethene	0.00034	U H	0.0374	0.0318	H F2	mg/Kg	☼	85	76 - 120	58	30
1,2,3-Trichlorobenzene	0.00027	U H	0.0374	0.00390	H F1 F2	mg/Kg	☼	10	77 - 137	90	30
1,2,4-Trichlorobenzene	0.00054	U H	0.0374	0.00411	H F1 F2	mg/Kg	☼	11	77 - 136	86	30
1,2-Dibromo-3-Chloropropane	0.00069	U H *-	0.0374	0.0131	H F1 F2	mg/Kg	☼	35	80 - 124	76	30
1,2-Dibromoethane	0.00027	U H	0.0374	0.0175	H F1 F2	mg/Kg	☼	47	79 - 120	63	30
1,2-Dichlorobenzene	0.00054	U H	0.0374	0.0101	H F1 F2	mg/Kg	☼	27	80 - 120	79	30
1,2-Dichloroethane	0.00045	U H	0.0374	0.0221	H F1 F2	mg/Kg	☼	59	70 - 123	56	30
1,2-Dichloropropane	0.00064	U H	0.0374	0.0260	H F1 F2	mg/Kg	☼	69	73 - 124	60	30
1,3-Dichlorobenzene	0.00055	U H	0.0374	0.0112	H F1 F2	mg/Kg	☼	30	80 - 120	79	30
1,4-Dichlorobenzene	0.00034	U H	0.0374	0.0110	H F1 F2	mg/Kg	☼	29	80 - 120	77	30
2-Butanone (MEK)	0.00055	U H	0.187	0.0777	H F1 F2	mg/Kg	☼	42	64 - 128	100	30
2-Hexanone	0.0026	U H	0.187	0.0206	H F1 F2	mg/Kg	☼	11	75 - 120	70	30
4-Methyl-2-pentanone (MIBK)	0.0023	U H	0.187	0.0499	H F1 F2	mg/Kg	☼	27	80 - 120	59	30
Acetone	0.0086	U H	0.187	0.298	H F1 F2	mg/Kg	☼	159	58 - 122	89	30
Benzene	0.00039	U H	0.0374	0.0273	H F1 F2	mg/Kg	☼	73	75 - 120	59	30
Bromodichloromethane	0.00039	U H	0.0374	0.0206	H F1 F2	mg/Kg	☼	55	77 - 124	69	30
Bromoform	0.00064	U H	0.0374	0.0111	H F1 F2	mg/Kg	☼	30	61 - 125	72	30
Bromomethane	0.0015	U *+ H	0.0374	0.0340	H	mg/Kg	☼	91	37 - 150	21	30
Carbon disulfide	0.00040	U H	0.0374	0.0263	H F2	mg/Kg	☼	70	57 - 133	58	30
Carbon tetrachloride	0.00058	U H	0.0374	0.0228	H F1 F2	mg/Kg	☼	61	66 - 127	64	30
Chlorobenzene	0.00027	U H	0.0374	0.0169	H F1 F2	mg/Kg	☼	45	80 - 120	71	30
Chlorobromomethane	0.00042	U H	0.0374	0.0287	H F2	mg/Kg	☼	77	76 - 127	59	30
Chloroethane	0.00078	U H	0.0374	0.0307	H F2	mg/Kg	☼	82	60 - 123	47	30
Chloroform	0.0015	U H	0.0374	0.0291	H F1 F2	mg/Kg	☼	78	79 - 126	58	30
Chloromethane	0.00065	U H	0.0374	0.0229	H F2	mg/Kg	☼	61	46 - 122	36	30
cis-1,2-Dichloroethene	0.00054	U H	0.0374	0.0275	H F1 F2	mg/Kg	☼	73	80 - 123	63	30
cis-1,3-Dichloropropene	0.00041	U H	0.0374	0.0101	H F1 F2	mg/Kg	☼	27	75 - 120	55	30
Cyclohexane	0.00033	U H	0.0374	0.0262	H F2	mg/Kg	☼	70	65 - 132	69	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1018032

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibromochloromethane	0.00029	U H	0.0374	0.0171	H F1 F2	mg/Kg	☼	46	72 - 120	75	30
Dichlorodifluoromethane	0.00051	U H	0.0374	0.0237	H F2	mg/Kg	☼	63	45 - 129	38	30
Ethylbenzene	0.00030	U H	0.0374	0.0191	H F1 F2	mg/Kg	☼	51	80 - 120	69	30
Isopropylbenzene	0.00043	U H	0.0374	0.0167	H F1 F2	mg/Kg	☼	44	74 - 120	73	30
Methyl acetate	0.0065	U H	0.0749	0.0276	H F1 F2	mg/Kg	☼	37	57 - 120	37	30
Methyl tert-butyl ether	0.00077	U H	0.0374	0.0258	H F1 F2	mg/Kg	☼	69	74 - 125	57	30
Methylcyclohexane	0.00075	U H	0.0374	0.0205	H F1 F2	mg/Kg	☼	55	66 - 125	73	30
Methylene Chloride	0.0017	U H	0.0374	0.0305	H F2	mg/Kg	☼	81	78 - 120	55	30
m-Xylene & p-Xylene	0.00026	U H	0.0374	0.0153	H F1 F2	mg/Kg	☼	41	80 - 120	70	30
o-Xylene	0.00029	U H	0.0374	0.0167	H F1 F2	mg/Kg	☼	45	80 - 120	71	30
Styrene	0.00042	U H	0.0374	0.000997	J H F1 F2	mg/Kg	☼	3	80 - 120	35	30
Tetrachloroethene	0.00046	U H	0.0374	0.0204	H F1 F2	mg/Kg	☼	55	73 - 120	68	30
Toluene	0.00035	U H	0.0374	0.0223	H F1 F2	mg/Kg	☼	60	80 - 120	64	30
trans-1,2-Dichloroethene	0.00037	U H	0.0374	0.0291	H F2	mg/Kg	☼	78	78 - 120	59	30
trans-1,3-Dichloropropene	0.00040	U H	0.0374	0.0121	H F1 F2	mg/Kg	☼	32	77 - 120	63	30
Trichloroethene	0.00048	U H	0.0374	0.0231	H F1 F2	mg/Kg	☼	62	80 - 120	64	30
Trichlorofluoromethane	0.00061	U H	0.0374	0.0280	H F2	mg/Kg	☼	75	61 - 130	49	30
Vinyl chloride	0.00082	U H	0.0374	0.0319	H F2	mg/Kg	☼	85	54 - 122	47	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 138*
4-Bromofluorobenzene	*111*		*71 - 128*
Dibromofluoromethane (Surr)	*106*		*50 - 150*
Toluene-d8 (Surr)	*112*		*71 - 126*

Lab Sample ID: MB 460-1018189/9
Matrix: Water
Analysis Batch: 1018189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/27/25 08:57	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/27/25 08:57	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/27/25 08:57	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/27/25 08:57	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/27/25 08:57	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/27/25 08:57	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/27/25 08:57	1
1,4-Dioxane	28	U	50	28	ug/L			01/27/25 08:57	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/27/25 08:57	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/27/25 08:57	1
Acrolein	2.4	U	4.0	2.4	ug/L			01/27/25 08:57	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/27/25 08:57	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/27/25 08:57	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/27/25 08:57	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/27/25 08:57	1
Acetone	4.4	U	5.0	4.4	ug/L			01/27/25 08:57	1
Benzene	0.20	U	1.0	0.20	ug/L			01/27/25 08:57	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/27/25 08:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018189/9
Matrix: Water
Analysis Batch: 1018189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.54	U	1.0	0.54	ug/L			01/27/25 08:57	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/27/25 08:57	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/27/25 08:57	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/27/25 08:57	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/27/25 08:57	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/27/25 08:57	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/27/25 08:57	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/27/25 08:57	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/27/25 08:57	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/27/25 08:57	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/27/25 08:57	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/27/25 08:57	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/27/25 08:57	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/27/25 08:57	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/27/25 08:57	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/27/25 08:57	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/27/25 08:57	1
Styrene	0.42	U	1.0	0.42	ug/L			01/27/25 08:57	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/27/25 08:57	1
Toluene	0.38	U	1.0	0.38	ug/L			01/27/25 08:57	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/27/25 08:57	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/27/25 08:57	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/27/25 08:57	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/27/25 08:57	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/27/25 08:57	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/27/25 08:57	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/27/25 08:57*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 128*		*01/27/25 08:57*	*1*
4-Bromofluorobenzene	*85*		*76 - 120*		*01/27/25 08:57*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 132*		*01/27/25 08:57*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*01/27/25 08:57*	*1*

Lab Sample ID: LCS 460-1018189/4
Matrix: Water
Analysis Batch: 1018189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	16.7		ug/L		84	72 - 128
1,1,2,2-Tetrachloroethane	20.0	24.6		ug/L		123	63 - 139
1,1,2-Trichloroethane	20.0	21.6		ug/L		108	74 - 125
1,1-Dichloroethane	20.0	20.6		ug/L		103	73 - 130
1,1-Dichloroethene	20.0	15.7		ug/L		78	68 - 133
1,2-Dibromo-3-Chloropropane	20.0	21.4		ug/L		107	58 - 132
1,2-Dibromoethane	20.0	20.2		ug/L		101	79 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018189/4
Matrix: Water
Analysis Batch: 1018189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	400	438		ug/L		110	42 - 150
1,2-Dichloroethane	20.0	21.1		ug/L		105	66 - 129
1,2-Dichloropropane	20.0	21.3		ug/L		106	72 - 128
Acrolein	40.0	95.6	*+	ug/L		239	18 - 150
2-Butanone (MEK)	100	73.4		ug/L		73	65 - 142
Acrylonitrile	200	260		ug/L		130	57 - 146
2-Hexanone	100	115		ug/L		115	72 - 134
4-Methyl-2-pentanone (MIBK)	100	113		ug/L		113	77 - 130
Acetone	100	112		ug/L		112	60 - 133
Benzene	20.0	21.1		ug/L		105	71 - 126
Bromodichloromethane	20.0	18.1		ug/L		90	76 - 121
Bromoform	20.0	20.0		ug/L		100	58 - 128
Bromomethane	20.0	18.6		ug/L		93	33 - 150
Carbon disulfide	20.0	17.0		ug/L		85	35 - 150
Carbon tetrachloride	20.0	15.8		ug/L		79	65 - 131
Chlorobenzene	20.0	18.9		ug/L		94	80 - 120
Chloroethane	20.0	21.5		ug/L		108	54 - 150
Chloroform	20.0	18.9		ug/L		94	78 - 125
Chloromethane	20.0	28.1		ug/L		141	43 - 149
cis-1,2-Dichloroethene	20.0	17.0		ug/L		85	78 - 121
cis-1,3-Dichloropropene	20.0	21.4		ug/L		107	74 - 125
Dibromochloromethane	20.0	19.6		ug/L		98	73 - 121
Dichlorodifluoromethane	20.0	23.4		ug/L		117	38 - 144
Ethylbenzene	20.0	18.4		ug/L		92	78 - 120
Methyl acetate	40.0	52.7		ug/L		132	50 - 147
tert-Butyl alcohol	200	218		ug/L		109	64 - 142
Methyl tert-butyl ether	20.0	19.0		ug/L		95	72 - 131
Methylene Chloride	20.0	17.8		ug/L		89	74 - 127
Styrene	20.0	18.7		ug/L		93	82 - 127
Tetrachloroethene	20.0	15.5		ug/L		77	70 - 127
Toluene	20.0	18.7		ug/L		93	78 - 120
Xylenes, Total	40.0	36.6		ug/L		92	80 - 120
trans-1,2-Dichloroethene	20.0	16.1		ug/L		81	70 - 126
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	71 - 127
Trichloroethene	20.0	16.5		ug/L		83	73 - 121
Trichlorofluoromethane	20.0	19.9		ug/L		100	62 - 134
Vinyl chloride	20.0	24.9		ug/L		125	55 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 128*
4-Bromofluorobenzene	*88*		*76 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 132*
Toluene-d8 (Surr)	*107*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018189/5
Matrix: Water
Analysis Batch: 1018189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	17.3		ug/L		86	72 - 128	3	30
1,1,2,2-Tetrachloroethane			20.0	24.8		ug/L		124	63 - 139	1	30
1,1,2-Trichloroethane			20.0	21.8		ug/L		109	74 - 125	1	30
1,1-Dichloroethane			20.0	21.9		ug/L		110	73 - 130	6	30
1,1-Dichloroethene			20.0	16.7		ug/L		84	68 - 133	6	30
1,2-Dibromo-3-Chloropropane			20.0	19.8		ug/L		99	58 - 132	8	30
1,2-Dibromoethane			20.0	20.5		ug/L		102	79 - 126	1	30
1,4-Dioxane			400	412		ug/L		103	42 - 150	6	30
1,2-Dichloroethane			20.0	21.4		ug/L		107	66 - 129	1	30
1,2-Dichloropropane			20.0	22.4		ug/L		112	72 - 128	5	30
Acrolein			40.0	85.6	*+	ug/L		214	18 - 150	11	30
2-Butanone (MEK)			100	74.3		ug/L		74	65 - 142	1	30
Acrylonitrile			200	260		ug/L		130	57 - 146	0	30
2-Hexanone			100	119		ug/L		119	72 - 134	3	30
4-Methyl-2-pentanone (MIBK)			100	116		ug/L		116	77 - 130	3	30
Acetone			100	101		ug/L		101	60 - 133	10	30
Benzene			20.0	22.5		ug/L		112	71 - 126	7	30
Bromodichloromethane			20.0	19.2		ug/L		96	76 - 121	6	30
Bromoform			20.0	20.7		ug/L		104	58 - 128	3	30
Bromomethane			20.0	19.5		ug/L		97	33 - 150	5	30
Carbon disulfide			20.0	18.6		ug/L		93	35 - 150	9	30
Carbon tetrachloride			20.0	17.1		ug/L		86	65 - 131	8	30
Chlorobenzene			20.0	19.3		ug/L		97	80 - 120	2	30
Chloroethane			20.0	21.3		ug/L		107	54 - 150	1	30
Chloroform			20.0	19.6		ug/L		98	78 - 125	4	30
Chloromethane			20.0	29.7		ug/L		149	43 - 149	6	30
cis-1,2-Dichloroethene			20.0	17.0		ug/L		85	78 - 121	0	30
cis-1,3-Dichloropropene			20.0	22.6		ug/L		113	74 - 125	6	30
Dibromochloromethane			20.0	20.1		ug/L		101	73 - 121	2	30
Dichlorodifluoromethane			20.0	25.2		ug/L		126	38 - 144	7	30
Ethylbenzene			20.0	19.8		ug/L		99	78 - 120	7	30
Methyl acetate			40.0	55.8		ug/L		140	50 - 147	6	30
tert-Butyl alcohol			200	191		ug/L		96	64 - 142	13	30
Methyl tert-butyl ether			20.0	19.9		ug/L		99	72 - 131	5	30
Methylene Chloride			20.0	18.1		ug/L		91	74 - 127	2	30
Styrene			20.0	19.4		ug/L		97	82 - 127	4	30
Tetrachloroethene			20.0	16.9		ug/L		85	70 - 127	9	30
Toluene			20.0	19.7		ug/L		99	78 - 120	5	30
Xylenes, Total			40.0	37.6		ug/L		94	80 - 120	3	30
trans-1,2-Dichloroethene			20.0	17.4		ug/L		87	70 - 126	8	30
trans-1,3-Dichloropropene			20.0	21.3		ug/L		106	71 - 127	4	30
Trichloroethene			20.0	17.6		ug/L		88	73 - 121	6	30
Trichlorofluoromethane			20.0	21.5		ug/L		107	62 - 134	8	30
Vinyl chloride			20.0	27.7		ug/L		139	55 - 144	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*
4-Bromofluorobenzene	*88*		*76 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018189/5
Matrix: Water
Analysis Batch: 1018189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*91*		*77 - 132*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 460-1018422/10
Matrix: Solid
Analysis Batch: 1018422

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/28/25 21:33	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/28/25 21:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/28/25 21:33	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/28/25 21:33	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/28/25 21:33	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/28/25 21:33	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/28/25 21:33	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/28/25 21:33	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/28/25 21:33	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/28/25 21:33	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/28/25 21:33	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/28/25 21:33	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/28/25 21:33	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/28/25 21:33	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/28/25 21:33	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/28/25 21:33	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			01/28/25 21:33	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/28/25 21:33	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/28/25 21:33	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/28/25 21:33	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			01/28/25 21:33	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/28/25 21:33	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/28/25 21:33	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/28/25 21:33	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/28/25 21:33	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/28/25 21:33	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/28/25 21:33	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/28/25 21:33	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/28/25 21:33	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/28/25 21:33	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/28/25 21:33	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/28/25 21:33	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/28/25 21:33	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			01/28/25 21:33	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/28/25 21:33	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/28/25 21:33	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/28/25 21:33	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/28/25 21:33	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/28/25 21:33	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/28/25 21:33	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018422/10
Matrix: Solid
Analysis Batch: 1018422

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/28/25 21:33	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/28/25 21:33	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/28/25 21:33	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/28/25 21:33	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/28/25 21:33	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/28/25 21:33	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/28/25 21:33	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/28/25 21:33	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/28/25 21:33	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/28/25 21:33	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/28/25 21:33	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*01/28/25 21:33*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*		*01/28/25 21:33*	*1*
4-Bromofluorobenzene	*85*		*71 - 128*		*01/28/25 21:33*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*		*01/28/25 21:33*	*1*
Toluene-d8 (Surr)	*90*		*71 - 126*		*01/28/25 21:33*	*1*

Lab Sample ID: LCS 460-1018422/7
Matrix: Solid
Analysis Batch: 1018422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0169		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0223		mg/Kg		111	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0201		mg/Kg		100	75 - 121
1,1,2-Trichloroethane	0.0200	0.0201		mg/Kg		100	80 - 120
1,1-Dichloroethane	0.0200	0.0184		mg/Kg		92	72 - 120
1,1-Dichloroethene	0.0200	0.0206		mg/Kg		103	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0197		mg/Kg		98	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0189		mg/Kg		95	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0250	*+	mg/Kg		125	80 - 124
1,2-Dibromoethane	0.0200	0.0208		mg/Kg		104	79 - 120
1,2-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120
1,2-Dichloroethane	0.0200	0.0178		mg/Kg		89	70 - 123
1,2-Dichloropropane	0.0200	0.0195		mg/Kg		97	73 - 124
1,3-Dichlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120
1,4-Dichlorobenzene	0.0200	0.0193		mg/Kg		96	80 - 120
2-Butanone (MEK)	0.100	0.0783		mg/Kg		78	64 - 128
2-Hexanone	0.100	0.0748		mg/Kg		75	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0742	*-	mg/Kg		74	80 - 120
Acetone	0.100	0.0680		mg/Kg		68	58 - 122
Benzene	0.0200	0.0178		mg/Kg		89	75 - 120
Bromodichloromethane	0.0200	0.0187		mg/Kg		94	77 - 124

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018422/7
Matrix: Solid
Analysis Batch: 1018422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	0.0200	0.0207		mg/Kg		103	61 - 125
Bromomethane	0.0200	0.0254		mg/Kg		127	37 - 150
Carbon disulfide	0.0200	0.0194		mg/Kg		97	57 - 133
Carbon tetrachloride	0.0200	0.0162		mg/Kg		81	66 - 127
Chlorobenzene	0.0200	0.0189		mg/Kg		94	80 - 120
Chlorobromomethane	0.0200	0.0251		mg/Kg		125	76 - 127
Chloroethane	0.0200	0.0185		mg/Kg		92	60 - 123
Chloroform	0.0200	0.0187		mg/Kg		94	79 - 126
Chloromethane	0.0200	0.0160		mg/Kg		80	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0211		mg/Kg		105	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0177		mg/Kg		88	75 - 120
Cyclohexane	0.0200	0.0211		mg/Kg		105	65 - 132
Dibromochloromethane	0.0200	0.0187		mg/Kg		94	72 - 120
Dichlorodifluoromethane	0.0200	0.0188		mg/Kg		94	45 - 129
Ethylbenzene	0.0200	0.0187		mg/Kg		93	80 - 120
Isopropylbenzene	0.0200	0.0175		mg/Kg		87	74 - 120
Methyl acetate	0.0400	0.0438		mg/Kg		110	57 - 120
Methyl tert-butyl ether	0.0200	0.0210		mg/Kg		105	74 - 125
Methylcyclohexane	0.0200	0.0208		mg/Kg		104	66 - 125
Methylene Chloride	0.0200	0.0209		mg/Kg		105	78 - 120
m-Xylene & p-Xylene	0.0200	0.0186		mg/Kg		93	80 - 120
o-Xylene	0.0200	0.0189		mg/Kg		94	80 - 120
Styrene	0.0200	0.0195		mg/Kg		98	80 - 120
Tetrachloroethene	0.0200	0.0182		mg/Kg		91	73 - 120
Toluene	0.0200	0.0178		mg/Kg		89	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0209		mg/Kg		104	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0176		mg/Kg		88	77 - 120
Trichloroethene	0.0200	0.0199		mg/Kg		99	80 - 120
Trichlorofluoromethane	0.0200	0.0171		mg/Kg		85	61 - 130
Vinyl chloride	0.0200	0.0198		mg/Kg		99	54 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 138*
4-Bromofluorobenzene	*85*		*71 - 128*
Dibromofluoromethane (Surr)	*107*		*50 - 150*
Toluene-d8 (Surr)	*89*		*71 - 126*

Lab Sample ID: LCSD 460-1018422/8
Matrix: Solid
Analysis Batch: 1018422

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0174		mg/Kg		87	78 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0200	0.0231		mg/Kg		116	70 - 133	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0207		mg/Kg		104	75 - 121	3	30
1,1,2-Trichloroethane	0.0200	0.0212		mg/Kg		106	80 - 120	6	30
1,1-Dichloroethane	0.0200	0.0188		mg/Kg		94	72 - 120	2	30
1,1-Dichloroethene	0.0200	0.0215		mg/Kg		107	76 - 120	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018422/8
Matrix: Solid
Analysis Batch: 1018422

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene			0.0200	0.0209		mg/Kg		105	77 - 137	6	30
1,2,4-Trichlorobenzene			0.0200	0.0196		mg/Kg		98	77 - 136	3	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0259	*+	mg/Kg		129	80 - 124	3	30
1,2-Dibromoethane			0.0200	0.0224		mg/Kg		112	79 - 120	7	30
1,2-Dichlorobenzene			0.0200	0.0201		mg/Kg		100	80 - 120	2	30
1,2-Dichloroethane			0.0200	0.0186		mg/Kg		93	70 - 123	4	30
1,2-Dichloropropane			0.0200	0.0205		mg/Kg		103	73 - 124	5	30
1,3-Dichlorobenzene			0.0200	0.0197		mg/Kg		99	80 - 120	3	30
1,4-Dichlorobenzene			0.0200	0.0203		mg/Kg		101	80 - 120	5	30
2-Butanone (MEK)			0.100	0.0803		mg/Kg		80	64 - 128	3	30
2-Hexanone			0.100	0.0777		mg/Kg		78	75 - 120	4	30
4-Methyl-2-pentanone (MIBK)			0.100	0.0758	*-	mg/Kg		76	80 - 120	2	30
Acetone			0.100	0.0695		mg/Kg		70	58 - 122	2	30
Benzene			0.0200	0.0186		mg/Kg		93	75 - 120	4	30
Bromodichloromethane			0.0200	0.0196		mg/Kg		98	77 - 124	4	30
Bromoform			0.0200	0.0217		mg/Kg		109	61 - 125	5	30
Bromomethane			0.0200	0.0236		mg/Kg		118	37 - 150	8	30
Carbon disulfide			0.0200	0.0197		mg/Kg		98	57 - 133	2	30
Carbon tetrachloride			0.0200	0.0167		mg/Kg		84	66 - 127	3	30
Chlorobenzene			0.0200	0.0199		mg/Kg		100	80 - 120	5	30
Chlorobromomethane			0.0200	0.0256	*+	mg/Kg		128	76 - 127	2	30
Chloroethane			0.0200	0.0166		mg/Kg		83	60 - 123	11	30
Chloroform			0.0200	0.0194		mg/Kg		97	79 - 126	3	30
Chloromethane			0.0200	0.0148		mg/Kg		74	46 - 122	8	30
cis-1,2-Dichloroethene			0.0200	0.0218		mg/Kg		109	80 - 123	4	30
cis-1,3-Dichloropropene			0.0200	0.0186		mg/Kg		93	75 - 120	5	30
Cyclohexane			0.0200	0.0219		mg/Kg		109	65 - 132	4	30
Dibromochloromethane			0.0200	0.0198		mg/Kg		99	72 - 120	6	30
Dichlorodifluoromethane			0.0200	0.0172		mg/Kg		86	45 - 129	9	30
Ethylbenzene			0.0200	0.0194		mg/Kg		97	80 - 120	4	30
Isopropylbenzene			0.0200	0.0183		mg/Kg		92	74 - 120	5	30
Methyl acetate			0.0400	0.0466		mg/Kg		116	57 - 120	6	30
Methyl tert-butyl ether			0.0200	0.0221		mg/Kg		111	74 - 125	5	30
Methylcyclohexane			0.0200	0.0216		mg/Kg		108	66 - 125	4	30
Methylene Chloride			0.0200	0.0216		mg/Kg		108	78 - 120	3	30
m-Xylene & p-Xylene			0.0200	0.0195		mg/Kg		98	80 - 120	5	30
o-Xylene			0.0200	0.0198		mg/Kg		99	80 - 120	5	30
Styrene			0.0200	0.0203		mg/Kg		101	80 - 120	4	30
Tetrachloroethene			0.0200	0.0190		mg/Kg		95	73 - 120	5	30
Toluene			0.0200	0.0188		mg/Kg		94	80 - 120	5	30
trans-1,2-Dichloroethene			0.0200	0.0214		mg/Kg		107	78 - 120	3	30
trans-1,3-Dichloropropene			0.0200	0.0188		mg/Kg		94	77 - 120	6	30
Trichloroethene			0.0200	0.0203		mg/Kg		101	80 - 120	2	30
Trichlorofluoromethane			0.0200	0.0157		mg/Kg		78	61 - 130	8	30
Vinyl chloride			0.0200	0.0180		mg/Kg		90	54 - 122	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 138*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018422/8
Matrix: Solid
Analysis Batch: 1018422

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*84*		*71 - 128*
Dibromofluoromethane (Surr)	*108*		*50 - 150*
Toluene-d8 (Surr)	*91*		*71 - 126*

Lab Sample ID: MB 460-1024023/7
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 23:47	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/04/25 23:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/04/25 23:47	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 23:47	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/04/25 23:47	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 23:47	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 23:47	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 23:47	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			03/04/25 23:47	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 23:47	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 23:47	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/04/25 23:47	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			03/04/25 23:47	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			03/04/25 23:47	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 23:47	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			03/04/25 23:47	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			03/04/25 23:47	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			03/04/25 23:47	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			03/04/25 23:47	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			03/04/25 23:47	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			03/04/25 23:47	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			03/04/25 23:47	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			03/04/25 23:47	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 23:47	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			03/04/25 23:47	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/04/25 23:47	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			03/04/25 23:47	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			03/04/25 23:47	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			03/04/25 23:47	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			03/04/25 23:47	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			03/04/25 23:47	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 23:47	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			03/04/25 23:47	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			03/04/25 23:47	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			03/04/25 23:47	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			03/04/25 23:47	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			03/04/25 23:47	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			03/04/25 23:47	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			03/04/25 23:47	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1024023/7
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			03/04/25 23:47	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			03/04/25 23:47	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			03/04/25 23:47	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			03/04/25 23:47	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			03/04/25 23:47	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			03/04/25 23:47	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			03/04/25 23:47	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			03/04/25 23:47	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/04/25 23:47	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			03/04/25 23:47	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			03/04/25 23:47	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			03/04/25 23:47	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*03/04/25 23:47*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*		*03/04/25 23:47*	*1*
4-Bromofluorobenzene	*105*		*71 - 128*		*03/04/25 23:47*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 150*		*03/04/25 23:47*	*1*
Toluene-d8 (Surr)	*107*		*71 - 126*		*03/04/25 23:47*	*1*

Lab Sample ID: LCS 460-1024023/2
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0183		mg/Kg		91	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0200		mg/Kg		100	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0212		mg/Kg		106	75 - 121
1,1,2-Trichloroethane	0.0200	0.0202		mg/Kg		101	80 - 120
1,1-Dichloroethane	0.0200	0.0198		mg/Kg		99	72 - 120
1,1-Dichloroethene	0.0200	0.0205		mg/Kg		103	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0176		mg/Kg		88	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0170		mg/Kg		85	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0167		mg/Kg		84	80 - 124
1,2-Dibromoethane	0.0200	0.0179		mg/Kg		90	79 - 120
1,2-Dichlorobenzene	0.0200	0.0185		mg/Kg		93	80 - 120
1,2-Dichloroethane	0.0200	0.0169		mg/Kg		84	70 - 123
1,2-Dichloropropane	0.0200	0.0192		mg/Kg		96	73 - 124
1,3-Dichlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 120
1,4-Dichlorobenzene	0.0200	0.0189		mg/Kg		95	80 - 120
2-Butanone (MEK)	0.100	0.0921		mg/Kg		92	64 - 128
2-Hexanone	0.100	0.0854		mg/Kg		85	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0893		mg/Kg		89	80 - 120
Acetone	0.100	0.0869		mg/Kg		87	58 - 122
Benzene	0.0200	0.0210		mg/Kg		105	75 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1024023/2
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	0.0200	0.0179		mg/Kg		90	77 - 124
Bromoform	0.0200	0.0159		mg/Kg		79	61 - 125
Bromomethane	0.0200	0.0500	*+	mg/Kg		250	37 - 150
Carbon disulfide	0.0200	0.0194		mg/Kg		97	57 - 133
Carbon tetrachloride	0.0200	0.0173		mg/Kg		87	66 - 127
Chlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120
Chlorobromomethane	0.0200	0.0177		mg/Kg		88	76 - 127
Chloroethane	0.0200	0.0194		mg/Kg		97	60 - 123
Chloroform	0.0200	0.0190		mg/Kg		95	79 - 126
Chloromethane	0.0200	0.0177		mg/Kg		89	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0192		mg/Kg		96	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0189		mg/Kg		95	75 - 120
Cyclohexane	0.0200	0.0200		mg/Kg		100	65 - 132
Dibromochloromethane	0.0200	0.0169		mg/Kg		84	72 - 120
Dichlorodifluoromethane	0.0200	0.0144		mg/Kg		72	45 - 129
Ethylbenzene	0.0200	0.0190		mg/Kg		95	80 - 120
Isopropylbenzene	0.0200	0.0185		mg/Kg		92	74 - 120
Methyl acetate	0.0400	0.0367		mg/Kg		92	57 - 120
Methyl tert-butyl ether	0.0200	0.0180		mg/Kg		90	74 - 125
Methylcyclohexane	0.0200	0.0195		mg/Kg		98	66 - 125
Methylene Chloride	0.0200	0.0182		mg/Kg		91	78 - 120
m-Xylene & p-Xylene	0.0200	0.0182		mg/Kg		91	80 - 120
o-Xylene	0.0200	0.0189		mg/Kg		95	80 - 120
Styrene	0.0200	0.0183		mg/Kg		91	80 - 120
Tetrachloroethene	0.0200	0.0186		mg/Kg		93	73 - 120
Toluene	0.0200	0.0203		mg/Kg		102	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0194		mg/Kg		97	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0170		mg/Kg		85	77 - 120
Trichloroethene	0.0200	0.0188		mg/Kg		94	80 - 120
Trichlorofluoromethane	0.0200	0.0190		mg/Kg		95	61 - 130
Vinyl chloride	0.0200	0.0203		mg/Kg		101	54 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*
4-Bromofluorobenzene	*99*		*71 - 128*
Dibromofluoromethane (Surr)	*100*		*50 - 150*
Toluene-d8 (Surr)	*107*		*71 - 126*

Lab Sample ID: LCSD 460-1024023/3
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0183		mg/Kg		92	78 - 120	0	30
1,1,2,2-Tetrachloroethane	0.0200	0.0201		mg/Kg		100	70 - 133	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0210		mg/Kg		105	75 - 121	1	30
1,1,2-Trichloroethane	0.0200	0.0191		mg/Kg		95	80 - 120	5	30
1,1-Dichloroethane	0.0200	0.0196		mg/Kg		98	72 - 120	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1024023/3
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0200	0.0207		mg/Kg		103	76 - 120	1	30
1,2,3-Trichlorobenzene	0.0200	0.0166		mg/Kg		83	77 - 137	6	30
1,2,4-Trichlorobenzene	0.0200	0.0155		mg/Kg		78	77 - 136	9	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0156	*-	mg/Kg		78	80 - 124	7	30
1,2-Dibromoethane	0.0200	0.0172		mg/Kg		86	79 - 120	4	30
1,2-Dichlorobenzene	0.0200	0.0178		mg/Kg		89	80 - 120	4	30
1,2-Dichloroethane	0.0200	0.0172		mg/Kg		86	70 - 123	2	30
1,2-Dichloropropane	0.0200	0.0187		mg/Kg		93	73 - 124	3	30
1,3-Dichlorobenzene	0.0200	0.0180		mg/Kg		90	80 - 120	7	30
1,4-Dichlorobenzene	0.0200	0.0182		mg/Kg		91	80 - 120	4	30
2-Butanone (MEK)	0.100	0.0870		mg/Kg		87	64 - 128	6	30
2-Hexanone	0.100	0.0836		mg/Kg		84	75 - 120	2	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0882		mg/Kg		88	80 - 120	1	30
Acetone	0.100	0.0852		mg/Kg		85	58 - 122	2	30
Benzene	0.0200	0.0207		mg/Kg		103	75 - 120	1	30
Bromodichloromethane	0.0200	0.0178		mg/Kg		89	77 - 124	1	30
Bromoform	0.0200	0.0148		mg/Kg		74	61 - 125	7	30
Bromomethane	0.0200	0.0523	*+	mg/Kg		262	37 - 150	5	30
Carbon disulfide	0.0200	0.0195		mg/Kg		98	57 - 133	0	30
Carbon tetrachloride	0.0200	0.0171		mg/Kg		85	66 - 127	2	30
Chlorobenzene	0.0200	0.0182		mg/Kg		91	80 - 120	5	30
Chlorobromomethane	0.0200	0.0176		mg/Kg		88	76 - 127	1	30
Chloroethane	0.0200	0.0195		mg/Kg		98	60 - 123	1	30
Chloroform	0.0200	0.0191		mg/Kg		96	79 - 126	0	30
Chloromethane	0.0200	0.0178		mg/Kg		89	46 - 122	1	30
cis-1,2-Dichloroethene	0.0200	0.0190		mg/Kg		95	80 - 123	1	30
cis-1,3-Dichloropropene	0.0200	0.0183		mg/Kg		92	75 - 120	3	30
Cyclohexane	0.0200	0.0193		mg/Kg		96	65 - 132	4	30
Dibromochloromethane	0.0200	0.0168		mg/Kg		84	72 - 120	0	30
Dichlorodifluoromethane	0.0200	0.0158		mg/Kg		79	45 - 129	10	30
Ethylbenzene	0.0200	0.0182		mg/Kg		91	80 - 120	4	30
Isopropylbenzene	0.0200	0.0178		mg/Kg		89	74 - 120	4	30
Methyl acetate	0.0400	0.0355		mg/Kg		89	57 - 120	3	30
Methyl tert-butyl ether	0.0200	0.0182		mg/Kg		91	74 - 125	1	30
Methylcyclohexane	0.0200	0.0180		mg/Kg		90	66 - 125	8	30
Methylene Chloride	0.0200	0.0182		mg/Kg		91	78 - 120	0	30
m-Xylene & p-Xylene	0.0200	0.0174		mg/Kg		87	80 - 120	5	30
o-Xylene	0.0200	0.0180		mg/Kg		90	80 - 120	5	30
Styrene	0.0200	0.0178		mg/Kg		89	80 - 120	2	30
Tetrachloroethene	0.0200	0.0171		mg/Kg		85	73 - 120	8	30
Toluene	0.0200	0.0197		mg/Kg		98	80 - 120	3	30
trans-1,2-Dichloroethene	0.0200	0.0195		mg/Kg		98	78 - 120	1	30
trans-1,3-Dichloropropene	0.0200	0.0169		mg/Kg		84	77 - 120	1	30
Trichloroethene	0.0200	0.0184		mg/Kg		92	80 - 120	2	30
Trichlorofluoromethane	0.0200	0.0191		mg/Kg		95	61 - 130	0	30
Vinyl chloride	0.0200	0.0203		mg/Kg		102	54 - 122	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1024023/3
Matrix: Solid
Analysis Batch: 1024023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*
4-Bromofluorobenzene	*102*		*71 - 128*
Dibromofluoromethane (Surr)	*105*		*50 - 150*
Toluene-d8 (Surr)	*108*		*71 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-1018078/1-A
Matrix: Water
Analysis Batch: 1018087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		01/25/25 11:53	01/25/25 16:14	1
1,2,4-Trichlorobenzene	0.64	U	2.0	0.64	ug/L		01/25/25 11:53	01/25/25 16:14	1
1,2-Dichlorobenzene	0.50	U	10	0.50	ug/L		01/25/25 11:53	01/25/25 16:14	1
1,2-Diphenylhydrazine	0.79	U	10	0.79	ug/L		01/25/25 11:53	01/25/25 16:14	1
1,3-Dichlorobenzene	2.0	U	10	2.0	ug/L		01/25/25 11:53	01/25/25 16:14	1
1,4-Dichlorobenzene	1.1	U	10	1.1	ug/L		01/25/25 11:53	01/25/25 16:14	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		01/25/25 11:53	01/25/25 16:14	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		01/25/25 11:53	01/25/25 16:14	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		01/25/25 11:53	01/25/25 16:14	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		01/25/25 11:53	01/25/25 16:14	1
2,4-Dinitrophenol	11	U	40	11	ug/L		01/25/25 11:53	01/25/25 16:14	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		01/25/25 11:53	01/25/25 16:14	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		01/25/25 11:53	01/25/25 16:14	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		01/25/25 11:53	01/25/25 16:14	1
2-Chlorophenol	0.95	U	10	0.95	ug/L		01/25/25 11:53	01/25/25 16:14	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		01/25/25 11:53	01/25/25 16:14	1
2-Methylphenol	0.67	U	10	0.67	ug/L		01/25/25 11:53	01/25/25 16:14	1
2-Nitroaniline	1.2	U	10	1.2	ug/L		01/25/25 11:53	01/25/25 16:14	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		01/25/25 11:53	01/25/25 16:14	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		01/25/25 11:53	01/25/25 16:14	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		01/25/25 11:53	01/25/25 16:14	1
4,6-Dinitro-2-methylphenol	8.6	U	20	8.6	ug/L		01/25/25 11:53	01/25/25 16:14	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		01/25/25 11:53	01/25/25 16:14	1
4-Chloro-3-methylphenol	1.3	U	10	1.3	ug/L		01/25/25 11:53	01/25/25 16:14	1
4-Chloroaniline	1.9	U	10	1.9	ug/L		01/25/25 11:53	01/25/25 16:14	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		01/25/25 11:53	01/25/25 16:14	1
4-Methylphenol	0.65	U	10	0.65	ug/L		01/25/25 11:53	01/25/25 16:14	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		01/25/25 11:53	01/25/25 16:14	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		01/25/25 11:53	01/25/25 16:14	1
Acenaphthene	1.1	U	10	1.1	ug/L		01/25/25 11:53	01/25/25 16:14	1
Acenaphthylene	0.82	U	10	0.82	ug/L		01/25/25 11:53	01/25/25 16:14	1
Acetophenone	2.3	U	10	2.3	ug/L		01/25/25 11:53	01/25/25 16:14	1
Anthracene	1.3	U	10	1.3	ug/L		01/25/25 11:53	01/25/25 16:14	1
Atrazine	1.3	U	2.0	1.3	ug/L		01/25/25 11:53	01/25/25 16:14	1
Benzaldehyde	2.1	U	10	2.1	ug/L		01/25/25 11:53	01/25/25 16:14	1
Benzidine	2.8	U	20	2.8	ug/L		01/25/25 11:53	01/25/25 16:14	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		01/25/25 11:53	01/25/25 16:14	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018078/1-A
Matrix: Water
Analysis Batch: 1018087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		01/25/25 11:53	01/25/25 16:14	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		01/25/25 11:53	01/25/25 16:14	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		01/25/25 11:53	01/25/25 16:14	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		01/25/25 11:53	01/25/25 16:14	1
bis (2-chloroisopropyl) ether	0.63	U	10	0.63	ug/L		01/25/25 11:53	01/25/25 16:14	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		01/25/25 11:53	01/25/25 16:14	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		01/25/25 11:53	01/25/25 16:14	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		01/25/25 11:53	01/25/25 16:14	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		01/25/25 11:53	01/25/25 16:14	1
Caprolactam	2.2	U	10	2.2	ug/L		01/25/25 11:53	01/25/25 16:14	1
Carbazole	0.68	U	10	0.68	ug/L		01/25/25 11:53	01/25/25 16:14	1
Chrysene	0.91	U	2.0	0.91	ug/L		01/25/25 11:53	01/25/25 16:14	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		01/25/25 11:53	01/25/25 16:14	1
Dibenzofuran	1.1	U	10	1.1	ug/L		01/25/25 11:53	01/25/25 16:14	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		01/25/25 11:53	01/25/25 16:14	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		01/25/25 11:53	01/25/25 16:14	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		01/25/25 11:53	01/25/25 16:14	1
Di-n-octyl phthalate	4.0	U	10	4.0	ug/L		01/25/25 11:53	01/25/25 16:14	1
Fluoranthene	0.84	U	10	0.84	ug/L		01/25/25 11:53	01/25/25 16:14	1
Fluorene	0.91	U	10	0.91	ug/L		01/25/25 11:53	01/25/25 16:14	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		01/25/25 11:53	01/25/25 16:14	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		01/25/25 11:53	01/25/25 16:14	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		01/25/25 11:53	01/25/25 16:14	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		01/25/25 11:53	01/25/25 16:14	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		01/25/25 11:53	01/25/25 16:14	1
Isophorone	0.80	U	10	0.80	ug/L		01/25/25 11:53	01/25/25 16:14	1
Naphthalene	0.54	U	2.0	0.54	ug/L		01/25/25 11:53	01/25/25 16:14	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		01/25/25 11:53	01/25/25 16:14	1
N-Nitrosodimethylamine	0.45	U	10	0.45	ug/L		01/25/25 11:53	01/25/25 16:14	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		01/25/25 11:53	01/25/25 16:14	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		01/25/25 11:53	01/25/25 16:14	1
Pentachlorophenol	6.6	U	20	6.6	ug/L		01/25/25 11:53	01/25/25 16:14	1
Phenanthrene	1.3	U	10	1.3	ug/L		01/25/25 11:53	01/25/25 16:14	1
Phenol	0.29	U	10	0.29	ug/L		01/25/25 11:53	01/25/25 16:14	1
Pyrene	1.6	U	10	1.6	ug/L		01/25/25 11:53	01/25/25 16:14	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*01/25/25 11:53*	*01/25/25 16:14*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*37 - 150*	*01/25/25 11:53*	*01/25/25 16:14*	*1*
2-Fluorobiphenyl	*78*		*46 - 139*	*01/25/25 11:53*	*01/25/25 16:14*	*1*
2-Fluorophenol (Surr)	*44*		*16 - 80*	*01/25/25 11:53*	*01/25/25 16:14*	*1*
Nitrobenzene-d5 (Surr)	*80*		*51 - 145*	*01/25/25 11:53*	*01/25/25 16:14*	*1*
Phenol-d5 (Surr)	*29*		*10 - 56*	*01/25/25 11:53*	*01/25/25 16:14*	*1*
Terphenyl-d14 (Surr)	*29*		*13 - 159*	*01/25/25 11:53*	*01/25/25 16:14*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018078/2-A
Matrix: Water
Analysis Batch: 1018087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	68.9		ug/L		86	52 - 129
1,2,4-Trichlorobenzene	80.0	67.2		ug/L		84	20 - 135
1,2-Dichlorobenzene	80.0	65.8		ug/L		82	18 - 128
1,2-Diphenylhydrazine	80.0	73.1		ug/L		91	58 - 130
1,3-Dichlorobenzene	80.0	64.7		ug/L		81	11 - 130
1,4-Dichlorobenzene	80.0	65.9		ug/L		82	14 - 129
2,4,5-Trichlorophenol	80.0	69.1		ug/L		86	63 - 124
2,4,6-Trichlorophenol	80.0	69.5		ug/L		87	66 - 131
2,4-Dichlorophenol	80.0	66.2		ug/L		83	60 - 120
2,4-Dimethylphenol	80.0	75.0		ug/L		94	37 - 120
2,4-Dinitrophenol	160	133		ug/L		83	50 - 148
2,4-Dinitrotoluene	80.0	77.7		ug/L		97	71 - 142
2,6-Dinitrotoluene	80.0	76.6		ug/L		96	71 - 136
2-Chloronaphthalene	80.0	66.8		ug/L		84	50 - 129
2-Chlorophenol	80.0	59.5		ug/L		74	49 - 120
2-Methylnaphthalene	80.0	63.4		ug/L		79	42 - 134
2-Methylphenol	80.0	56.2		ug/L		70	35 - 120
2-Nitroaniline	80.0	70.7		ug/L		88	57 - 134
2-Nitrophenol	80.0	66.1		ug/L		83	62 - 124
3,3'-Dichlorobenzidine	80.0	56.1		ug/L		70	55 - 145
3-Nitroaniline	80.0	53.9		ug/L		67	51 - 120
4,6-Dinitro-2-methylphenol	160	144		ug/L		90	65 - 145
4-Bromophenyl phenyl ether	80.0	70.5		ug/L		88	59 - 132
4-Chloro-3-methylphenol	80.0	68.0		ug/L		85	54 - 120
4-Chloroaniline	80.0	50.1		ug/L		63	43 - 120
4-Chlorophenyl phenyl ether	80.0	74.7		ug/L		93	65 - 127
4-Methylphenol	80.0	52.2		ug/L		65	28 - 120
4-Nitroaniline	80.0	66.9		ug/L		84	57 - 135
4-Nitrophenol	160	75.0		ug/L		47	10 - 120
Acenaphthene	80.0	70.1		ug/L		88	62 - 127
Acenaphthylene	80.0	73.7		ug/L		92	58 - 122
Acetophenone	80.0	73.5		ug/L		92	65 - 125
Anthracene	80.0	69.6		ug/L		87	67 - 127
Atrazine	40.0	43.1		ug/L		108	13 - 150
Benzaldehyde	40.0	39.6		ug/L		99	10 - 150
Benzidine	80.0	27.9		ug/L		35	10 - 120
Benzo[a]anthracene	80.0	69.0		ug/L		86	71 - 131
Benzo[a]pyrene	80.0	80.2		ug/L		100	75 - 148
Benzo[b]fluoranthene	80.0	73.6		ug/L		92	70 - 140
Benzo[g,h,i]perylene	80.0	73.5		ug/L		92	52 - 143
Benzo[k]fluoranthene	80.0	78.4		ug/L		98	71 - 140
bis (2-chloroisopropyl) ether	80.0	73.2		ug/L		91	47 - 133
Bis(2-chloroethoxy)methane	80.0	71.9		ug/L		90	63 - 122
Bis(2-chloroethyl)ether	80.0	69.2		ug/L		86	61 - 125
Bis(2-ethylhexyl) phthalate	80.0	77.7		ug/L		97	65 - 144
Butyl benzyl phthalate	80.0	74.1		ug/L		93	67 - 141
Caprolactam	40.0	9.38	J	ug/L		23	10 - 120
Carbazole	80.0	68.5		ug/L		86	68 - 132

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018078/2-A
Matrix: Water
Analysis Batch: 1018087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chrysene	80.0	69.7		ug/L		87	70 - 132
Dibenz(a,h)anthracene	80.0	70.7		ug/L		88	53 - 150
Dibenzofuran	80.0	70.7		ug/L		88	64 - 125
Diethyl phthalate	80.0	74.4		ug/L		93	67 - 131
Dimethyl phthalate	80.0	74.5		ug/L		93	67 - 129
Di-n-butyl phthalate	80.0	71.6		ug/L		90	71 - 139
Di-n-octyl phthalate	80.0	79.7		ug/L		100	51 - 150
Fluoranthene	80.0	69.6		ug/L		87	69 - 137
Fluorene	80.0	75.0		ug/L		94	67 - 125
Hexachlorobenzene	80.0	71.3		ug/L		89	62 - 135
Hexachlorobutadiene	80.0	66.9		ug/L		84	10 - 147
Hexachlorocyclopentadiene	80.0	84.6		ug/L		106	10 - 135
Hexachloroethane	80.0	69.9		ug/L		87	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	72.4		ug/L		90	59 - 150
Isophorone	80.0	74.8		ug/L		94	65 - 128
Naphthalene	80.0	68.6		ug/L		86	39 - 126
Nitrobenzene	80.0	75.8		ug/L		95	66 - 127
N-Nitrosodimethylamine	80.0	33.1		ug/L		41	11 - 120
N-Nitrosodi-n-propylamine	80.0	78.6		ug/L		98	63 - 133
N-Nitrosodiphenylamine	80.0	69.8		ug/L		87	66 - 128
Pentachlorophenol	160	137		ug/L		86	60 - 140
Phenanthrene	80.0	69.1		ug/L		86	68 - 126
Phenol	80.0	29.6		ug/L		37	10 - 80
Pyrene	80.0	74.1		ug/L		93	60 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*37 - 150*
2-Fluorobiphenyl	*77*		*46 - 139*
2-Fluorophenol (Surr)	*45*		*16 - 80*
Nitrobenzene-d5 (Surr)	*81*		*51 - 145*
Phenol-d5 (Surr)	*33*		*10 - 56*
Terphenyl-d14 (Surr)	*65*		*13 - 159*

Lab Sample ID: LCSD 460-1018078/3-A
Matrix: Water
Analysis Batch: 1018087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018078

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	70.1		ug/L		88	52 - 129	2	30
1,2,4-Trichlorobenzene	80.0	67.0		ug/L		84	20 - 135	0	30
1,2-Dichlorobenzene	80.0	65.9		ug/L		82	18 - 128	0	30
1,2-Diphenylhydrazine	80.0	73.9		ug/L		92	58 - 130	1	30
1,3-Dichlorobenzene	80.0	63.9		ug/L		80	11 - 130	1	30
1,4-Dichlorobenzene	80.0	65.6		ug/L		82	14 - 129	0	30
2,4,5-Trichlorophenol	80.0	68.6		ug/L		86	63 - 124	1	30
2,4,6-Trichlorophenol	80.0	70.5		ug/L		88	66 - 131	1	30
2,4-Dichlorophenol	80.0	66.0		ug/L		83	60 - 120	0	30
2,4-Dimethylphenol	80.0	76.0		ug/L		95	37 - 120	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1018078/3-A
Matrix: Water
Analysis Batch: 1018087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018078

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dinitrophenol			160	133		ug/L		83	50 - 148	0	30
2,4-Dinitrotoluene			80.0	76.9		ug/L		96	71 - 142	1	30
2,6-Dinitrotoluene			80.0	75.3		ug/L		94	71 - 136	2	30
2-Chloronaphthalene			80.0	67.3		ug/L		84	50 - 129	1	30
2-Chlorophenol			80.0	60.2		ug/L		75	49 - 120	1	30
2-Methylnaphthalene			80.0	63.9		ug/L		80	42 - 134	1	30
2-Methylphenol			80.0	56.7		ug/L		71	35 - 120	1	30
2-Nitroaniline			80.0	70.8		ug/L		88	57 - 134	0	30
2-Nitrophenol			80.0	66.6		ug/L		83	62 - 124	1	30
3,3'-Dichlorobenzidine			80.0	57.1		ug/L		71	55 - 145	2	30
3-Nitroaniline			80.0	54.0		ug/L		68	51 - 120	0	30
4,6-Dinitro-2-methylphenol			160	145		ug/L		91	65 - 145	0	30
4-Bromophenyl phenyl ether			80.0	71.1		ug/L		89	59 - 132	1	30
4-Chloro-3-methylphenol			80.0	69.0		ug/L		86	54 - 120	1	30
4-Chloroaniline			80.0	50.8		ug/L		64	43 - 120	1	30
4-Chlorophenyl phenyl ether			80.0	73.4		ug/L		92	65 - 127	2	30
4-Methylphenol			80.0	51.9		ug/L		65	28 - 120	1	30
4-Nitroaniline			80.0	68.3		ug/L		85	57 - 135	2	30
4-Nitrophenol			160	74.2		ug/L		46	10 - 120	1	30
Acenaphthene			80.0	69.7		ug/L		87	62 - 127	1	30
Acenaphthylene			80.0	74.5		ug/L		93	58 - 122	1	30
Acetophenone			80.0	74.0		ug/L		92	65 - 125	1	30
Anthracene			80.0	70.1		ug/L		88	67 - 127	1	30
Atrazine			40.0	43.4		ug/L		109	13 - 150	1	30
Benzaldehyde			40.0	39.5		ug/L		99	10 - 150	0	30
Benzidine			80.0	28.6		ug/L		36	10 - 120	3	30
Benzo[a]anthracene			80.0	68.8		ug/L		86	71 - 131	0	30
Benzo[a]pyrene			80.0	80.7		ug/L		101	75 - 148	1	30
Benzo[b]fluoranthene			80.0	74.2		ug/L		93	70 - 140	1	30
Benzo[g,h,i]perylene			80.0	71.6		ug/L		90	52 - 143	3	30
Benzo[k]fluoranthene			80.0	79.1		ug/L		99	71 - 140	1	30
bis (2-chloroisopropyl) ether			80.0	72.6		ug/L		91	47 - 133	1	30
Bis(2-chloroethoxy)methane			80.0	70.4		ug/L		88	63 - 122	2	30
Bis(2-chloroethyl)ether			80.0	69.0		ug/L		86	61 - 125	0	30
Bis(2-ethylhexyl) phthalate			80.0	77.1		ug/L		96	65 - 144	1	30
Butyl benzyl phthalate			80.0	75.3		ug/L		94	67 - 141	2	30
Caprolactam			40.0	9.10	J	ug/L		23	10 - 120	3	30
Carbazole			80.0	68.5		ug/L		86	68 - 132	0	30
Chrysene			80.0	70.1		ug/L		88	70 - 132	1	30
Dibenz(a,h)anthracene			80.0	70.2		ug/L		88	53 - 150	1	30
Dibenzofuran			80.0	70.7		ug/L		88	64 - 125	0	30
Diethyl phthalate			80.0	73.4		ug/L		92	67 - 131	1	30
Dimethyl phthalate			80.0	73.9		ug/L		92	67 - 129	1	30
Di-n-butyl phthalate			80.0	72.0		ug/L		90	71 - 139	0	30
Di-n-octyl phthalate			80.0	78.6		ug/L		98	51 - 150	1	30
Fluoranthene			80.0	69.4		ug/L		87	69 - 137	0	30
Fluorene			80.0	74.2		ug/L		93	67 - 125	1	30
Hexachlorobenzene			80.0	72.2		ug/L		90	62 - 135	1	30
Hexachlorobutadiene			80.0	67.4		ug/L		84	10 - 147	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1018078/3-A
Matrix: Water
Analysis Batch: 1018087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018078

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorocyclopentadiene			80.0	85.1		ug/L		106	10 - 135	1	30
Hexachloroethane			80.0	68.7		ug/L		86	10 - 138	2	30
Indeno[1,2,3-cd]pyrene			80.0	71.5		ug/L		89	59 - 150	1	30
Isophorone			80.0	75.5		ug/L		94	65 - 128	1	30
Naphthalene			80.0	68.9		ug/L		86	39 - 126	0	30
Nitrobenzene			80.0	76.4		ug/L		96	66 - 127	1	30
N-Nitrosodimethylamine			80.0	32.5		ug/L		41	11 - 120	2	30
N-Nitrosodi-n-propylamine			80.0	79.0		ug/L		99	63 - 133	0	30
N-Nitrosodiphenylamine			80.0	70.9		ug/L		89	66 - 128	2	30
Pentachlorophenol			160	139		ug/L		87	60 - 140	1	30
Phenanthrene			80.0	68.8		ug/L		86	68 - 126	0	30
Phenol			80.0	29.5		ug/L		37	10 - 80	0	30
Pyrene			80.0	73.4		ug/L		92	60 - 137	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*37 - 150*
2-Fluorobiphenyl	*78*		*46 - 139*
2-Fluorophenol (Surr)	*46*		*16 - 80*
Nitrobenzene-d5 (Surr)	*83*		*51 - 145*
Phenol-d5 (Surr)	*33*		*10 - 56*
Terphenyl-d14 (Surr)	*65*		*13 - 159*

Lab Sample ID: MB 460-1018240/1-A
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		01/27/25 11:40	01/28/25 05:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018240/1-A
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		01/27/25 11:40	01/28/25 05:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018240/1-A
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.012	U	0.33	0.012	mg/Kg		01/27/25 11:40	01/28/25 05:49	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		01/27/25 11:40	01/28/25 05:49	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*01/27/25 11:40*	*01/28/25 05:49*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*24 - 137*	*01/27/25 11:40*	*01/28/25 05:49*	*1*
2-Fluorobiphenyl	*91*		*38 - 128*	*01/27/25 11:40*	*01/28/25 05:49*	*1*
2-Fluorophenol (Surr)	*84*		*31 - 133*	*01/27/25 11:40*	*01/28/25 05:49*	*1*
Nitrobenzene-d5 (Surr)	*87*		*31 - 120*	*01/27/25 11:40*	*01/28/25 05:49*	*1*
Phenol-d5 (Surr)	*85*		*35 - 132*	*01/27/25 11:40*	*01/28/25 05:49*	*1*
Terphenyl-d14 (Surr)	*89*		*44 - 147*	*01/27/25 11:40*	*01/28/25 05:49*	*1*

Lab Sample ID: LCS 460-1018240/2-A
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.24		mg/Kg		97	64 - 120
1,2,4-Trichlorobenzene	3.33	3.18		mg/Kg		95	63 - 120
1,2-Dichlorobenzene	3.33	3.06		mg/Kg		92	64 - 120
1,2-Diphenylhydrazine	3.33	3.24		mg/Kg		97	55 - 125
1,3-Dichlorobenzene	3.33	3.04		mg/Kg		91	62 - 120
1,4-Dichlorobenzene	3.33	3.01		mg/Kg		90	60 - 120
2,4,5-Trichlorophenol	3.33	3.40		mg/Kg		102	64 - 120
2,4,6-Trichlorophenol	3.33	3.48		mg/Kg		105	65 - 120
2,4-Dichlorophenol	3.33	3.29		mg/Kg		99	66 - 120
2,4-Dimethylphenol	3.33	3.85		mg/Kg		116	46 - 120
2,4-Dinitrophenol	6.67	6.47		mg/Kg		97	41 - 129
2,4-Dinitrotoluene	3.33	3.51		mg/Kg		105	65 - 124
2,6-Dinitrotoluene	3.33	3.45		mg/Kg		103	67 - 121
2-Chloronaphthalene	3.33	3.18		mg/Kg		95	64 - 120
2-Chlorophenol	3.33	3.11		mg/Kg		93	63 - 120
2-Methylnaphthalene	3.33	2.78		mg/Kg		83	64 - 120
2-Methylphenol	3.33	3.26		mg/Kg		98	63 - 120
2-Nitroaniline	3.33	3.20		mg/Kg		96	48 - 120
2-Nitrophenol	3.33	3.29		mg/Kg		99	64 - 120
3,3'-Dichlorobenzidine	3.33	1.52		mg/Kg		45	10 - 120
3-Nitroaniline	3.33	1.68		mg/Kg		51	18 - 122
4,6-Dinitro-2-methylphenol	6.67	7.84		mg/Kg		118	58 - 136
4-Bromophenyl phenyl ether	3.33	3.36		mg/Kg		101	60 - 120
4-Chloro-3-methylphenol	3.33	3.29		mg/Kg		99	66 - 120
4-Chloroaniline	3.33	0.546		mg/Kg		16	10 - 120
4-Chlorophenyl phenyl ether	3.33	3.25		mg/Kg		97	62 - 120
4-Methylphenol	3.33	3.01		mg/Kg		90	61 - 120
4-Nitroaniline	3.33	2.78		mg/Kg		84	51 - 120
4-Nitrophenol	6.67	6.28		mg/Kg		94	42 - 132

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018240/2-A
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	3.26		mg/Kg		98	65 - 120
Acenaphthylene	3.33	3.38		mg/Kg		101	64 - 120
Acetophenone	3.33	3.10		mg/Kg		93	61 - 120
Anthracene	3.33	3.31		mg/Kg		99	67 - 120
Atrazine	1.33	1.49		mg/Kg		111	32 - 150
Benzaldehyde	1.33	1.29		mg/Kg		97	28 - 150
Benzidine	3.33	1.81		mg/Kg		54	10 - 120
Benzo[a]anthracene	3.33	3.33		mg/Kg		100	66 - 120
Benzo[a]pyrene	3.33	3.62		mg/Kg		108	73 - 123
Benzo[b]fluoranthene	3.33	3.41		mg/Kg		102	70 - 125
Benzo[g,h,i]perylene	3.33	3.68		mg/Kg		110	66 - 120
Benzo[k]fluoranthene	3.33	3.51		mg/Kg		105	67 - 122
bis (2-chloroisopropyl) ether	3.33	2.98		mg/Kg		89	46 - 126
Bis(2-chloroethoxy)methane	3.33	3.17		mg/Kg		95	62 - 120
Bis(2-chloroethyl)ether	3.33	3.08		mg/Kg		93	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.37		mg/Kg		101	64 - 125
Butyl benzyl phthalate	3.33	3.28		mg/Kg		99	62 - 127
Caprolactam	1.33	1.44		mg/Kg		108	36 - 150
Carbazole	3.33	3.35		mg/Kg		100	64 - 120
Chrysene	3.33	3.24		mg/Kg		97	67 - 120
Dibenz(a,h)anthracene	3.33	3.56		mg/Kg		107	66 - 128
Dibenzofuran	3.33	3.20		mg/Kg		96	61 - 120
Diethyl phthalate	3.33	3.21		mg/Kg		96	63 - 120
Dimethyl phthalate	3.33	3.19		mg/Kg		96	65 - 120
Di-n-butyl phthalate	3.33	3.16		mg/Kg		95	66 - 120
Di-n-octyl phthalate	3.33	3.40		mg/Kg		102	61 - 123
Fluoranthene	3.33	3.31		mg/Kg		99	61 - 120
Fluorene	3.33	3.29		mg/Kg		99	64 - 120
Hexachlorobenzene	3.33	3.25		mg/Kg		97	66 - 120
Hexachlorobutadiene	3.33	3.05		mg/Kg		92	62 - 120
Hexachlorocyclopentadiene	3.33	4.93	*+	mg/Kg		148	13 - 120
Hexachloroethane	3.33	3.08		mg/Kg		92	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.63		mg/Kg		109	71 - 137
Isophorone	3.33	3.24		mg/Kg		97	61 - 120
Naphthalene	3.33	3.12		mg/Kg		94	63 - 120
Nitrobenzene	3.33	3.20		mg/Kg		96	63 - 120
N-Nitrosodimethylamine	3.33	3.00		mg/Kg		90	57 - 120
N-Nitrosodi-n-propylamine	3.33	3.23		mg/Kg		97	56 - 120
N-Nitrosodiphenylamine	3.33	3.32		mg/Kg		99	63 - 120
Pentachlorophenol	6.67	7.18		mg/Kg		108	61 - 126
Phenanthrene	3.33	3.28		mg/Kg		99	66 - 120
Phenol	3.33	3.09		mg/Kg		93	63 - 120
Pyrene	3.33	3.32		mg/Kg		100	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*92*		*24 - 137*
2-Fluorobiphenyl	*91*		*38 - 128*
2-Fluorophenol (Surr)	*87*		*31 - 133*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018240/2-A
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018240

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	88		31 - 120
Phenol-d5 (Surr)	89		35 - 132
Terphenyl-d14 (Surr)	93		44 - 147

Lab Sample ID: LCSD 460-1018240/3-A
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018240

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	3.16		mg/Kg		95	64 - 120	3	30
1,2,4-Trichlorobenzene			3.33	3.07		mg/Kg		92	63 - 120	4	30
1,2-Dichlorobenzene			3.33	2.91		mg/Kg		87	64 - 120	5	30
1,2-Diphenylhydrazine			3.33	3.10		mg/Kg		93	55 - 125	4	30
1,3-Dichlorobenzene			3.33	2.90		mg/Kg		87	62 - 120	5	30
1,4-Dichlorobenzene			3.33	2.91		mg/Kg		87	60 - 120	4	30
2,4,5-Trichlorophenol			3.33	3.28		mg/Kg		98	64 - 120	4	30
2,4,6-Trichlorophenol			3.33	3.34		mg/Kg		100	65 - 120	4	30
2,4-Dichlorophenol			3.33	3.17		mg/Kg		95	66 - 120	4	30
2,4-Dimethylphenol			3.33	3.68		mg/Kg		110	46 - 120	5	30
2,4-Dinitrophenol			6.67	6.17		mg/Kg		93	41 - 129	5	30
2,4-Dinitrotoluene			3.33	3.28		mg/Kg		98	65 - 124	7	30
2,6-Dinitrotoluene			3.33	3.29		mg/Kg		99	67 - 121	5	30
2-Chloronaphthalene			3.33	3.06		mg/Kg		92	64 - 120	4	30
2-Chlorophenol			3.33	2.98		mg/Kg		89	63 - 120	4	30
2-Methylnaphthalene			3.33	2.71		mg/Kg		81	64 - 120	3	30
2-Methylphenol			3.33	3.07		mg/Kg		92	63 - 120	6	30
2-Nitroaniline			3.33	3.10		mg/Kg		93	48 - 120	3	30
2-Nitrophenol			3.33	3.18		mg/Kg		95	64 - 120	3	30
3,3'-Dichlorobenzidine			3.33	1.43		mg/Kg		43	10 - 120	6	30
3-Nitroaniline			3.33	1.48		mg/Kg		44	18 - 122	13	30
4,6-Dinitro-2-methylphenol			6.67	7.56		mg/Kg		113	58 - 136	4	30
4-Bromophenyl phenyl ether			3.33	3.21		mg/Kg		96	60 - 120	5	30
4-Chloro-3-methylphenol			3.33	3.14		mg/Kg		94	66 - 120	5	30
4-Chloroaniline			3.33	0.477		mg/Kg		14	10 - 120	13	30
4-Chlorophenyl phenyl ether			3.33	3.11		mg/Kg		93	62 - 120	4	30
4-Methylphenol			3.33	2.87		mg/Kg		86	61 - 120	5	30
4-Nitroaniline			3.33	2.68		mg/Kg		80	51 - 120	4	30
4-Nitrophenol			6.67	5.92		mg/Kg		89	42 - 132	6	30
Acenaphthene			3.33	3.13		mg/Kg		94	65 - 120	4	30
Acenaphthylene			3.33	3.25		mg/Kg		98	64 - 120	4	30
Acetophenone			3.33	2.93		mg/Kg		88	61 - 120	6	30
Anthracene			3.33	3.20		mg/Kg		96	67 - 120	3	30
Atrazine			1.33	1.51		mg/Kg		114	32 - 150	2	30
Benzaldehyde			1.33	1.34		mg/Kg		100	28 - 150	4	30
Benzidine			3.33	1.65		mg/Kg		49	10 - 120	9	30
Benzo[a]anthracene			3.33	3.16		mg/Kg		95	66 - 120	5	30
Benzo[a]pyrene			3.33	3.48		mg/Kg		104	73 - 123	4	30
Benzo[b]fluoranthene			3.33	3.27		mg/Kg		98	70 - 125	4	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1018240/3-A
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018240

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene			3.33	3.55		mg/Kg		107	66 - 120	3	30
Benzo[k]fluoranthene			3.33	3.47		mg/Kg		104	67 - 122	1	30
bis (2-chloroisopropyl) ether			3.33	2.85		mg/Kg		85	46 - 126	5	30
Bis(2-chloroethoxy)methane			3.33	3.01		mg/Kg		90	62 - 120	5	30
Bis(2-chloroethyl)ether			3.33	2.96		mg/Kg		89	60 - 120	4	30
Bis(2-ethylhexyl) phthalate			3.33	3.22		mg/Kg		97	64 - 125	5	30
Butyl benzyl phthalate			3.33	3.09		mg/Kg		93	62 - 127	6	30
Caprolactam			1.33	1.44		mg/Kg		108	36 - 150	0	30
Carbazole			3.33	3.17		mg/Kg		95	64 - 120	5	30
Chrysene			3.33	3.09		mg/Kg		93	67 - 120	5	30
Dibenz(a,h)anthracene			3.33	3.42		mg/Kg		103	66 - 128	4	30
Dibenzofuran			3.33	3.04		mg/Kg		91	61 - 120	5	30
Diethyl phthalate			3.33	3.02		mg/Kg		91	63 - 120	6	30
Dimethyl phthalate			3.33	3.06		mg/Kg		92	65 - 120	4	30
Di-n-butyl phthalate			3.33	3.03		mg/Kg		91	66 - 120	4	30
Di-n-octyl phthalate			3.33	3.24		mg/Kg		97	61 - 123	5	30
Fluoranthene			3.33	3.20		mg/Kg		96	61 - 120	4	30
Fluorene			3.33	3.14		mg/Kg		94	64 - 120	5	30
Hexachlorobenzene			3.33	3.17		mg/Kg		95	66 - 120	2	30
Hexachlorobutadiene			3.33	2.98		mg/Kg		89	62 - 120	3	30
Hexachlorocyclopentadiene			3.33	4.72	*+	mg/Kg		141	13 - 120	4	30
Hexachloroethane			3.33	2.93		mg/Kg		88	61 - 120	5	30
Indeno[1,2,3-cd]pyrene			3.33	3.62		mg/Kg		109	71 - 137	0	30
Isophorone			3.33	3.04		mg/Kg		91	61 - 120	6	30
Naphthalene			3.33	3.00		mg/Kg		90	63 - 120	4	30
Nitrobenzene			3.33	3.12		mg/Kg		93	63 - 120	3	30
N-Nitrosodimethylamine			3.33	2.86		mg/Kg		86	57 - 120	5	30
N-Nitrosodi-n-propylamine			3.33	3.02		mg/Kg		91	56 - 120	7	30
N-Nitrosodiphenylamine			3.33	3.19		mg/Kg		96	63 - 120	4	30
Pentachlorophenol			6.67	6.96		mg/Kg		104	61 - 126	3	30
Phenanthrene			3.33	3.17		mg/Kg		95	66 - 120	4	30
Phenol			3.33	2.93		mg/Kg		88	63 - 120	5	30
Pyrene			3.33	3.20		mg/Kg		96	61 - 121	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*24 - 137*
2-Fluorobiphenyl	*87*		*38 - 128*
2-Fluorophenol (Surr)	*81*		*31 - 133*
Nitrobenzene-d5 (Surr)	*85*		*31 - 120*
Phenol-d5 (Surr)	*85*		*35 - 132*
Terphenyl-d14 (Surr)	*88*		*44 - 147*

Lab Sample ID: 460-319229-4 MS
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1'-Biphenyl	0.012	U	3.37	3.03		mg/Kg	☼	90	64 - 120		

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319229-4 MS
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	0.0086	U	3.37	2.76		mg/Kg	☼	82	63 - 120
1,2-Dichlorobenzene	0.0057	U	3.37	2.65		mg/Kg	☼	79	64 - 120
1,2-Diphenylhydrazine	0.013	U	3.37	3.00		mg/Kg	☼	89	55 - 125
1,3-Dichlorobenzene	0.010	U	3.37	2.64		mg/Kg	☼	78	62 - 120
1,4-Dichlorobenzene	0.013	U	3.37	2.65		mg/Kg	☼	78	60 - 120
2,4,5-Trichlorophenol	0.034	U	3.37	2.84		mg/Kg	☼	84	64 - 120
2,4,6-Trichlorophenol	0.043	U	3.37	2.69		mg/Kg	☼	80	65 - 120
2,4-Dichlorophenol	0.021	U	3.37	2.91		mg/Kg	☼	86	66 - 120
2,4-Dimethylphenol	0.040	U	3.37	3.41		mg/Kg	☼	101	46 - 120
2,4-Dinitrophenol	0.16	U F1	6.75	0.551	F1	mg/Kg	☼	8	41 - 129
2,4-Dinitrotoluene	0.036	U	3.37	3.15		mg/Kg	☼	93	65 - 124
2,6-Dinitrotoluene	0.024	U	3.37	3.16		mg/Kg	☼	94	67 - 121
2-Chloronaphthalene	0.015	U	3.37	2.90		mg/Kg	☼	86	64 - 120
2-Chlorophenol	0.012	U	3.37	2.69		mg/Kg	☼	80	63 - 120
2-Methylnaphthalene	0.0094	U	3.37	2.51		mg/Kg	☼	74	64 - 120
2-Methylphenol	0.013	U	3.37	2.83		mg/Kg	☼	84	63 - 120
2-Nitroaniline	0.026	U	3.37	2.96		mg/Kg	☼	88	48 - 120
2-Nitrophenol	0.034	U	3.37	2.17		mg/Kg	☼	64	64 - 120
3,3'-Dichlorobenzidine	0.051	U	3.37	2.24		mg/Kg	☼	66	10 - 120
3-Nitroaniline	0.079	U	3.37	2.57		mg/Kg	☼	76	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U F1	6.75	1.04	F1	mg/Kg	☼	15	58 - 136
4-Bromophenyl phenyl ether	0.013	U	3.37	3.08		mg/Kg	☼	91	60 - 120
4-Chloro-3-methylphenol	0.019	U	3.37	2.90		mg/Kg	☼	86	66 - 120
4-Chloroaniline	0.059	U F2	3.37	1.83		mg/Kg	☼	54	10 - 120
4-Chlorophenyl phenyl ether	0.012	U	3.37	3.00		mg/Kg	☼	89	62 - 120
4-Methylphenol	0.021	U	3.37	2.64		mg/Kg	☼	78	61 - 120
4-Nitroaniline	0.038	U	3.37	2.79		mg/Kg	☼	83	51 - 120
4-Nitrophenol	0.055	U	6.75	4.45		mg/Kg	☼	66	42 - 132
Acenaphthene	0.0095	U	3.37	2.97		mg/Kg	☼	88	65 - 120
Acenaphthylene	0.0096	U	3.37	3.12		mg/Kg	☼	92	64 - 120
Acetophenone	0.016	U	3.37	2.70		mg/Kg	☼	80	61 - 120
Anthracene	0.010	U	3.37	3.09		mg/Kg	☼	92	67 - 120
Atrazine	0.020	U F1	1.35	2.07	F1	mg/Kg	☼	153	32 - 150
Benzaldehyde	0.055	U	1.35	1.59		mg/Kg	☼	118	28 - 150
Benzidine	0.070	U	3.37	1.95		mg/Kg	☼	58	10 - 120
Benzo[a]anthracene	0.025	U	3.37	3.09		mg/Kg	☼	92	66 - 120
Benzo[a]pyrene	0.0089	U	3.37	3.41		mg/Kg	☼	101	73 - 123
Benzo[b]fluoranthene	0.0087	U	3.37	3.25		mg/Kg	☼	96	70 - 125
Benzo[g,h,i]perylene	0.0099	U	3.37	3.38		mg/Kg	☼	100	66 - 120
Benzo[k]fluoranthene	0.0066	U	3.37	3.35		mg/Kg	☼	99	67 - 122
bis (2-chloroisopropyl) ether	0.020	U	3.37	2.61		mg/Kg	☼	77	46 - 126
Bis(2-chloroethoxy)methane	0.026	U	3.37	2.74		mg/Kg	☼	81	62 - 120
Bis(2-chloroethyl)ether	0.012	U	3.37	2.71		mg/Kg	☼	80	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U	3.37	3.15		mg/Kg	☼	93	64 - 125
Butyl benzyl phthalate	0.016	U	3.37	3.01		mg/Kg	☼	89	62 - 127
Caprolactam	0.052	U	1.35	1.73		mg/Kg	☼	128	36 - 150
Carbazole	0.013	U	3.37	3.05		mg/Kg	☼	91	64 - 120
Chrysene	0.014	U	3.37	3.01		mg/Kg	☼	89	67 - 120
Dibenz(a,h)anthracene	0.014	U	3.37	3.29		mg/Kg	☼	97	66 - 128

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319229-4 MS
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenzofuran	0.011	U	3.37	2.94		mg/Kg	☼	87	61 - 120
Diethyl phthalate	0.011	U	3.37	2.92		mg/Kg	☼	86	63 - 120
Dimethyl phthalate	0.076	U	3.37	2.96		mg/Kg	☼	88	65 - 120
Di-n-butyl phthalate	0.013	U	3.37	2.91		mg/Kg	☼	86	66 - 120
Di-n-octyl phthalate	0.018	U	3.37	3.25		mg/Kg	☼	96	61 - 123
Fluoranthene	0.012	U	3.37	3.03		mg/Kg	☼	90	61 - 120
Fluorene	0.0098	U	3.37	3.06		mg/Kg	☼	91	64 - 120
Hexachlorobenzene	0.016	U	3.37	3.05		mg/Kg	☼	90	66 - 120
Hexachlorobutadiene	0.0071	U	3.37	2.65		mg/Kg	☼	78	62 - 120
Hexachlorocyclopentadiene	0.029	U F1 *+	3.37	4.27	F1	mg/Kg	☼	126	13 - 120
Hexachloroethane	0.011	U	3.37	2.65		mg/Kg	☼	79	61 - 120
Indeno[1,2,3-cd]pyrene	0.013	U	3.37	3.50		mg/Kg	☼	104	71 - 137
Isophorone	0.097	U	3.37	2.80		mg/Kg	☼	83	61 - 120
Naphthalene	0.0058	U	3.37	2.74		mg/Kg	☼	81	63 - 120
Nitrobenzene	0.019	U	3.37	2.78		mg/Kg	☼	82	63 - 120
N-Nitrosodimethylamine	0.031	U	3.37	2.55		mg/Kg	☼	76	57 - 120
N-Nitrosodi-n-propylamine	0.024	U	3.37	2.79		mg/Kg	☼	83	56 - 120
N-Nitrosodiphenylamine	0.028	U	3.37	3.11		mg/Kg	☼	92	63 - 120
Pentachlorophenol	0.069	U F1	6.75	3.30	F1	mg/Kg	☼	49	61 - 126
Phenanthrene	0.014	U	3.37	3.04		mg/Kg	☼	90	66 - 120
Phenol	0.012	U	3.37	2.72		mg/Kg	☼	81	63 - 120
Pyrene	0.0083	U	3.37	3.13		mg/Kg	☼	93	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*24 - 137*
2-Fluorobiphenyl	*90*		*38 - 128*
2-Fluorophenol (Surr)	*82*		*31 - 133*
Nitrobenzene-d5 (Surr)	*82*		*31 - 120*
Phenol-d5 (Surr)	*85*		*35 - 132*
Terphenyl-d14 (Surr)	*95*		*44 - 147*

Lab Sample ID: 460-319229-4 MSD
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U	3.37	3.28		mg/Kg	☼	97	64 - 120	8	30
1,2,4-Trichlorobenzene	0.0086	U	3.37	3.14		mg/Kg	☼	93	63 - 120	13	30
1,2-Dichlorobenzene	0.0057	U	3.37	2.99		mg/Kg	☼	89	64 - 120	12	30
1,2-Diphenylhydrazine	0.013	U	3.37	3.20		mg/Kg	☼	95	55 - 125	7	30
1,3-Dichlorobenzene	0.010	U	3.37	2.95		mg/Kg	☼	88	62 - 120	11	30
1,4-Dichlorobenzene	0.013	U	3.37	2.99		mg/Kg	☼	89	60 - 120	12	30
2,4,5-Trichlorophenol	0.034	U	3.37	3.20		mg/Kg	☼	95	64 - 120	12	30
2,4,6-Trichlorophenol	0.043	U	3.37	3.14		mg/Kg	☼	93	65 - 120	15	30
2,4-Dichlorophenol	0.021	U	3.37	3.19		mg/Kg	☼	95	66 - 120	9	30
2,4-Dimethylphenol	0.040	U	3.37	3.69		mg/Kg	☼	109	46 - 120	8	30
2,4-Dinitrophenol	0.16	U F1	6.74	0.597	F1	mg/Kg	☼	9	41 - 129	8	30
2,4-Dinitrotoluene	0.036	U	3.37	3.42		mg/Kg	☼	101	65 - 124	8	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319229-4 MSD
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,6-Dinitrotoluene	0.024	U	3.37	3.45		mg/Kg	☼	102	67 - 121	9	30
2-Chloronaphthalene	0.015	U	3.37	3.18		mg/Kg	☼	94	64 - 120	9	30
2-Chlorophenol	0.012	U	3.37	3.00		mg/Kg	☼	89	63 - 120	11	30
2-Methylnaphthalene	0.0094	U	3.37	2.78		mg/Kg	☼	83	64 - 120	11	30
2-Methylphenol	0.013	U	3.37	3.15		mg/Kg	☼	93	63 - 120	11	30
2-Nitroaniline	0.026	U	3.37	3.20		mg/Kg	☼	95	48 - 120	8	30
2-Nitrophenol	0.034	U	3.37	2.83		mg/Kg	☼	84	64 - 120	26	30
3,3'-Dichlorobenzidine	0.051	U	3.37	2.74		mg/Kg	☼	81	10 - 120	20	30
3-Nitroaniline	0.079	U	3.37	3.05		mg/Kg	☼	90	18 - 122	17	30
4,6-Dinitro-2-methylphenol	0.14	U F1	6.74	1.12	F1	mg/Kg	☼	17	58 - 136	8	30
4-Bromophenyl phenyl ether	0.013	U	3.37	3.32		mg/Kg	☼	98	60 - 120	8	30
4-Chloro-3-methylphenol	0.019	U	3.37	3.20		mg/Kg	☼	95	66 - 120	10	30
4-Chloroaniline	0.059	U F2	3.37	2.64	F2	mg/Kg	☼	78	10 - 120	36	30
4-Chlorophenyl phenyl ether	0.012	U	3.37	3.27		mg/Kg	☼	97	62 - 120	9	30
4-Methylphenol	0.021	U	3.37	2.92		mg/Kg	☼	87	61 - 120	10	30
4-Nitroaniline	0.038	U	3.37	2.91		mg/Kg	☼	86	51 - 120	4	30
4-Nitrophenol	0.055	U	6.74	5.07		mg/Kg	☼	75	42 - 132	13	30
Acenaphthene	0.0095	U	3.37	3.24		mg/Kg	☼	96	65 - 120	9	30
Acenaphthylene	0.0096	U	3.37	3.42		mg/Kg	☼	102	64 - 120	9	30
Acetophenone	0.016	U	3.37	3.02		mg/Kg	☼	90	61 - 120	11	30
Anthracene	0.010	U	3.37	3.32		mg/Kg	☼	99	67 - 120	7	30
Atrazine	0.020	U F1	1.35	2.16	F1	mg/Kg	☼	160	32 - 150	4	30
Benzaldehyde	0.055	U	1.35	1.75		mg/Kg	☼	130	28 - 150	9	30
Benzidine	0.070	U	3.37	2.07		mg/Kg	☼	61	10 - 120	6	30
Benzo[a]anthracene	0.025	U	3.37	3.27		mg/Kg	☼	97	66 - 120	6	30
Benzo[a]pyrene	0.0089	U	3.37	3.61		mg/Kg	☼	107	73 - 123	6	30
Benzo[b]fluoranthene	0.0087	U	3.37	3.42		mg/Kg	☼	102	70 - 125	5	30
Benzo[g,h,i]perylene	0.0099	U	3.37	3.56		mg/Kg	☼	105	66 - 120	5	30
Benzo[k]fluoranthene	0.0066	U	3.37	3.54		mg/Kg	☼	105	67 - 122	6	30
bis (2-chloroisopropyl) ether	0.020	U	3.37	2.91		mg/Kg	☼	86	46 - 126	11	30
Bis(2-chloroethoxy)methane	0.026	U	3.37	3.09		mg/Kg	☼	92	62 - 120	12	30
Bis(2-chloroethyl)ether	0.012	U	3.37	3.03		mg/Kg	☼	90	60 - 120	11	30
Bis(2-ethylhexyl) phthalate	0.018	U	3.37	3.37		mg/Kg	☼	100	64 - 125	7	30
Butyl benzyl phthalate	0.016	U	3.37	3.20		mg/Kg	☼	95	62 - 127	6	30
Caprolactam	0.052	U	1.35	1.79		mg/Kg	☼	133	36 - 150	3	30
Carbazole	0.013	U	3.37	3.25		mg/Kg	☼	96	64 - 120	6	30
Chrysene	0.014	U	3.37	3.17		mg/Kg	☼	94	67 - 120	5	30
Dibenz(a,h)anthracene	0.014	U	3.37	3.44		mg/Kg	☼	102	66 - 128	5	30
Dibenzofuran	0.011	U	3.37	3.22		mg/Kg	☼	95	61 - 120	9	30
Diethyl phthalate	0.011	U	3.37	3.15		mg/Kg	☼	94	63 - 120	8	30
Dimethyl phthalate	0.076	U	3.37	3.18		mg/Kg	☼	94	65 - 120	7	30
Di-n-butyl phthalate	0.013	U	3.37	3.12		mg/Kg	☼	93	66 - 120	7	30
Di-n-octyl phthalate	0.018	U	3.37	3.42		mg/Kg	☼	101	61 - 123	5	30
Fluoranthene	0.012	U	3.37	3.26		mg/Kg	☼	97	61 - 120	7	30
Fluorene	0.0098	U	3.37	3.30		mg/Kg	☼	98	64 - 120	8	30
Hexachlorobenzene	0.016	U	3.37	3.31		mg/Kg	☼	98	66 - 120	8	30
Hexachlorobutadiene	0.0071	U	3.37	2.97		mg/Kg	☼	88	62 - 120	12	30
Hexachlorocyclopentadiene	0.029	U F1 *+	3.37	4.89	F1	mg/Kg	☼	145	13 - 120	14	30
Hexachloroethane	0.011	U	3.37	2.99		mg/Kg	☼	89	61 - 120	12	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319229-4 MSD
Matrix: Solid
Analysis Batch: 1018311

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA
Prep Batch: 1018240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	0.013	U	3.37	3.57		mg/Kg	☼	106	71 - 137	2	30
Isophorone	0.097	U	3.37	3.12		mg/Kg	☼	92	61 - 120	11	30
Naphthalene	0.0058	U	3.37	3.06		mg/Kg	☼	91	63 - 120	11	30
Nitrobenzene	0.019	U	3.37	3.09		mg/Kg	☼	92	63 - 120	10	30
N-Nitrosodimethylamine	0.031	U	3.37	2.93		mg/Kg	☼	87	57 - 120	14	30
N-Nitrosodi-n-propylamine	0.024	U	3.37	3.08		mg/Kg	☼	91	56 - 120	10	30
N-Nitrosodiphenylamine	0.028	U	3.37	3.34		mg/Kg	☼	99	63 - 120	7	30
Pentachlorophenol	0.069	U F1	6.74	3.53	F1	mg/Kg	☼	52	61 - 126	7	30
Phenanthrene	0.014	U	3.37	3.29		mg/Kg	☼	98	66 - 120	8	30
Phenol	0.012	U	3.37	3.01		mg/Kg	☼	89	63 - 120	10	30
Pyrene	0.0083	U	3.37	3.31		mg/Kg	☼	98	61 - 121	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*81*		*24 - 137*
2-Fluorobiphenyl	*91*		*38 - 128*
2-Fluorophenol (Surr)	*83*		*31 - 133*
Nitrobenzene-d5 (Surr)	*84*		*31 - 120*
Phenol-d5 (Surr)	*85*		*35 - 132*
Terphenyl-d14 (Surr)	*91*		*44 - 147*

Lab Sample ID: MB 460-1023975/1-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1023975/1-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Phenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:39	03/04/25 14:49	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		03/04/25 08:39	03/04/25 14:49	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg			N/A	03/04/25 08:39	03/04/25 14:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		24 - 137	03/04/25 08:39	03/04/25 14:49	1
2-Fluorobiphenyl	86		38 - 128	03/04/25 08:39	03/04/25 14:49	1
2-Fluorophenol (Surr)	98		31 - 133	03/04/25 08:39	03/04/25 14:49	1
Nitrobenzene-d5 (Surr)	92		31 - 120	03/04/25 08:39	03/04/25 14:49	1
Phenol-d5 (Surr)	79		35 - 132	03/04/25 08:39	03/04/25 14:49	1
Terphenyl-d14 (Surr)	86		44 - 147	03/04/25 08:39	03/04/25 14:49	1

Lab Sample ID: LCS 460-1023975/2-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.38		mg/Kg		101	64 - 120
1,2,4-Trichlorobenzene	3.33	3.31		mg/Kg		99	63 - 120
1,2-Dichlorobenzene	3.33	3.31		mg/Kg		99	64 - 120
1,2-Diphenylhydrazine	3.33	3.33		mg/Kg		100	55 - 125
1,3-Dichlorobenzene	3.33	3.08		mg/Kg		92	62 - 120
1,4-Dichlorobenzene	3.33	3.25		mg/Kg		98	60 - 120
2,4,5-Trichlorophenol	3.33	3.50		mg/Kg		105	64 - 120
2,4,6-Trichlorophenol	3.33	3.61		mg/Kg		108	65 - 120
2,4-Dichlorophenol	3.33	3.23		mg/Kg		97	66 - 120
2,4-Dimethylphenol	3.33	3.94		mg/Kg		118	46 - 120
2,4-Dinitrophenol	6.67	6.73		mg/Kg		101	41 - 129
2,4-Dinitrotoluene	3.33	3.47		mg/Kg		104	65 - 124
2,6-Dinitrotoluene	3.33	3.44		mg/Kg		103	67 - 121
2-Chloronaphthalene	3.33	3.30		mg/Kg		99	64 - 120
2-Chlorophenol	3.33	3.34		mg/Kg		100	63 - 120
2-Methylnaphthalene	3.33	2.89		mg/Kg		87	64 - 120
2-Methylphenol	3.33	3.50		mg/Kg		105	63 - 120
2-Nitroaniline	3.33	3.19		mg/Kg		96	48 - 120
2-Nitrophenol	3.33	3.27		mg/Kg		98	64 - 120
3,3'-Dichlorobenzidine	3.33	2.04		mg/Kg		61	10 - 120
3-Nitroaniline	3.33	2.34		mg/Kg		70	18 - 122
4,6-Dinitro-2-methylphenol	6.67	7.63		mg/Kg		114	58 - 136
4-Bromophenyl phenyl ether	3.33	3.51		mg/Kg		105	60 - 120
4-Chloro-3-methylphenol	3.33	3.32		mg/Kg		100	66 - 120
4-Chloroaniline	3.33	2.21		mg/Kg		66	10 - 120
4-Chlorophenyl phenyl ether	3.33	3.32		mg/Kg		100	62 - 120
4-Methylphenol	3.33	3.26		mg/Kg		98	61 - 120
4-Nitroaniline	3.33	3.35		mg/Kg		101	51 - 120
4-Nitrophenol	6.67	5.97		mg/Kg		89	42 - 132
Acenaphthene	3.33	3.32		mg/Kg		99	65 - 120
Acenaphthylene	3.33	3.53		mg/Kg		106	64 - 120
Acetophenone	3.33	3.19		mg/Kg		96	61 - 120
Anthracene	3.33	3.48		mg/Kg		104	67 - 120
Atrazine	1.33	1.72		mg/Kg		129	32 - 150
Benzaldehyde	1.33	1.58		mg/Kg		119	28 - 150
Benzidine	3.33	3.85		mg/Kg		116	10 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1023975/2-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]anthracene	3.33	3.38		mg/Kg		101	66 - 120
Benzo[a]pyrene	3.33	3.86		mg/Kg		116	73 - 123
Benzo[b]fluoranthene	3.33	3.59		mg/Kg		108	70 - 125
Benzo[g,h,i]perylene	3.33	3.93		mg/Kg		118	66 - 120
Benzo[k]fluoranthene	3.33	3.55		mg/Kg		107	67 - 122
bis (2-chloroisopropyl) ether	3.33	3.12		mg/Kg		94	46 - 126
Bis(2-chloroethoxy)methane	3.33	3.22		mg/Kg		97	62 - 120
Bis(2-chloroethyl)ether	3.33	3.20		mg/Kg		96	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.41		mg/Kg		102	64 - 125
Butyl benzyl phthalate	3.33	3.34		mg/Kg		100	62 - 127
Caprolactam	1.33	1.51		mg/Kg		113	36 - 150
Carbazole	3.33	3.45		mg/Kg		104	64 - 120
Chrysene	3.33	3.33		mg/Kg		100	67 - 120
Dibenz(a,h)anthracene	3.33	3.71		mg/Kg		111	66 - 128
Dibenzofuran	3.33	3.24		mg/Kg		97	61 - 120
Diethyl phthalate	3.33	3.38		mg/Kg		101	63 - 120
Dimethyl phthalate	3.33	3.35		mg/Kg		101	65 - 120
Di-n-butyl phthalate	3.33	3.27		mg/Kg		98	66 - 120
Di-n-octyl phthalate	3.33	3.31		mg/Kg		99	61 - 123
Fluoranthene	3.33	3.44		mg/Kg		103	61 - 120
Fluorene	3.33	3.37		mg/Kg		101	64 - 120
Hexachlorobenzene	3.33	3.61		mg/Kg		108	66 - 120
Hexachlorobutadiene	3.33	3.37		mg/Kg		101	62 - 120
Hexachlorocyclopentadiene	3.33	5.27	*+	mg/Kg		158	13 - 120
Hexachloroethane	3.33	3.39		mg/Kg		102	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.64		mg/Kg		109	71 - 137
Isophorone	3.33	3.28		mg/Kg		98	61 - 120
Naphthalene	3.33	3.28		mg/Kg		98	63 - 120
Nitrobenzene	3.33	3.14		mg/Kg		94	63 - 120
N-Nitrosodimethylamine	3.33	3.18		mg/Kg		95	57 - 120
N-Nitrosodi-n-propylamine	3.33	3.30		mg/Kg		99	56 - 120
N-Nitrosodiphenylamine	3.33	3.41		mg/Kg		102	63 - 120
Pentachlorophenol	6.67	7.30		mg/Kg		109	61 - 126
Phenanthrene	3.33	3.36		mg/Kg		101	66 - 120
Phenol	3.33	3.16		mg/Kg		95	63 - 120
Pyrene	3.33	3.40		mg/Kg		102	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*24 - 137*
2-Fluorobiphenyl	*95*		*38 - 128*
2-Fluorophenol (Surr)	*99*		*31 - 133*
Nitrobenzene-d5 (Surr)	*95*		*31 - 120*
Phenol-d5 (Surr)	*95*		*35 - 132*
Terphenyl-d14 (Surr)	*98*		*44 - 147*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1023975/3-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023975

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	3.37		mg/Kg		101	64 - 120	0	30
1,2,4-Trichlorobenzene			3.33	3.34		mg/Kg		100	63 - 120	1	30
1,2-Dichlorobenzene			3.33	3.28		mg/Kg		98	64 - 120	1	30
1,2-Diphenylhydrazine			3.33	3.33		mg/Kg		100	55 - 125	0	30
1,3-Dichlorobenzene			3.33	3.21		mg/Kg		96	62 - 120	4	30
1,4-Dichlorobenzene			3.33	3.23		mg/Kg		97	60 - 120	1	30
2,4,5-Trichlorophenol			3.33	3.54		mg/Kg		106	64 - 120	1	30
2,4,6-Trichlorophenol			3.33	3.46		mg/Kg		104	65 - 120	4	30
2,4-Dichlorophenol			3.33	3.28		mg/Kg		98	66 - 120	1	30
2,4-Dimethylphenol			3.33	3.85		mg/Kg		115	46 - 120	2	30
2,4-Dinitrophenol			6.67	6.88		mg/Kg		103	41 - 129	2	30
2,4-Dinitrotoluene			3.33	3.50		mg/Kg		105	65 - 124	1	30
2,6-Dinitrotoluene			3.33	3.42		mg/Kg		103	67 - 121	0	30
2-Chloronaphthalene			3.33	3.31		mg/Kg		99	64 - 120	0	30
2-Chlorophenol			3.33	3.34		mg/Kg		100	63 - 120	0	30
2-Methylnaphthalene			3.33	2.92		mg/Kg		88	64 - 120	1	30
2-Methylphenol			3.33	3.55		mg/Kg		107	63 - 120	2	30
2-Nitroaniline			3.33	3.21		mg/Kg		96	48 - 120	1	30
2-Nitrophenol			3.33	3.36		mg/Kg		101	64 - 120	3	30
3,3'-Dichlorobenzidine			3.33	1.85		mg/Kg		56	10 - 120	10	30
3-Nitroaniline			3.33	2.20		mg/Kg		66	18 - 122	6	30
4,6-Dinitro-2-methylphenol			6.67	7.80		mg/Kg		117	58 - 136	2	30
4-Bromophenyl phenyl ether			3.33	3.56		mg/Kg		107	60 - 120	1	30
4-Chloro-3-methylphenol			3.33	3.42		mg/Kg		103	66 - 120	3	30
4-Chloroaniline			3.33	1.90		mg/Kg		57	10 - 120	15	30
4-Chlorophenyl phenyl ether			3.33	3.38		mg/Kg		101	62 - 120	2	30
4-Methylphenol			3.33	3.33		mg/Kg		100	61 - 120	2	30
4-Nitroaniline			3.33	3.30		mg/Kg		99	51 - 120	1	30
4-Nitrophenol			6.67	5.88		mg/Kg		88	42 - 132	1	30
Acenaphthene			3.33	3.34		mg/Kg		100	65 - 120	1	30
Acenaphthylene			3.33	3.52		mg/Kg		106	64 - 120	0	30
Acetophenone			3.33	3.22		mg/Kg		97	61 - 120	1	30
Anthracene			3.33	3.48		mg/Kg		104	67 - 120	0	30
Atrazine			1.33	2.07	*+	mg/Kg		155	32 - 150	19	30
Benzaldehyde			1.33	1.75		mg/Kg		131	28 - 150	10	30
Benzidine			3.33	3.61		mg/Kg		108	10 - 120	7	30
Benzo[a]anthracene			3.33	3.37		mg/Kg		101	66 - 120	0	30
Benzo[a]pyrene			3.33	3.67		mg/Kg		110	73 - 123	5	30
Benzo[b]fluoranthene			3.33	3.35		mg/Kg		101	70 - 125	7	30
Benzo[g,h,i]perylene			3.33	3.90		mg/Kg		117	66 - 120	1	30
Benzo[k]fluoranthene			3.33	3.66		mg/Kg		110	67 - 122	3	30
bis (2-chloroisopropyl) ether			3.33	3.13		mg/Kg		94	46 - 126	0	30
Bis(2-chloroethoxy)methane			3.33	3.24		mg/Kg		97	62 - 120	0	30
Bis(2-chloroethyl)ether			3.33	3.15		mg/Kg		95	60 - 120	2	30
Bis(2-ethylhexyl) phthalate			3.33	3.42		mg/Kg		102	64 - 125	0	30
Butyl benzyl phthalate			3.33	3.32		mg/Kg		99	62 - 127	1	30
Caprolactam			1.33	1.82		mg/Kg		136	36 - 150	19	30
Carbazole			3.33	3.56		mg/Kg		107	64 - 120	3	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1023975/3-A
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023975

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chrysene			3.33	3.32		mg/Kg		100	67 - 120	0	30
Dibenz(a,h)anthracene			3.33	3.70		mg/Kg		111	66 - 128	0	30
Dibenzofuran			3.33	3.28		mg/Kg		98	61 - 120	1	30
Diethyl phthalate			3.33	3.38		mg/Kg		101	63 - 120	0	30
Dimethyl phthalate			3.33	3.40		mg/Kg		102	65 - 120	1	30
Di-n-butyl phthalate			3.33	3.30		mg/Kg		99	66 - 120	1	30
Di-n-octyl phthalate			3.33	3.28		mg/Kg		98	61 - 123	1	30
Fluoranthene			3.33	3.52		mg/Kg		106	61 - 120	2	30
Fluorene			3.33	3.37		mg/Kg		101	64 - 120	0	30
Hexachlorobenzene			3.33	3.64		mg/Kg		109	66 - 120	1	30
Hexachlorobutadiene			3.33	3.43		mg/Kg		103	62 - 120	2	30
Hexachlorocyclopentadiene			3.33	5.31	*+	mg/Kg		159	13 - 120	1	30
Hexachloroethane			3.33	3.41		mg/Kg		102	61 - 120	1	30
Indeno[1,2,3-cd]pyrene			3.33	3.67		mg/Kg		110	71 - 137	1	30
Isophorone			3.33	3.30		mg/Kg		99	61 - 120	1	30
Naphthalene			3.33	3.33		mg/Kg		100	63 - 120	1	30
Nitrobenzene			3.33	3.17		mg/Kg		95	63 - 120	1	30
N-Nitrosodimethylamine			3.33	3.10		mg/Kg		93	57 - 120	2	30
N-Nitrosodi-n-propylamine			3.33	3.26		mg/Kg		98	56 - 120	1	30
N-Nitrosodiphenylamine			3.33	3.46		mg/Kg		104	63 - 120	2	30
Pentachlorophenol			6.67	7.38		mg/Kg		111	61 - 126	1	30
Phenanthrene			3.33	3.41		mg/Kg		102	66 - 120	1	30
Phenol			3.33	3.15		mg/Kg		95	63 - 120	0	30
Pyrene			3.33	3.44		mg/Kg		103	61 - 121	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*24 - 137*
2-Fluorobiphenyl	*93*		*38 - 128*
2-Fluorophenol (Surr)	*102*		*31 - 133*
Nitrobenzene-d5 (Surr)	*92*		*31 - 120*
Phenol-d5 (Surr)	*93*		*35 - 132*
Terphenyl-d14 (Surr)	*97*		*44 - 147*

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.012	U H	3.35	2.54	H	mg/Kg	☼	76	64 - 120
1,2,4-Trichlorobenzene	0.0085	U H	3.35	2.59	H	mg/Kg	☼	77	63 - 120
1,2-Dichlorobenzene	0.0057	U H	3.35	2.40	H	mg/Kg	☼	72	64 - 120
1,2-Diphenylhydrazine	0.013	U H	3.35	2.45	H	mg/Kg	☼	73	55 - 125
1,3-Dichlorobenzene	0.010	U H	3.35	2.40	H	mg/Kg	☼	72	62 - 120
1,4-Dichlorobenzene	0.013	U H	3.35	2.39	H	mg/Kg	☼	71	60 - 120
2,4,5-Trichlorophenol	0.034	U H	3.35	2.48	H	mg/Kg	☼	74	64 - 120
2,4,6-Trichlorophenol	0.043	U H	3.35	2.75	H	mg/Kg	☼	82	65 - 120
2,4-Dichlorophenol	0.021	U H	3.35	2.68	H	mg/Kg	☼	80	66 - 120
2,4-Dimethylphenol	0.040	U H	3.35	2.93	H	mg/Kg	☼	87	46 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrophenol	0.16	U H	6.69	4.14	H	mg/Kg	☼	62	41 - 129
2,4-Dinitrotoluene	0.036	U H	3.35	2.62	H	mg/Kg	☼	78	65 - 124
2,6-Dinitrotoluene	0.024	U H	3.35	2.57	H	mg/Kg	☼	77	67 - 121
2-Chloronaphthalene	0.015	U H	3.35	2.52	H	mg/Kg	☼	75	64 - 120
2-Chlorophenol	0.012	U H	3.35	2.31	H	mg/Kg	☼	69	63 - 120
2-Methylnaphthalene	0.0093	U H	3.35	2.23	H	mg/Kg	☼	67	64 - 120
2-Methylphenol	0.012	U H	3.35	2.61	H	mg/Kg	☼	78	63 - 120
2-Nitroaniline	0.025	U H	3.35	2.29	H	mg/Kg	☼	68	48 - 120
2-Nitrophenol	0.033	U H	3.35	2.44	H	mg/Kg	☼	73	64 - 120
3,3'-Dichlorobenzidine	0.050	U H F1	3.35	0.0580	J H F1	mg/Kg	☼	2	10 - 120
3-Nitroaniline	0.079	U H F2	3.35	1.41	H	mg/Kg	☼	42	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U H	6.69	4.87	H	mg/Kg	☼	73	58 - 136
4-Bromophenyl phenyl ether	0.013	U H	3.35	2.66	H	mg/Kg	☼	79	60 - 120
4-Chloro-3-methylphenol	0.019	U H	3.35	2.60	H	mg/Kg	☼	78	66 - 120
4-Chloroaniline	0.059	U H	3.35	0.505	H	mg/Kg	☼	15	10 - 120
4-Chlorophenyl phenyl ether	0.012	U H	3.35	2.55	H	mg/Kg	☼	76	62 - 120
4-Methylphenol	0.021	U H	3.35	2.48	H	mg/Kg	☼	74	61 - 120
4-Nitroaniline	0.038	U H F1 F2	3.35	1.08	H F1	mg/Kg	☼	32	51 - 120
4-Nitrophenol	0.054	U H	6.69	4.49	H	mg/Kg	☼	67	42 - 132
Acenaphthene	0.0095	U H	3.35	2.54	H	mg/Kg	☼	76	65 - 120
Acenaphthylene	0.0095	U H	3.35	2.68	H	mg/Kg	☼	80	64 - 120
Acetophenone	0.016	U H	3.35	2.36	H	mg/Kg	☼	71	61 - 120
Anthracene	0.010	U H	3.35	2.56	H	mg/Kg	☼	77	67 - 120
Atrazine	0.020	U H *+	1.34	1.38	H	mg/Kg	☼	103	32 - 150
Benzaldehyde	0.055	U H	1.34	1.29	H	mg/Kg	☼	96	28 - 150
Benzidine	0.070	U H F1	3.35	0.070	U H F1	mg/Kg	☼	0	10 - 120
Benzo[a]anthracene	0.025	U H	3.35	2.51	H	mg/Kg	☼	75	66 - 120
Benzo[a]pyrene	0.0089	U H	3.35	2.92	H	mg/Kg	☼	87	73 - 123
Benzo[b]fluoranthene	0.0086	U H	3.35	2.77	H	mg/Kg	☼	83	70 - 125
Benzo[g,h,i]perylene	0.0098	U H	3.35	3.01	H	mg/Kg	☼	90	66 - 120
Benzo[k]fluoranthene	0.0065	U H	3.35	2.65	H	mg/Kg	☼	79	67 - 122
bis (2-chloroisopropyl) ether	0.020	U H	3.35	2.28	H	mg/Kg	☼	68	46 - 126
Bis(2-chloroethoxy)methane	0.026	U H	3.35	2.51	H	mg/Kg	☼	75	62 - 120
Bis(2-chloroethyl)ether	0.012	U H	3.35	2.41	H	mg/Kg	☼	72	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U H	3.35	2.62	H	mg/Kg	☼	78	64 - 125
Butyl benzyl phthalate	0.016	U H	3.35	2.56	H	mg/Kg	☼	76	62 - 127
Caprolactam	0.052	U H	1.34	1.30	H	mg/Kg	☼	97	36 - 150
Carbazole	0.013	U H	3.35	2.53	H	mg/Kg	☼	76	64 - 120
Chrysene	0.014	U H	3.35	2.51	H	mg/Kg	☼	75	67 - 120
Dibenz(a,h)anthracene	0.014	U H	3.35	2.89	H	mg/Kg	☼	86	66 - 128
Dibenzofuran	0.011	U H	3.35	2.55	H	mg/Kg	☼	76	61 - 120
Diethyl phthalate	0.011	U H	3.35	2.56	H	mg/Kg	☼	76	63 - 120
Dimethyl phthalate	0.076	U H	3.35	2.62	H	mg/Kg	☼	78	65 - 120
Di-n-butyl phthalate	0.013	U H	3.35	2.48	H	mg/Kg	☼	74	66 - 120
Di-n-octyl phthalate	0.018	U H	3.35	2.60	H	mg/Kg	☼	78	61 - 123
Fluoranthene	0.012	J H	3.35	2.53	H	mg/Kg	☼	76	61 - 120
Fluorene	0.0097	U H	3.35	2.54	H	mg/Kg	☼	76	64 - 120
Hexachlorobenzene	0.016	U H	3.35	2.70	H	mg/Kg	☼	81	66 - 120
Hexachlorobutadiene	0.0071	U H	3.35	2.56	H	mg/Kg	☼	77	62 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	0.029	U H *+	3.35	2.35	H	mg/Kg	☼	70	13 - 120
Hexachloroethane	0.011	U H	3.35	2.35	H	mg/Kg	☼	70	61 - 120
Indeno[1,2,3-cd]pyrene	0.013	U H	3.35	2.92	H	mg/Kg	☼	87	71 - 137
Isophorone	0.096	U H	3.35	2.51	H	mg/Kg	☼	75	61 - 120
Naphthalene	0.0057	U H	3.35	2.50	H	mg/Kg	☼	75	63 - 120
Nitrobenzene	0.018	U H	3.35	2.33	H	mg/Kg	☼	70	63 - 120
N-Nitrosodimethylamine	0.031	U H	3.35	2.09	H	mg/Kg	☼	63	57 - 120
N-Nitrosodi-n-propylamine	0.024	U H	3.35	2.39	H	mg/Kg	☼	71	56 - 120
N-Nitrosodiphenylamine	0.027	U H	3.35	2.54	H	mg/Kg	☼	76	63 - 120
Pentachlorophenol	0.068	U H	6.69	5.71	H	mg/Kg	☼	85	61 - 126
Phenanthrene	0.014	U H	3.35	2.53	H	mg/Kg	☼	76	66 - 120
Phenol	0.012	U H	3.35	2.45	H	mg/Kg	☼	73	63 - 120
Pyrene	0.0083	U H	3.35	2.60	H	mg/Kg	☼	78	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*24 - 137*
2-Fluorobiphenyl	*69*		*38 - 128*
2-Fluorophenol (Surr)	*68*		*31 - 133*
Nitrobenzene-d5 (Surr)	*69*		*31 - 120*
Phenol-d5 (Surr)	*66*		*35 - 132*
Terphenyl-d14 (Surr)	*71*		*44 - 147*

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U H	3.36	2.51	H	mg/Kg	☼	75	64 - 120	1	30
1,2,4-Trichlorobenzene	0.0085	U H	3.36	2.50	H	mg/Kg	☼	74	63 - 120	4	30
1,2-Dichlorobenzene	0.0057	U H	3.36	2.32	H	mg/Kg	☼	69	64 - 120	3	30
1,2-Diphenylhydrazine	0.013	U H	3.36	2.46	H	mg/Kg	☼	73	55 - 125	0	30
1,3-Dichlorobenzene	0.010	U H	3.36	2.31	H	mg/Kg	☼	69	62 - 120	4	30
1,4-Dichlorobenzene	0.013	U H	3.36	2.28	H	mg/Kg	☼	68	60 - 120	4	30
2,4,5-Trichlorophenol	0.034	U H	3.36	2.46	H	mg/Kg	☼	73	64 - 120	1	30
2,4,6-Trichlorophenol	0.043	U H	3.36	2.66	H	mg/Kg	☼	79	65 - 120	3	30
2,4-Dichlorophenol	0.021	U H	3.36	2.59	H	mg/Kg	☼	77	66 - 120	3	30
2,4-Dimethylphenol	0.040	U H	3.36	2.92	H	mg/Kg	☼	87	46 - 120	0	30
2,4-Dinitrophenol	0.16	U H	6.71	4.01	H	mg/Kg	☼	60	41 - 129	3	30
2,4-Dinitrotoluene	0.036	U H	3.36	2.57	H	mg/Kg	☼	77	65 - 124	2	30
2,6-Dinitrotoluene	0.024	U H	3.36	2.49	H	mg/Kg	☼	74	67 - 121	3	30
2-Chloronaphthalene	0.015	U H	3.36	2.51	H	mg/Kg	☼	75	64 - 120	0	30
2-Chlorophenol	0.012	U H	3.36	2.38	H	mg/Kg	☼	71	63 - 120	3	30
2-Methylnaphthalene	0.0093	U H	3.36	2.20	H	mg/Kg	☼	66	64 - 120	1	30
2-Methylphenol	0.012	U H	3.36	2.65	H	mg/Kg	☼	79	63 - 120	1	30
2-Nitroaniline	0.025	U H	3.36	2.15	H	mg/Kg	☼	64	48 - 120	6	30
2-Nitrophenol	0.033	U H	3.36	2.52	H	mg/Kg	☼	75	64 - 120	3	30
3,3'-Dichlorobenzidine	0.050	U H F1	3.36	0.050	U H F1	mg/Kg	☼	0	10 - 120	NC	30
3-Nitroaniline	0.079	U H F2	3.36	0.801	H F2	mg/Kg	☼	24	18 - 122	55	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	0.14	U H	6.71	4.44	H	mg/Kg	☼	66	58 - 136	9	30
4-Bromophenyl phenyl ether	0.013	U H	3.36	2.66	H	mg/Kg	☼	79	60 - 120	0	30
4-Chloro-3-methylphenol	0.019	U H	3.36	2.54	H	mg/Kg	☼	76	66 - 120	2	30
4-Chloroaniline	0.059	U H	3.36	0.643	H	mg/Kg	☼	19	10 - 120	24	30
4-Chlorophenyl phenyl ether	0.012	U H	3.36	2.47	H	mg/Kg	☼	74	62 - 120	3	30
4-Methylphenol	0.021	U H	3.36	2.42	H	mg/Kg	☼	72	61 - 120	2	30
4-Nitroaniline	0.038	U H F1 F2	3.36	0.329	J H F1 F2	mg/Kg	☼	10	51 - 120	106	30
4-Nitrophenol	0.054	U H	6.71	4.90	H	mg/Kg	☼	73	42 - 132	9	30
Acenaphthene	0.0095	U H	3.36	2.48	H	mg/Kg	☼	74	65 - 120	2	30
Acenaphthylene	0.0095	U H	3.36	2.58	H	mg/Kg	☼	77	64 - 120	4	30
Acetophenone	0.016	U H	3.36	2.39	H	mg/Kg	☼	71	61 - 120	1	30
Anthracene	0.010	U H	3.36	2.52	H	mg/Kg	☼	75	67 - 120	2	30
Atrazine	0.020	U H *+	1.34	1.42	H	mg/Kg	☼	106	32 - 150	3	30
Benzaldehyde	0.055	U H	1.34	1.42	H	mg/Kg	☼	106	28 - 150	10	30
Benzidine	0.070	U H F1	3.36	0.070	U H F1	mg/Kg	☼	0	10 - 120	NC	30
Benzo[a]anthracene	0.025	U H	3.36	2.45	H	mg/Kg	☼	73	66 - 120	3	30
Benzo[a]pyrene	0.0089	U H	3.36	2.81	H	mg/Kg	☼	84	73 - 123	4	30
Benzo[b]fluoranthene	0.0086	U H	3.36	2.62	H	mg/Kg	☼	78	70 - 125	5	30
Benzo[g,h,i]perylene	0.0098	U H	3.36	2.85	H	mg/Kg	☼	85	66 - 120	6	30
Benzo[k]fluoranthene	0.0065	U H	3.36	2.64	H	mg/Kg	☼	79	67 - 122	0	30
bis (2-chloroisopropyl) ether	0.020	U H	3.36	2.27	H	mg/Kg	☼	68	46 - 126	0	30
Bis(2-chloroethoxy)methane	0.026	U H	3.36	2.47	H	mg/Kg	☼	74	62 - 120	1	30
Bis(2-chloroethyl)ether	0.012	U H	3.36	2.26	H	mg/Kg	☼	67	60 - 120	6	30
Bis(2-ethylhexyl) phthalate	0.018	U H	3.36	2.58	H	mg/Kg	☼	77	64 - 125	2	30
Butyl benzyl phthalate	0.016	U H	3.36	2.51	H	mg/Kg	☼	75	62 - 127	2	30
Caprolactam	0.052	U H	1.34	1.32	H	mg/Kg	☼	98	36 - 150	1	30
Carbazole	0.013	U H	3.36	2.46	H	mg/Kg	☼	73	64 - 120	3	30
Chrysene	0.014	U H	3.36	2.50	H	mg/Kg	☼	75	67 - 120	0	30
Dibenz(a,h)anthracene	0.014	U H	3.36	2.79	H	mg/Kg	☼	83	66 - 128	4	30
Dibenzofuran	0.011	U H	3.36	2.52	H	mg/Kg	☼	75	61 - 120	1	30
Diethyl phthalate	0.011	U H	3.36	2.52	H	mg/Kg	☼	75	63 - 120	2	30
Dimethyl phthalate	0.076	U H	3.36	2.58	H	mg/Kg	☼	77	65 - 120	1	30
Di-n-butyl phthalate	0.013	U H	3.36	2.46	H	mg/Kg	☼	73	66 - 120	1	30
Di-n-octyl phthalate	0.018	U H	3.36	2.50	H	mg/Kg	☼	74	61 - 123	4	30
Fluoranthene	0.012	J H	3.36	2.50	H	mg/Kg	☼	74	61 - 120	1	30
Fluorene	0.0097	U H	3.36	2.49	H	mg/Kg	☼	74	64 - 120	2	30
Hexachlorobenzene	0.016	U H	3.36	2.69	H	mg/Kg	☼	80	66 - 120	0	30
Hexachlorobutadiene	0.0071	U H	3.36	2.48	H	mg/Kg	☼	74	62 - 120	3	30
Hexachlorocyclopentadiene	0.029	U H *+	3.36	2.42	H	mg/Kg	☼	72	13 - 120	3	30
Hexachloroethane	0.011	U H	3.36	2.33	H	mg/Kg	☼	69	61 - 120	1	30
Indeno[1,2,3-cd]pyrene	0.013	U H	3.36	2.70	H	mg/Kg	☼	80	71 - 137	8	30
Isophorone	0.096	U H	3.36	2.46	H	mg/Kg	☼	73	61 - 120	2	30
Naphthalene	0.0057	U H	3.36	2.43	H	mg/Kg	☼	73	63 - 120	3	30
Nitrobenzene	0.018	U H	3.36	2.32	H	mg/Kg	☼	69	63 - 120	1	30
N-Nitrosodimethylamine	0.031	U H	3.36	2.30	H	mg/Kg	☼	69	57 - 120	9	30
N-Nitrosodi-n-propylamine	0.024	U H	3.36	2.43	H	mg/Kg	☼	72	56 - 120	2	30
N-Nitrosodiphenylamine	0.027	U H	3.36	2.52	H	mg/Kg	☼	75	63 - 120	1	30
Pentachlorophenol	0.068	U H	6.71	5.64	H	mg/Kg	☼	84	61 - 126	1	30
Phenanthrene	0.014	U H	3.36	2.53	H	mg/Kg	☼	75	66 - 120	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1023993

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1023975

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	0.012	U H	3.36	2.43	H	mg/Kg	☼	73	63 - 120	1	30
Pyrene	0.0083	U H	3.36	2.57	H	mg/Kg	☼	77	61 - 121	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*24 - 137*
2-Fluorobiphenyl	*66*		*38 - 128*
2-Fluorophenol (Surr)	*65*		*31 - 133*
Nitrobenzene-d5 (Surr)	*64*		*31 - 120*
Phenol-d5 (Surr)	*65*		*35 - 132*
Terphenyl-d14 (Surr)	*69*		*44 - 147*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-1018037/1-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 10:35	1
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 10:35	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/24/25 21:14	01/27/25 10:35	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/24/25 21:14	01/27/25 10:35	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/24/25 21:14	01/27/25 10:35	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/24/25 21:14	01/27/25 10:35	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/24/25 21:14	01/27/25 10:35	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/24/25 21:14	01/27/25 10:35	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/24/25 21:14	01/27/25 10:35	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/24/25 21:14	01/27/25 10:35	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 10:35	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 10:35	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/24/25 21:14	01/27/25 10:35	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/24/25 21:14	01/27/25 10:35	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 10:35	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/24/25 21:14	01/27/25 10:35	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/24/25 21:14	01/27/25 10:35	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/24/25 21:14	01/27/25 10:35	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/24/25 21:14	01/27/25 10:35	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 10:35	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1018037/1-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/24/25 21:14	01/27/25 10:35	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/24/25 21:14	01/27/25 10:35	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/24/25 21:14	01/27/25 10:35	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 10:35	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/24/25 21:14	01/27/25 10:35	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/24/25 21:14	01/27/25 10:35	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/24/25 21:14	01/27/25 10:35	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/24/25 21:14	01/27/25 10:35	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/24/25 21:14	01/27/25 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*34 - 120*	*01/24/25 21:14*	*01/27/25 10:35*	*1*
Tetrachloro-m-xylene	*81*		*34 - 120*	*01/24/25 21:14*	*01/27/25 10:35*	*1*
DCB Decachlorobiphenyl	*72*		*30 - 131*	*01/24/25 21:14*	*01/27/25 10:35*	*1*
DCB Decachlorobiphenyl	*62*		*30 - 131*	*01/24/25 21:14*	*01/27/25 10:35*	*1*

Lab Sample ID: LCS 460-1018037/2-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.800	0.733		ug/L		92	67 - 129
Aldrin	0.800	0.647		ug/L		81	67 - 129
alpha-BHC	0.800	0.724		ug/L		91	70 - 125
alpha-BHC	0.800	0.674		ug/L		84	70 - 125
beta-BHC	0.800	0.740		ug/L		92	70 - 129
beta-BHC	0.800	0.641		ug/L		80	70 - 129
4,4'-DDD	0.800	0.730		ug/L		91	69 - 138
4,4'-DDD	0.800	0.674		ug/L		84	69 - 138
4,4'-DDE	0.800	0.782		ug/L		98	68 - 130
4,4'-DDE	0.800	0.696		ug/L		87	68 - 130
4,4'-DDT	0.800	0.822		ug/L		103	57 - 1505
4,4'-DDT	0.800	0.669		ug/L		84	57 - 1505
delta-BHC	0.800	0.659		ug/L		82	44 - 120
delta-BHC	0.800	0.619		ug/L		77	44 - 120
Dieldrin	0.800	0.766		ug/L		96	72 - 128
Dieldrin	0.800	0.674		ug/L		84	72 - 128
Endosulfan I	0.800	0.774		ug/L		97	73 - 127
Endosulfan I	0.800	0.696		ug/L		87	73 - 127
Endosulfan II	0.800	0.778		ug/L		97	73 - 134
Endosulfan II	0.800	0.704		ug/L		88	73 - 134
Endosulfan sulfate	0.800	0.752		ug/L		94	61 - 128
Endosulfan sulfate	0.800	0.603		ug/L		75	61 - 128
Endrin	0.800	0.719		ug/L		90	64 - 138
Endrin	0.800	0.642		ug/L		80	64 - 138
Endrin aldehyde	0.800	0.756		ug/L		94	74 - 133
Endrin aldehyde	0.800	0.660		ug/L		82	74 - 133
Endrin ketone	0.800	0.802		ug/L		100	56 - 150

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1018037/2-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018037

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin ketone			0.800	0.657		ug/L		82	56 - 150		
gamma-BHC (Lindane)			0.800	0.738		ug/L		92	73 - 132		
gamma-BHC (Lindane)			0.800	0.667		ug/L		83	73 - 132		
Heptachlor			0.800	0.735		ug/L		92	70 - 134		
Heptachlor			0.800	0.663		ug/L		83	70 - 134		
Heptachlor epoxide			0.800	0.744		ug/L		93	75 - 126		
Heptachlor epoxide			0.800	0.659		ug/L		82	75 - 126		
Methoxychlor			0.800	0.893		ug/L		112	49 - 150		
Methoxychlor			0.800	0.667		ug/L		83	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*34 - 120*
Tetrachloro-m-xylene	*75*		*34 - 120*
DCB Decachlorobiphenyl	*76*		*30 - 131*
DCB Decachlorobiphenyl	*68*		*30 - 131*

Lab Sample ID: LCSD 460-1018037/3-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018037

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.800	0.772		ug/L		96	67 - 129	5	30
Aldrin			0.800	0.686		ug/L		86	67 - 129	6	30
alpha-BHC			0.800	0.762		ug/L		95	70 - 125	5	30
alpha-BHC			0.800	0.718		ug/L		90	70 - 125	6	30
beta-BHC			0.800	0.776		ug/L		97	70 - 129	5	30
beta-BHC			0.800	0.682		ug/L		85	70 - 129	6	30
4,4'-DDD			0.800	0.768		ug/L		96	69 - 138	5	30
4,4'-DDD			0.800	0.712		ug/L		89	69 - 138	5	30
4,4'-DDE			0.800	0.827		ug/L		103	68 - 130	6	30
4,4'-DDE			0.800	0.735		ug/L		92	68 - 130	6	30
4,4'-DDT			0.800	0.862		ug/L		108	57 - 1505	5	30
4,4'-DDT			0.800	0.705		ug/L		88	57 - 1505	5	30
delta-BHC			0.800	0.691		ug/L		86	44 - 120	5	30
delta-BHC			0.800	0.652		ug/L		81	44 - 120	5	30
Dieldrin			0.800	0.806		ug/L		101	72 - 128	5	30
Dieldrin			0.800	0.711		ug/L		89	72 - 128	5	30
Endosulfan I			0.800	0.814		ug/L		102	73 - 127	5	30
Endosulfan I			0.800	0.736		ug/L		92	73 - 127	5	30
Endosulfan II			0.800	0.821		ug/L		103	73 - 134	5	30
Endosulfan II			0.800	0.744		ug/L		93	73 - 134	5	30
Endosulfan sulfate			0.800	0.794		ug/L		99	61 - 128	5	30
Endosulfan sulfate			0.800	0.636		ug/L		80	61 - 128	5	30
Endrin			0.800	0.745		ug/L		93	64 - 138	4	30
Endrin			0.800	0.675		ug/L		84	64 - 138	5	30
Endrin aldehyde			0.800	0.803		ug/L		100	74 - 133	6	30
Endrin aldehyde			0.800	0.699		ug/L		87	74 - 133	6	30
Endrin ketone			0.800	0.842		ug/L		105	56 - 150	5	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1018037/3-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018037

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin ketone			0.800	0.692		ug/L		87	56 - 150	5	30
gamma-BHC (Lindane)			0.800	0.775		ug/L		97	73 - 132	5	30
gamma-BHC (Lindane)			0.800	0.709		ug/L		89	73 - 132	6	30
Heptachlor			0.800	0.768		ug/L		96	70 - 134	5	30
Heptachlor			0.800	0.699		ug/L		87	70 - 134	5	30
Heptachlor epoxide			0.800	0.785		ug/L		98	75 - 126	5	30
Heptachlor epoxide			0.800	0.696		ug/L		87	75 - 126	5	30
Methoxychlor			0.800	0.929		ug/L		116	49 - 150	4	30
Methoxychlor			0.800	0.697		ug/L		87	49 - 150	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*34 - 120*
Tetrachloro-m-xylene	*77*		*34 - 120*
DCB Decachlorobiphenyl	*77*		*30 - 131*
DCB Decachlorobiphenyl	*68*		*30 - 131*

Lab Sample ID: MB 460-1018105/1-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/25/25 18:37	01/27/25 04:28	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1018105/1-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/25/25 18:37	01/27/25 04:28	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/25/25 18:37	01/27/25 04:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*21 - 150*	*01/25/25 18:37*	*01/27/25 04:28*	*1*
Tetrachloro-m-xylene	*66*		*21 - 150*	*01/25/25 18:37*	*01/27/25 04:28*	*1*
DCB Decachlorobiphenyl	*63*		*17 - 150*	*01/25/25 18:37*	*01/27/25 04:28*	*1*
DCB Decachlorobiphenyl	*56*		*17 - 150*	*01/25/25 18:37*	*01/27/25 04:28*	*1*

Lab Sample ID: LCS 460-1018105/2-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.133	0.111		mg/Kg		84	69 - 136
Aldrin	0.133	0.110		mg/Kg		82	69 - 136
alpha-BHC	0.133	0.118		mg/Kg		88	72 - 134
alpha-BHC	0.133	0.120		mg/Kg		90	72 - 134
beta-BHC	0.133	0.107		mg/Kg		80	71 - 130
beta-BHC	0.133	0.108		mg/Kg		81	71 - 130
4,4'-DDD	0.133	0.102		mg/Kg		77	70 - 138
4,4'-DDD	0.133	0.107		mg/Kg		80	70 - 138
4,4'-DDE	0.133	0.108		mg/Kg		81	68 - 136
4,4'-DDE	0.133	0.104		mg/Kg		78	68 - 136
4,4'-DDT	0.133	0.102		mg/Kg		77	66 - 149
4,4'-DDT	0.133	0.0969		mg/Kg		73	66 - 149
delta-BHC	0.133	0.111		mg/Kg		83	69 - 140
delta-BHC	0.133	0.110		mg/Kg		82	69 - 140
Dieldrin	0.133	0.116		mg/Kg		87	69 - 134
Dieldrin	0.133	0.112		mg/Kg		84	69 - 134
Endosulfan I	0.133	0.118		mg/Kg		89	69 - 133
Endosulfan I	0.133	0.117		mg/Kg		88	69 - 133
Endosulfan II	0.133	0.123		mg/Kg		92	71 - 137
Endosulfan II	0.133	0.121		mg/Kg		91	71 - 137
Endosulfan sulfate	0.133	0.108		mg/Kg		81	61 - 140
Endosulfan sulfate	0.133	0.104		mg/Kg		78	61 - 140
Endrin	0.133	0.121		mg/Kg		90	67 - 141

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1018105/2-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018105

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endrin			0.133	0.121		mg/Kg		90	67 - 141		
Endrin aldehyde			0.133	0.114		mg/Kg		85	71 - 136		
Endrin aldehyde			0.133	0.108		mg/Kg		81	71 - 136		
Endrin ketone			0.133	0.111		mg/Kg		83	60 - 146		
Endrin ketone			0.133	0.105		mg/Kg		78	60 - 146		
gamma-BHC (Lindane)			0.133	0.116		mg/Kg		87	72 - 139		
gamma-BHC (Lindane)			0.133	0.121		mg/Kg		90	72 - 139		
Heptachlor			0.133	0.107		mg/Kg		80	74 - 138		
Heptachlor			0.133	0.107		mg/Kg		80	74 - 138		
Heptachlor epoxide			0.133	0.117		mg/Kg		88	72 - 134		
Heptachlor epoxide			0.133	0.115		mg/Kg		87	72 - 134		
Methoxychlor			0.133	0.0960		mg/Kg		72	60 - 150		
Methoxychlor			0.133	0.0845		mg/Kg		63	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*21 - 150*
Tetrachloro-m-xylene	*66*		*21 - 150*
DCB Decachlorobiphenyl	*63*		*17 - 150*
DCB Decachlorobiphenyl	*53*		*17 - 150*

Lab Sample ID: LCSD 460-1018105/3-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.133	0.108		mg/Kg		81	69 - 136	3	30
Aldrin			0.133	0.108		mg/Kg		81	69 - 136	2	30
alpha-BHC			0.133	0.114		mg/Kg		86	72 - 134	3	30
alpha-BHC			0.133	0.118		mg/Kg		88	72 - 134	2	30
beta-BHC			0.133	0.103		mg/Kg		77	71 - 130	4	30
beta-BHC			0.133	0.109		mg/Kg		82	71 - 130	1	30
4,4'-DDD			0.133	0.101		mg/Kg		76	70 - 138	1	30
4,4'-DDD			0.133	0.109		mg/Kg		82	70 - 138	2	30
4,4'-DDE			0.133	0.107		mg/Kg		80	68 - 136	1	30
4,4'-DDE			0.133	0.107		mg/Kg		80	68 - 136	3	30
4,4'-DDT			0.133	0.102		mg/Kg		77	66 - 149	0	30
4,4'-DDT			0.133	0.0980		mg/Kg		74	66 - 149	1	30
delta-BHC			0.133	0.109		mg/Kg		82	69 - 140	2	30
delta-BHC			0.133	0.110		mg/Kg		82	69 - 140	0	30
Dieldrin			0.133	0.114		mg/Kg		85	69 - 134	2	30
Dieldrin			0.133	0.113		mg/Kg		85	69 - 134	1	30
Endosulfan I			0.133	0.116		mg/Kg		87	69 - 133	2	30
Endosulfan I			0.133	0.116		mg/Kg		87	69 - 133	1	30
Endosulfan II			0.133	0.121		mg/Kg		91	71 - 137	2	30
Endosulfan II			0.133	0.122		mg/Kg		92	71 - 137	1	30
Endosulfan sulfate			0.133	0.108		mg/Kg		81	61 - 140	0	30
Endosulfan sulfate			0.133	0.104		mg/Kg		78	61 - 140	0	30
Endrin			0.133	0.118		mg/Kg		88	67 - 141	3	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1018105/3-A
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018105

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin			0.133	0.121		mg/Kg		91	67 - 141	0	30
Endrin aldehyde			0.133	0.115		mg/Kg		86	71 - 136	1	30
Endrin aldehyde			0.133	0.110		mg/Kg		82	71 - 136	1	30
Endrin ketone			0.133	0.109		mg/Kg		82	60 - 146	1	30
Endrin ketone			0.133	0.105		mg/Kg		79	60 - 146	0	30
gamma-BHC (Lindane)			0.133	0.110		mg/Kg		83	72 - 139	5	30
gamma-BHC (Lindane)			0.133	0.119		mg/Kg		89	72 - 139	2	30
Heptachlor			0.133	0.104		mg/Kg		78	74 - 138	3	30
Heptachlor			0.133	0.106		mg/Kg		79	74 - 138	1	30
Heptachlor epoxide			0.133	0.115		mg/Kg		86	72 - 134	1	30
Heptachlor epoxide			0.133	0.116		mg/Kg		87	72 - 134	0	30
Methoxychlor			0.133	0.0959		mg/Kg		72	60 - 150	0	30
Methoxychlor			0.133	0.0846		mg/Kg		63	60 - 150	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*21 - 150*
Tetrachloro-m-xylene	*63*		*21 - 150*
DCB Decachlorobiphenyl	*60*		*17 - 150*
DCB Decachlorobiphenyl	*51*		*17 - 150*

Lab Sample ID: 460-319135-G-15-M MS
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.0010	U	0.136	0.138		mg/Kg	☼	102	69 - 136
Aldrin	0.0010	U	0.136	0.137		mg/Kg	☼	101	69 - 136
alpha-BHC	0.00069	U	0.136	0.142		mg/Kg	☼	105	72 - 134
alpha-BHC	0.00069	U	0.136	0.147		mg/Kg	☼	108	72 - 134
beta-BHC	0.00076	U	0.136	0.137		mg/Kg	☼	101	71 - 130
beta-BHC	0.00076	U	0.136	0.151		mg/Kg	☼	111	71 - 130
4,4'-DDD	0.0012	U	0.136	0.155		mg/Kg	☼	114	70 - 138
4,4'-DDD	0.0012	U	0.136	0.177		mg/Kg	☼	131	70 - 138
4,4'-DDE	0.00080	U	0.136	0.157		mg/Kg	☼	116	68 - 136
4,4'-DDE	0.00080	U	0.136	0.157		mg/Kg	☼	116	68 - 136
4,4'-DDT	0.0013	U	0.136	0.161		mg/Kg	☼	118	66 - 149
4,4'-DDT	0.0013	U	0.136	0.159		mg/Kg	☼	117	66 - 149
delta-BHC	0.00042	U	0.136	0.159		mg/Kg	☼	117	69 - 140
delta-BHC	0.00042	U	0.136	0.161		mg/Kg	☼	119	69 - 140
Dieldrin	0.00088	U	0.136	0.158		mg/Kg	☼	116	69 - 134
Dieldrin	0.00088	U	0.136	0.158		mg/Kg	☼	117	69 - 134
Endosulfan I	0.0010	U	0.136	0.153		mg/Kg	☼	113	69 - 133
Endosulfan I	0.0010	U	0.136	0.160		mg/Kg	☼	118	69 - 133
Endosulfan II	0.0017	U	0.136	0.174		mg/Kg	☼	128	71 - 137
Endosulfan II	0.0017	U	0.136	0.179		mg/Kg	☼	132	71 - 137
Endosulfan sulfate	0.00085	U	0.136	0.159		mg/Kg	☼	117	61 - 140
Endosulfan sulfate	0.00085	U	0.136	0.160		mg/Kg	☼	118	61 - 140
Endrin	0.00098	U	0.136	0.166		mg/Kg	☼	122	67 - 141

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319135-G-15-M MS
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin	0.00098	U	0.136	0.179		mg/Kg	☼	132	67 - 141
Endrin aldehyde	0.0016	U	0.136	0.141		mg/Kg	☼	104	71 - 136
Endrin aldehyde	0.0016	U	0.136	0.140		mg/Kg	☼	103	71 - 136
Endrin ketone	0.0013	U	0.136	0.167		mg/Kg	☼	123	60 - 146
Endrin ketone	0.0013	U	0.136	0.161		mg/Kg	☼	119	60 - 146
gamma-BHC (Lindane)	0.00063	U	0.136	0.144		mg/Kg	☼	106	72 - 139
gamma-BHC (Lindane)	0.00063	U	0.136	0.152		mg/Kg	☼	112	72 - 139
Heptachlor	0.00080	U	0.136	0.143		mg/Kg	☼	106	74 - 138
Heptachlor	0.00080	U	0.136	0.148		mg/Kg	☼	109	74 - 138
Heptachlor epoxide	0.0010	U	0.136	0.157		mg/Kg	☼	116	72 - 134
Heptachlor epoxide	0.0010	U	0.136	0.156		mg/Kg	☼	115	72 - 134
Methoxychlor	0.0016	U	0.136	0.159		mg/Kg	☼	117	60 - 150
Methoxychlor	0.0016	U	0.136	0.144		mg/Kg	☼	106	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*61*		*21 - 150*
Tetrachloro-m-xylene	*58*		*21 - 150*
DCB Decachlorobiphenyl	*80*		*17 - 150*
DCB Decachlorobiphenyl	*67*		*17 - 150*

Lab Sample ID: 460-319135-G-15-N MSD
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.0010	U	0.136	0.150		mg/Kg	☼	111	69 - 136	9	30
Aldrin	0.0010	U	0.136	0.139		mg/Kg	☼	102	69 - 136	2	30
alpha-BHC	0.00069	U	0.136	0.157		mg/Kg	☼	116	72 - 134	10	30
alpha-BHC	0.00069	U	0.136	0.154		mg/Kg	☼	113	72 - 134	5	30
beta-BHC	0.00076	U	0.136	0.158		mg/Kg	☼	117	71 - 130	14	30
beta-BHC	0.00076	U	0.136	0.155		mg/Kg	☼	115	71 - 130	3	30
4,4'-DDD	0.0012	U	0.136	0.169		mg/Kg	☼	125	70 - 138	9	30
4,4'-DDD	0.0012	U	0.136	0.175		mg/Kg	☼	129	70 - 138	1	30
4,4'-DDE	0.00080	U	0.136	0.170		mg/Kg	☼	125	68 - 136	8	30
4,4'-DDE	0.00080	U	0.136	0.157		mg/Kg	☼	116	68 - 136	0	30
4,4'-DDT	0.0013	U	0.136	0.176		mg/Kg	☼	130	66 - 149	9	30
4,4'-DDT	0.0013	U	0.136	0.158		mg/Kg	☼	117	66 - 149	0	30
delta-BHC	0.00042	U	0.136	0.172		mg/Kg	☼	127	69 - 140	8	30
delta-BHC	0.00042	U	0.136	0.163		mg/Kg	☼	120	69 - 140	1	30
Dieldrin	0.00088	U	0.136	0.171		mg/Kg	☼	126	69 - 134	8	30
Dieldrin	0.00088	U	0.136	0.158		mg/Kg	☼	116	69 - 134	0	30
Endosulfan I	0.0010	U	0.136	0.172		mg/Kg	☼	127	69 - 133	11	30
Endosulfan I	0.0010	U	0.136	0.160		mg/Kg	☼	118	69 - 133	0	30
Endosulfan II	0.0017	U	0.136	0.190	F1	mg/Kg	☼	140	71 - 137	9	30
Endosulfan II	0.0017	U	0.136	0.177		mg/Kg	☼	131	71 - 137	1	30
Endosulfan sulfate	0.00085	U	0.136	0.171		mg/Kg	☼	126	61 - 140	7	30
Endosulfan sulfate	0.00085	U	0.136	0.158		mg/Kg	☼	117	61 - 140	1	30
Endrin	0.00098	U	0.136	0.176		mg/Kg	☼	130	67 - 141	6	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319135-G-15-N MSD
Matrix: Solid
Analysis Batch: 1018163

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endrin	0.00098	U	0.136	0.172		mg/Kg	☼	127	67 - 141	4	30
Endrin aldehyde	0.0016	U	0.136	0.149		mg/Kg	☼	110	71 - 136	6	30
Endrin aldehyde	0.0016	U	0.136	0.135		mg/Kg	☼	100	71 - 136	3	30
Endrin ketone	0.0013	U	0.136	0.184		mg/Kg	☼	136	60 - 146	10	30
Endrin ketone	0.0013	U	0.136	0.165		mg/Kg	☼	122	60 - 146	2	30
gamma-BHC (Lindane)	0.00063	U	0.136	0.162		mg/Kg	☼	119	72 - 139	12	30
gamma-BHC (Lindane)	0.00063	U	0.136	0.156		mg/Kg	☼	115	72 - 139	2	30
Heptachlor	0.00080	U	0.136	0.157		mg/Kg	☼	116	74 - 138	9	30
Heptachlor	0.00080	U	0.136	0.151		mg/Kg	☼	111	74 - 138	2	30
Heptachlor epoxide	0.0010	U	0.136	0.170		mg/Kg	☼	125	72 - 134	8	30
Heptachlor epoxide	0.0010	U	0.136	0.156		mg/Kg	☼	115	72 - 134	0	30
Methoxychlor	0.0016	U	0.136	0.172		mg/Kg	☼	127	60 - 150	8	30
Methoxychlor	0.0016	U	0.136	0.142		mg/Kg	☼	105	60 - 150	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*21 - 150*
Tetrachloro-m-xylene	*61*		*21 - 150*
DCB Decachlorobiphenyl	*83*		*17 - 150*
DCB Decachlorobiphenyl	*68*		*17 - 150*

Lab Sample ID: MB 460-1024269/1-A
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/05/25 17:27	03/06/25 04:12	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1024269/1-A
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		03/05/25 17:27	03/06/25 04:12	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		03/05/25 17:27	03/06/25 04:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*21 - 150*	*03/05/25 17:27*	*03/06/25 04:12*	*1*
Tetrachloro-m-xylene	*89*		*21 - 150*	*03/05/25 17:27*	*03/06/25 04:12*	*1*
DCB Decachlorobiphenyl	*70*		*17 - 150*	*03/05/25 17:27*	*03/06/25 04:12*	*1*
DCB Decachlorobiphenyl	*66*		*17 - 150*	*03/05/25 17:27*	*03/06/25 04:12*	*1*

Lab Sample ID: LCS 460-1024269/2-A
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.133	0.130		mg/Kg		97	69 - 136
Aldrin	0.133	0.120		mg/Kg		90	69 - 136
alpha-BHC	0.133	0.136		mg/Kg		102	72 - 134
alpha-BHC	0.133	0.125		mg/Kg		94	72 - 134
beta-BHC	0.133	0.124		mg/Kg		93	71 - 130
beta-BHC	0.133	0.120		mg/Kg		90	71 - 130
4,4'-DDD	0.133	0.128		mg/Kg		96	70 - 138
4,4'-DDD	0.133	0.129		mg/Kg		97	70 - 138
4,4'-DDE	0.133	0.136		mg/Kg		102	68 - 136
4,4'-DDE	0.133	0.129		mg/Kg		97	68 - 136
4,4'-DDT	0.133	0.124		mg/Kg		93	66 - 149
4,4'-DDT	0.133	0.123		mg/Kg		92	66 - 149
delta-BHC	0.133	0.129		mg/Kg		97	69 - 140
delta-BHC	0.133	0.123		mg/Kg		93	69 - 140
Dieldrin	0.133	0.135		mg/Kg		101	69 - 134
Dieldrin	0.133	0.126		mg/Kg		95	69 - 134
Endosulfan I	0.133	0.134		mg/Kg		100	69 - 133
Endosulfan I	0.133	0.129		mg/Kg		97	69 - 133
Endosulfan II	0.133	0.131		mg/Kg		98	71 - 137

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1024269/2-A
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024269

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endosulfan II			0.133	0.133		mg/Kg		100	71 - 137		
Endosulfan sulfate			0.133	0.129		mg/Kg		97	61 - 140		
Endosulfan sulfate			0.133	0.116		mg/Kg		87	61 - 140		
Endrin			0.133	0.133		mg/Kg		100	67 - 141		
Endrin			0.133	0.123		mg/Kg		93	67 - 141		
Endrin aldehyde			0.133	0.126		mg/Kg		94	71 - 136		
Endrin aldehyde			0.133	0.121		mg/Kg		91	71 - 136		
Endrin ketone			0.133	0.125		mg/Kg		94	60 - 146		
Endrin ketone			0.133	0.119		mg/Kg		89	60 - 146		
gamma-BHC (Lindane)			0.133	0.132		mg/Kg		99	72 - 139		
gamma-BHC (Lindane)			0.133	0.123		mg/Kg		92	72 - 139		
Heptachlor			0.133	0.126		mg/Kg		95	74 - 138		
Heptachlor			0.133	0.123		mg/Kg		92	74 - 138		
Heptachlor epoxide			0.133	0.134		mg/Kg		101	72 - 134		
Heptachlor epoxide			0.133	0.122		mg/Kg		91	72 - 134		
Methoxychlor			0.133	0.132		mg/Kg		99	60 - 150		
Methoxychlor			0.133	0.123		mg/Kg		92	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*21 - 150*
Tetrachloro-m-xylene	*86*		*21 - 150*
DCB Decachlorobiphenyl	*62*		*17 - 150*
DCB Decachlorobiphenyl	*62*		*17 - 150*

Lab Sample ID: LCSD 460-1024269/3-A
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024269

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.133	0.121		mg/Kg		91	69 - 136	7	30
Aldrin			0.133	0.112		mg/Kg		84	69 - 136	6	30
alpha-BHC			0.133	0.127		mg/Kg		95	72 - 134	7	30
alpha-BHC			0.133	0.118		mg/Kg		88	72 - 134	6	30
beta-BHC			0.133	0.116		mg/Kg		87	71 - 130	7	30
beta-BHC			0.133	0.110		mg/Kg		82	71 - 130	9	30
4,4'-DDD			0.133	0.118		mg/Kg		89	70 - 138	8	30
4,4'-DDD			0.133	0.120		mg/Kg		90	70 - 138	7	30
4,4'-DDE			0.133	0.127		mg/Kg		95	68 - 136	7	30
4,4'-DDE			0.133	0.120		mg/Kg		90	68 - 136	7	30
4,4'-DDT			0.133	0.113		mg/Kg		85	66 - 149	9	30
4,4'-DDT			0.133	0.114		mg/Kg		85	66 - 149	8	30
delta-BHC			0.133	0.120		mg/Kg		90	69 - 140	7	30
delta-BHC			0.133	0.115		mg/Kg		86	69 - 140	7	30
Dieldrin			0.133	0.125		mg/Kg		94	69 - 134	7	30
Dieldrin			0.133	0.118		mg/Kg		88	69 - 134	7	30
Endosulfan I			0.133	0.125		mg/Kg		94	69 - 133	7	30
Endosulfan I			0.133	0.121		mg/Kg		91	69 - 133	7	30
Endosulfan II			0.133	0.122		mg/Kg		91	71 - 137	7	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1024269/3-A
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024269

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan II			0.133	0.124		mg/Kg		93	71 - 137	7	30
Endosulfan sulfate			0.133	0.120		mg/Kg		90	61 - 140	7	30
Endosulfan sulfate			0.133	0.108		mg/Kg		81	61 - 140	7	30
Endrin			0.133	0.123		mg/Kg		92	67 - 141	8	30
Endrin			0.133	0.115		mg/Kg		86	67 - 141	7	30
Endrin aldehyde			0.133	0.117		mg/Kg		88	71 - 136	7	30
Endrin aldehyde			0.133	0.113		mg/Kg		85	71 - 136	6	30
Endrin ketone			0.133	0.117		mg/Kg		87	60 - 146	7	30
Endrin ketone			0.133	0.111		mg/Kg		83	60 - 146	7	30
gamma-BHC (Lindane)			0.133	0.123		mg/Kg		92	72 - 139	7	30
gamma-BHC (Lindane)			0.133	0.115		mg/Kg		86	72 - 139	7	30
Heptachlor			0.133	0.117		mg/Kg		88	74 - 138	7	30
Heptachlor			0.133	0.115		mg/Kg		86	74 - 138	7	30
Heptachlor epoxide			0.133	0.125		mg/Kg		94	72 - 134	7	30
Heptachlor epoxide			0.133	0.114		mg/Kg		85	72 - 134	7	30
Methoxychlor			0.133	0.120		mg/Kg		90	60 - 150	9	30
Methoxychlor			0.133	0.115		mg/Kg		86	60 - 150	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*21 - 150*
Tetrachloro-m-xylene	*80*		*21 - 150*
DCB Decachlorobiphenyl	*58*		*17 - 150*
DCB Decachlorobiphenyl	*61*		*17 - 150*

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024269

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0011	U H	0.134	0.123	H	mg/Kg	☼	92	70 - 138
4,4'-DDD	0.0011	U H	0.134	0.128	H	mg/Kg	☼	95	70 - 138
4,4'-DDE	0.00079	U H	0.134	0.133	H	mg/Kg	☼	99	68 - 136
4,4'-DDE	0.00079	U H	0.134	0.128	H	mg/Kg	☼	95	68 - 136
4,4'-DDT	0.0012	U H	0.134	0.110	H	mg/Kg	☼	82	66 - 149
4,4'-DDT	0.0012	U H	0.134	0.118	H	mg/Kg	☼	88	66 - 149
Aldrin	0.0010	U H	0.134	0.129	H	mg/Kg	☼	96	69 - 136
Aldrin	0.0010	U H	0.134	0.121	H	mg/Kg	☼	90	69 - 136
alpha-BHC	0.00068	U H	0.134	0.131	H	mg/Kg	☼	98	72 - 134
alpha-BHC	0.00068	U H	0.134	0.128	H	mg/Kg	☼	95	72 - 134
beta-BHC	0.00075	U H	0.134	0.118	H	mg/Kg	☼	88	71 - 130
beta-BHC	0.00075	U H	0.134	0.120	H	mg/Kg	☼	89	71 - 130
delta-BHC	0.00041	U H	0.134	0.124	H	mg/Kg	☼	93	69 - 140
delta-BHC	0.00041	U H	0.134	0.125	H	mg/Kg	☼	93	69 - 140
Dieldrin	0.00087	U H	0.134	0.132	H	mg/Kg	☼	98	69 - 134
Dieldrin	0.00087	U H	0.134	0.125	H	mg/Kg	☼	93	69 - 134
Endosulfan I	0.0010	U H	0.134	0.128	H	mg/Kg	☼	95	69 - 133
Endosulfan I	0.0010	U H	0.134	0.131	H	mg/Kg	☼	98	69 - 133
Endosulfan II	0.0017	U H	0.134	0.126	H	mg/Kg	☼	94	71 - 137

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024269

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Endosulfan II	0.0017	U H	0.134	0.132	H	mg/Kg	☼	98	71 - 137
Endosulfan sulfate	0.00084	U H	0.134	0.127	H	mg/Kg	☼	95	61 - 140
Endosulfan sulfate	0.00084	U H	0.134	0.115	H	mg/Kg	☼	86	61 - 140
Endrin	0.00096	U H	0.134	0.127	H	mg/Kg	☼	95	67 - 141
Endrin	0.00096	U H	0.134	0.122	H	mg/Kg	☼	91	67 - 141
Endrin aldehyde	0.0016	U H	0.134	0.125	H	mg/Kg	☼	93	71 - 136
Endrin aldehyde	0.0016	U H	0.134	0.123	H	mg/Kg	☼	92	71 - 136
Endrin ketone	0.0013	U H	0.134	0.125	H	mg/Kg	☼	93	60 - 146
Endrin ketone	0.0013	U H	0.134	0.120	H	mg/Kg	☼	89	60 - 146
gamma-BHC (Lindane)	0.00062	U H	0.134	0.127	H	mg/Kg	☼	94	72 - 139
gamma-BHC (Lindane)	0.00062	U H	0.134	0.124	H	mg/Kg	☼	92	72 - 139
Heptachlor	0.00079	U H	0.134	0.117	H	mg/Kg	☼	88	74 - 138
Heptachlor	0.00079	U H	0.134	0.122	H	mg/Kg	☼	91	74 - 138
Heptachlor epoxide	0.0010	U H	0.134	0.132	H	mg/Kg	☼	98	72 - 134
Heptachlor epoxide	0.0010	U H	0.134	0.123	H	mg/Kg	☼	91	72 - 134
Methoxychlor	0.0015	U H	0.134	0.119	H	mg/Kg	☼	89	60 - 150
Methoxychlor	0.0015	U H	0.134	0.120	H	mg/Kg	☼	89	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*65*		*17 - 150*
DCB Decachlorobiphenyl	*65*		*17 - 150*
Tetrachloro-m-xylene	*81*		*21 - 150*
Tetrachloro-m-xylene	*84*		*21 - 150*

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024269

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0011	U H	0.134	0.123	H	mg/Kg	☼	92	70 - 138	0	30
4,4'-DDD	0.0011	U H	0.134	0.126	H	mg/Kg	☼	94	70 - 138	1	30
4,4'-DDE	0.00079	U H	0.134	0.133	H	mg/Kg	☼	99	68 - 136	0	30
4,4'-DDE	0.00079	U H	0.134	0.126	H	mg/Kg	☼	94	68 - 136	1	30
4,4'-DDT	0.0012	U H	0.134	0.110	H	mg/Kg	☼	82	66 - 149	1	30
4,4'-DDT	0.0012	U H	0.134	0.117	H	mg/Kg	☼	87	66 - 149	1	30
Aldrin	0.0010	U H	0.134	0.129	H	mg/Kg	☼	96	69 - 136	0	30
Aldrin	0.0010	U H	0.134	0.119	H	mg/Kg	☼	89	69 - 136	2	30
alpha-BHC	0.00068	U H	0.134	0.132	H	mg/Kg	☼	99	72 - 134	1	30
alpha-BHC	0.00068	U H	0.134	0.126	H	mg/Kg	☼	94	72 - 134	1	30
beta-BHC	0.00075	U H	0.134	0.118	H	mg/Kg	☼	88	71 - 130	0	30
beta-BHC	0.00075	U H	0.134	0.119	H	mg/Kg	☼	89	71 - 130	1	30
delta-BHC	0.00041	U H	0.134	0.125	H	mg/Kg	☼	93	69 - 140	0	30
delta-BHC	0.00041	U H	0.134	0.123	H	mg/Kg	☼	92	69 - 140	1	30
Dieldrin	0.00087	U H	0.134	0.132	H	mg/Kg	☼	99	69 - 134	0	30
Dieldrin	0.00087	U H	0.134	0.124	H	mg/Kg	☼	93	69 - 134	1	30
Endosulfan I	0.0010	U H	0.134	0.128	H	mg/Kg	☼	96	69 - 133	0	30
Endosulfan I	0.0010	U H	0.134	0.130	H	mg/Kg	☼	97	69 - 133	1	30
Endosulfan II	0.0017	U H	0.134	0.126	H	mg/Kg	☼	94	71 - 137	0	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024333

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024269

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan II	0.0017	U H	0.134	0.130	H	mg/Kg	☼	97	71 - 137	1	30
Endosulfan sulfate	0.00084	U H	0.134	0.127	H	mg/Kg	☼	95	61 - 140	0	30
Endosulfan sulfate	0.00084	U H	0.134	0.114	H	mg/Kg	☼	85	61 - 140	1	30
Endrin	0.00096	U H	0.134	0.129	H	mg/Kg	☼	96	67 - 141	2	30
Endrin	0.00096	U H	0.134	0.120	H	mg/Kg	☼	90	67 - 141	1	30
Endrin aldehyde	0.0016	U H	0.134	0.125	H	mg/Kg	☼	93	71 - 136	0	30
Endrin aldehyde	0.0016	U H	0.134	0.122	H	mg/Kg	☼	91	71 - 136	1	30
Endrin ketone	0.0013	U H	0.134	0.125	H	mg/Kg	☼	93	60 - 146	0	30
Endrin ketone	0.0013	U H	0.134	0.118	H	mg/Kg	☼	88	60 - 146	1	30
gamma-BHC (Lindane)	0.00062	U H	0.134	0.127	H	mg/Kg	☼	95	72 - 139	0	30
gamma-BHC (Lindane)	0.00062	U H	0.134	0.122	H	mg/Kg	☼	91	72 - 139	1	30
Heptachlor	0.00079	U H	0.134	0.118	H	mg/Kg	☼	88	74 - 138	0	30
Heptachlor	0.00079	U H	0.134	0.121	H	mg/Kg	☼	90	74 - 138	1	30
Heptachlor epoxide	0.0010	U H	0.134	0.132	H	mg/Kg	☼	99	72 - 134	0	30
Heptachlor epoxide	0.0010	U H	0.134	0.121	H	mg/Kg	☼	90	72 - 134	1	30
Methoxychlor	0.0015	U H	0.134	0.119	H	mg/Kg	☼	89	60 - 150	0	30
Methoxychlor	0.0015	U H	0.134	0.118	H	mg/Kg	☼	88	60 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*17 - 150*
DCB Decachlorobiphenyl	*69*		*17 - 150*
Tetrachloro-m-xylene	*83*		*21 - 150*
Tetrachloro-m-xylene	*86*		*21 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-1018033/1-A
Matrix: Water
Analysis Batch: 1018186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 07:58	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/24/25 21:04	01/27/25 07:58	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1018033/1-A
Matrix: Water
Analysis Batch: 1018186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/24/25 21:04	01/27/25 07:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*18 - 145*	*01/24/25 21:04*	*01/27/25 07:58*	*1*
DCB Decachlorobiphenyl	*67*		*18 - 145*	*01/24/25 21:04*	*01/27/25 07:58*	*1*
Tetrachloro-m-xylene	*86*		*21 - 124*	*01/24/25 21:04*	*01/27/25 07:58*	*1*
Tetrachloro-m-xylene	*87*		*21 - 124*	*01/24/25 21:04*	*01/27/25 07:58*	*1*

Lab Sample ID: LCS 460-1018033/2-A
Matrix: Water
Analysis Batch: 1018186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	4.00	3.55		ug/L		89	42 - 120
Aroclor 1016	4.00	3.49		ug/L		87	42 - 120
Aroclor 1260	4.00	3.59		ug/L		90	42 - 126
Aroclor 1260	4.00	3.57		ug/L		89	42 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*62*		*18 - 145*
DCB Decachlorobiphenyl	*67*		*18 - 145*
Tetrachloro-m-xylene	*86*		*21 - 124*
Tetrachloro-m-xylene	*89*		*21 - 124*

Lab Sample ID: LCSD 460-1018033/3-A
Matrix: Water
Analysis Batch: 1018186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018033

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	4.00	3.55		ug/L		89	42 - 120	0	30
Aroclor 1016	4.00	3.71		ug/L		93	42 - 120	6	30
Aroclor 1260	4.00	3.72		ug/L		93	42 - 126	4	30
Aroclor 1260	4.00	3.79		ug/L		95	42 - 126	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*63*		*18 - 145*
DCB Decachlorobiphenyl	*69*		*18 - 145*
Tetrachloro-m-xylene	*87*		*21 - 124*
Tetrachloro-m-xylene	*91*		*21 - 124*

Lab Sample ID: MB 460-1018104/1-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1018104/1-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/25/25 18:34	01/27/25 07:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:22*	*1*
DCB Decachlorobiphenyl	*86*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:22*	*1*
Tetrachloro-m-xylene	*81*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:22*	*1*
Tetrachloro-m-xylene	*78*		*20 - 150*	*01/25/25 18:34*	*01/27/25 07:22*	*1*

Lab Sample ID: LCS 460-1018104/2-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018104

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.320		mg/Kg		96	54 - 136		
Aroclor 1016			0.333	0.296		mg/Kg		89	54 - 136		
Aroclor 1260			0.333	0.329		mg/Kg		99	53 - 145		
Aroclor 1260			0.333	0.331		mg/Kg		99	53 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*77*		*20 - 150*
DCB Decachlorobiphenyl	*77*		*20 - 150*
Tetrachloro-m-xylene	*82*		*20 - 150*
Tetrachloro-m-xylene	*81*		*20 - 150*

Lab Sample ID: LCSD 460-1018104/3-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.317		mg/Kg		95	54 - 136	1	30
Aroclor 1016			0.333	0.295		mg/Kg		88	54 - 136	1	30

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-1018104/3-A
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1260			0.333	0.331		mg/Kg		99	53 - 145	1	30
Aroclor 1260			0.333	0.303		mg/Kg		91	53 - 145	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*79*		*20 - 150*
DCB Decachlorobiphenyl	*78*		*20 - 150*
Tetrachloro-m-xylene	*82*		*20 - 150*
Tetrachloro-m-xylene	*80*		*20 - 150*

Lab Sample ID: 460-319135-G-15-J MS
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.018	U	0.339	0.452		mg/Kg	☼	133	54 - 136
Aroclor 1016	0.018	U	0.339	0.431		mg/Kg	☼	127	54 - 136
Aroclor 1260	0.018	U F1	0.339	0.473		mg/Kg	☼	139	53 - 145
Aroclor 1260	0.018	U F1	0.339	0.483		mg/Kg	☼	143	53 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*20 - 150*
DCB Decachlorobiphenyl	*93*		*20 - 150*
Tetrachloro-m-xylene	*83*		*20 - 150*
Tetrachloro-m-xylene	*83*		*20 - 150*

Lab Sample ID: 460-319135-G-15-K MSD
Matrix: Solid
Analysis Batch: 1018184

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018104

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.018	U	0.339	0.469	F1	mg/Kg	☼	138	54 - 136	4	30
Aroclor 1016	0.018	U	0.339	0.446		mg/Kg	☼	132	54 - 136	3	30
Aroclor 1260	0.018	U F1	0.339	0.500	F1	mg/Kg	☼	148	53 - 145	6	30
Aroclor 1260	0.018	U F1	0.339	0.505	F1	mg/Kg	☼	149	53 - 145	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*98*		*20 - 150*
DCB Decachlorobiphenyl	*99*		*20 - 150*
Tetrachloro-m-xylene	*86*		*20 - 150*
Tetrachloro-m-xylene	*85*		*20 - 150*

Lab Sample ID: MB 460-1024267/1-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1024267/1-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:21	03/06/25 08:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*20 - 150*	*03/05/25 17:21*	*03/06/25 08:50*	*1*
DCB Decachlorobiphenyl	*71*		*20 - 150*	*03/05/25 17:21*	*03/06/25 08:50*	*1*
Tetrachloro-m-xylene	*99*		*20 - 150*	*03/05/25 17:21*	*03/06/25 08:50*	*1*
Tetrachloro-m-xylene	*97*		*20 - 150*	*03/05/25 17:21*	*03/06/25 08:50*	*1*

Lab Sample ID: LCS 460-1024267/2-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024267

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.338		mg/Kg		101	54 - 136		
Aroclor 1016			0.333	0.337		mg/Kg		101	54 - 136		
Aroclor 1260			0.333	0.344		mg/Kg		103	53 - 145		
Aroclor 1260			0.333	0.354		mg/Kg		106	53 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*20 - 150*
DCB Decachlorobiphenyl	*74*		*20 - 150*
Tetrachloro-m-xylene	*98*		*20 - 150*
Tetrachloro-m-xylene	*102*		*20 - 150*

Lab Sample ID: LCSD 460-1024267/3-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024267

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.336		mg/Kg		101	54 - 136	1	30
Aroclor 1016			0.333	0.321		mg/Kg		96	54 - 136	5	30

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-1024267/3-A
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024267

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1260			0.333	0.337		mg/Kg		101	53 - 145	2	30
Aroclor 1260			0.333	0.337		mg/Kg		101	53 - 145	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*70*		*20 - 150*
DCB Decachlorobiphenyl	*68*		*20 - 150*
Tetrachloro-m-xylene	*94*		*20 - 150*
Tetrachloro-m-xylene	*94*		*20 - 150*

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.018	U	0.334	0.387		mg/Kg	☼	116	54 - 136
Aroclor 1016	0.018	U	0.334	0.371		mg/Kg	☼	111	54 - 136
Aroclor 1260	0.018	U	0.334	0.382		mg/Kg	☼	114	53 - 145
Aroclor 1260	0.018	U	0.334	0.385		mg/Kg	☼	115	53 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*20 - 150*
DCB Decachlorobiphenyl	*79*		*20 - 150*
Tetrachloro-m-xylene	*111*		*20 - 150*
Tetrachloro-m-xylene	*110*		*20 - 150*

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024358

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.018	U	0.334	0.309		mg/Kg	☼	93	54 - 136	22	30
Aroclor 1016	0.018	U	0.334	0.296		mg/Kg	☼	89	54 - 136	22	30
Aroclor 1260	0.018	U	0.334	0.293		mg/Kg	☼	88	53 - 145	26	30
Aroclor 1260	0.018	U	0.334	0.308		mg/Kg	☼	92	53 - 145	22	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*20 - 150*
DCB Decachlorobiphenyl	*50*		*20 - 150*
Tetrachloro-m-xylene	*71*		*20 - 150*
Tetrachloro-m-xylene	*72*		*20 - 150*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Lab Sample ID: MB 460-1018029/1-A
Matrix: Water
Analysis Batch: 1018053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH (C9-C40)	0.40	U	0.40	0.40	mg/L		01/24/25 20:35	01/25/25 10:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*40 - 140*	*01/24/25 20:35*	*01/25/25 10:08*	*1*
1-Chlorooctadecane	*85*		*40 - 140*	*01/24/25 20:35*	*01/25/25 10:08*	*1*

Lab Sample ID: LCS 460-1018029/2-A
Matrix: Water
Analysis Batch: 1018053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total EPH (C9-C40)			4.00	3.00		mg/L		75	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*75*		*40 - 140*
1-Chlorooctadecane	*96*		*40 - 140*

Lab Sample ID: LCSD 460-1018029/3-A
Matrix: Water
Analysis Batch: 1018053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018029

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total EPH (C9-C40)			4.00	3.02		mg/L		75	40 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*72*		*40 - 140*
1-Chlorooctadecane	*93*		*40 - 140*

Lab Sample ID: MB 460-1018231/1-A
Matrix: Solid
Analysis Batch: 1018367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/27/25 10:06	01/28/25 09:52	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		01/27/25 10:06	01/28/25 09:52	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/27/25 10:06	01/28/25 09:52	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		01/27/25 10:06	01/28/25 09:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*71*		*40 - 140*	*01/27/25 10:06*	*01/28/25 09:52*	*1*

Lab Sample ID: MB 460-1018231/1-A
Matrix: Solid
Analysis Batch: 1018368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		01/27/25 10:06	01/28/25 10:51	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: MB 460-1018231/1-A
Matrix: Solid
Analysis Batch: 1018368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		01/27/25 10:06	01/28/25 10:51	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		01/27/25 10:06	01/28/25 10:51	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		01/27/25 10:06	01/28/25 10:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*40 - 140*	*01/27/25 10:06*	*01/28/25 10:51*	*1*
2-Fluorobiphenyl	*80*		*40 - 140*	*01/27/25 10:06*	*01/28/25 10:51*	*1*
2-Bromonaphthalene	*85*		*40 - 140*	*01/27/25 10:06*	*01/28/25 10:51*	*1*

Lab Sample ID: LCS 460-1018231/2-A
Matrix: Solid
Analysis Batch: 1018367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	20.0	9.08		mg/Kg		45	40 - 140
C9-C12 Aliphatics	26.7	11.4		mg/Kg		43	40 - 140
C16-C21 Aliphatics	20.0	14.0		mg/Kg		70	40 - 140
C21-C40 Aliphatics	66.7	31.9		mg/Kg		48	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane	*79*		*40 - 140*

Lab Sample ID: LCS 460-1018231/2-A
Matrix: Solid
Analysis Batch: 1018368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C16-C21 Aromatics	33.3	30.4		mg/Kg		91	40 - 140
C10-C12 Aromatics	20.0	13.4		mg/Kg		67	40 - 140
C12-C16 Aromatics	26.7	18.8		mg/Kg		70	40 - 140
C21-C36 Aromatic	53.3	42.8		mg/Kg		80	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*88*		*40 - 140*
2-Fluorobiphenyl	*83*		*40 - 140*
2-Bromonaphthalene	*85*		*40 - 140*

Lab Sample ID: LCSD 460-1018231/3-A
Matrix: Solid
Analysis Batch: 1018367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018231

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	20.0	8.82		mg/Kg		44	40 - 140	3	25
C9-C12 Aliphatics	26.7	11.1		mg/Kg		41	40 - 140	3	25
C16-C21 Aliphatics	20.0	13.6		mg/Kg		68	40 - 140	3	25
C21-C40 Aliphatics	66.7	31.6		mg/Kg		47	40 - 140	1	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCSD 460-1018231/3-A
Matrix: Solid
Analysis Batch: 1018367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018231

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane	*76*		*40 - 140*

Lab Sample ID: LCSD 460-1018231/3-A
Matrix: Solid
Analysis Batch: 1018368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018231

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C16-C21 Aromatics			33.3	31.3		mg/Kg		94	40 - 140	3	25
C10-C12 Aromatics			20.0	13.8		mg/Kg		69	40 - 140	3	25
C12-C16 Aromatics			26.7	19.4		mg/Kg		73	40 - 140	4	25
C21-C36 Aromatic			53.3	44.2		mg/Kg		83	40 - 140	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*89*		*40 - 140*
2-Fluorobiphenyl	*87*		*40 - 140*
2-Bromonaphthalene	*89*		*40 - 140*

Lab Sample ID: 180-185371-D-5-K MS
Matrix: Solid
Analysis Batch: 1018367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics	11	F2 F1	42.8	6.26	F1	mg/Kg	☼	-11	40 - 140		
C9-C12 Aliphatics	6.4	U F1	57.1	6.4	U F1	mg/Kg	☼	0	40 - 140		
C16-C21 Aliphatics	26	F2 F1	42.8	14.2	F1	mg/Kg	☼	-28	40 - 140		
C21-C40 Aliphatics	120	F2 F1	143	72.2	F1	mg/Kg	☼	-37	40 - 140		
C16-C21 Aromatics	11	F1	71.4	11	U F1	mg/Kg	☼	0	40 - 140		
C10-C12 Aromatics	5.1	F1	42.8	7.00	F1	mg/Kg	☼	5	40 - 140		
C12-C16 Aromatics	6.4	U F1	57.1	6.4	U F1	mg/Kg	☼	0	40 - 140		
C21-C36 Aromatic	53	F2 F1	114	31.2	F1	mg/Kg	☼	-19	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*62*		*40 - 140*
2-Fluorobiphenyl	*83*		*40 - 140*
2-Bromonaphthalene	*83*		*40 - 140*
1-Chlorooctadecane	*68*		*40 - 140*

Lab Sample ID: 180-185371-D-5-L MSD
Matrix: Solid
Analysis Batch: 1018367

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	11	F2 F1	42.8	9.23	F2 F1	mg/Kg	☼	-4	40 - 140	38	25
C9-C12 Aliphatics	6.4	U F1	57.1	6.4	U F1	mg/Kg	☼	0	40 - 140	NC	25
C16-C21 Aliphatics	26	F2 F1	42.8	22.9	F2 F1	mg/Kg	☼	-7	40 - 140	47	25
C21-C40 Aliphatics	120	F2 F1	143	110	F2 F1	mg/Kg	☼	-10	40 - 140	41	25
C16-C21 Aromatics	11	F1	71.4	11	U F1	mg/Kg	☼	0	40 - 140	NC	25
C10-C12 Aromatics	5.1	F1	42.8	6.89	F1	mg/Kg	☼	4	40 - 140	2	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 180-185371-D-5-L MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1018368 — **Prep Batch: 1018231**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aromatics	6.4	U F1	57.1	6.4	U F1	mg/Kg	☼	0	40 - 140	NC	25
C21-C36 Aromatic	53	F2 F1	114	50.5	F2 F1	mg/Kg	☼	-2	40 - 140	47	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*65*		*40 - 140*
2-Fluorobiphenyl	*90*		*40 - 140*
2-Bromonaphthalene	*90*		*40 - 140*
1-Chlorooctadecane	*65*		*40 - 140*

Lab Sample ID: MB 460-1024433/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1024460 — **Prep Batch: 1024433**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*40 - 140*	*03/06/25 10:35*	*03/06/25 20:46*	*1*
2-Fluorobiphenyl	*90*		*40 - 140*	*03/06/25 10:35*	*03/06/25 20:46*	*1*
2-Bromonaphthalene	*92*		*40 - 140*	*03/06/25 10:35*	*03/06/25 20:46*	*1*
1-Chlorooctadecane	*71*		*40 - 140*	*03/06/25 10:35*	*03/06/25 20:46*	*1*

Lab Sample ID: LCS 460-1024433/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 1024460 — **Prep Batch: 1024433**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	20.0	9.63		mg/Kg		48	40 - 140
C9-C12 Aliphatics	26.7	11.2		mg/Kg		42	40 - 140
C16-C21 Aliphatics	20.0	16.3		mg/Kg		81	40 - 140
C21-C40 Aliphatics	66.7	37.0		mg/Kg		55	40 - 140
C16-C21 Aromatics	33.3	33.2		mg/Kg		99	40 - 140
C10-C12 Aromatics	20.0	14.5		mg/Kg		72	40 - 140
C12-C16 Aromatics	26.7	18.7		mg/Kg		70	40 - 140
C21-C36 Aromatic	53.3	33.7		mg/Kg		63	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*80*		*40 - 140*
2-Fluorobiphenyl	*83*		*40 - 140*
2-Bromonaphthalene	*84*		*40 - 140*
1-Chlorooctadecane	*73*		*40 - 140*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Lab Sample ID: LCSD 460-1024433/3-A
Matrix: Solid
Analysis Batch: 1024460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024433

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics			20.0	9.74		mg/Kg		49	40 - 140	1	25
C9-C12 Aliphatics			26.7	11.3		mg/Kg		42	40 - 140	0	25
C16-C21 Aliphatics			20.0	15.4		mg/Kg		77	40 - 140	6	25
C21-C40 Aliphatics			66.7	38.0		mg/Kg		57	40 - 140	3	25
C16-C21 Aromatics			33.3	27.6		mg/Kg		83	40 - 140	18	25
C10-C12 Aromatics			20.0	14.0		mg/Kg		70	40 - 140	4	25
C12-C16 Aromatics			26.7	18.8		mg/Kg		70	40 - 140	0	25
C21-C36 Aromatic			53.3	36.7		mg/Kg		69	40 - 140	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*83*		*40 - 140*
2-Fluorobiphenyl	*83*		*40 - 140*
2-Bromonaphthalene	*85*		*40 - 140*
1-Chlorooctadecane	*72*		*40 - 140*

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024460

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics	2.0	U H F1	20.1	7.06	H F1	mg/Kg	☼	35	40 - 140		
C9-C12 Aliphatics	3.0	U H F1	26.8	7.34	H F1	mg/Kg	☼	27	40 - 140		
C16-C21 Aliphatics	2.0	U H	20.1	11.2	H	mg/Kg	☼	56	40 - 140		
C21-C40 Aliphatics	7.0	U H F1	67.1	25.3	H F1	mg/Kg	☼	38	40 - 140		
C16-C21 Aromatics	5.0	U H	33.5	20.3	H	mg/Kg	☼	61	40 - 140		
C10-C12 Aromatics	2.6	H F1	20.1	11.0	H	mg/Kg	☼	42	40 - 140		
C12-C16 Aromatics	3.0	U H	26.8	14.2	H	mg/Kg	☼	53	40 - 140		
C21-C36 Aromatic	15	H F1	53.7	35.7	H F1	mg/Kg	☼	38	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*58*		*40 - 140*
2-Fluorobiphenyl	*76*		*40 - 140*
2-Bromonaphthalene	*79*		*40 - 140*
1-Chlorooctadecane	*57*		*40 - 140*

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024460

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.0	U H F1	20.1	6.27	H F1	mg/Kg	☼	31	40 - 140	12	25
C9-C12 Aliphatics	3.0	U H F1	26.8	6.50	H F1	mg/Kg	☼	24	40 - 140	12	25
C16-C21 Aliphatics	2.0	U H	20.1	9.22	H	mg/Kg	☼	46	40 - 140	19	25
C21-C40 Aliphatics	7.0	U H F1	67.0	20.3	H F1	mg/Kg	☼	30	40 - 140	22	25
C16-C21 Aromatics	5.0	U H	33.5	18.7	H	mg/Kg	☼	56	40 - 140	8	25
C10-C12 Aromatics	2.6	H F1	20.1	9.99	H F1	mg/Kg	☼	37	40 - 140	10	25
C12-C16 Aromatics	3.0	U H	26.8	13.0	H	mg/Kg	☼	49	40 - 140	9	25
C21-C36 Aromatic	15	H F1	53.6	36.5	H	mg/Kg	☼	40	40 - 140	2	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	*54*		*40 - 140*
2-Fluorobiphenyl	*87*		*40 - 140*
2-Bromonaphthalene	*88*		*40 - 140*
1-Chlorooctadecane	*49*		*40 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1018348/1-A
Matrix: Solid
Analysis Batch: 1018417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Antimony	0.15	U	1.0	0.15	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Barium	0.15	U	2.0	0.15	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Calcium	40.7	U	100	40.7	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Chromium	0.91	U	2.0	0.91	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Copper	0.37	U	2.0	0.37	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Iron	20.2	U	60.0	20.2	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Lead	0.20	U	0.60	0.20	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Magnesium	10.2	U	100	10.2	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Manganese	0.40	U	4.0	0.40	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Nickel	0.47	U	2.0	0.47	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Potassium	16.2	U	100	16.2	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Selenium	0.13	U	1.3	0.13	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Silver	0.089	U	0.40	0.089	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Sodium	45.7	U	100	45.7	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Thallium	0.041	U	0.40	0.041	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		01/28/25 06:35	01/28/25 13:00	1
Zinc	3.1	U	8.0	3.1	mg/Kg		01/28/25 06:35	01/28/25 13:00	1

Lab Sample ID: LCSSRM 460-1018348/2-A ^3
Matrix: Solid
Analysis Batch: 1018417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018348

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5940	5980		mg/Kg		100.7	46.1 - 153.9
Antimony	121	81.32		mg/Kg		67.2	0.1 - 200.8
Arsenic	242	259.1		mg/Kg		107.1	81.8 - 118.6
Barium	295	304.4		mg/Kg		103.2	81.7 - 118.3
Beryllium	160	176.4		mg/Kg		110.3	82.5 - 117.5
Cadmium	84.3	89.21		mg/Kg		105.8	82.2 - 117.8
Calcium	5270	5483		mg/Kg		104.0	82.5 - 117.5

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-1018348/2-A ^3
Matrix: Solid
Analysis Batch: 1018417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018348

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	213	232.5		mg/Kg		109.2	81.2 - 119.2
Cobalt	137	147.8		mg/Kg		107.9	83.2 - 117.5
Copper	195	211.8		mg/Kg		108.6	83.1 - 116.9
Iron	6650	6994		mg/Kg		105.2	58.6 - 141.5
Lead	194	211.4		mg/Kg		109.0	82.0 - 118.6
Magnesium	1860	1952		mg/Kg		104.9	75.3 - 124.2
Manganese	264	269.0		mg/Kg		101.9	80.7 - 118.9
Nickel	298	321.6		mg/Kg		107.9	82.2 - 117.8
Potassium	2010	2096		mg/Kg		104.3	70.6 - 129.4
Selenium	272	296.4		mg/Kg		109.0	80.1 - 119.5
Silver	76.7	82.03		mg/Kg		107.0	79.5 - 120.5
Sodium	406	446.2		mg/Kg		109.9	74.9 - 124.9
Thallium	108	125.4		mg/Kg		116.1	80.0 - 119.4
Vanadium	169	179.1		mg/Kg		106.0	78.1 - 122.5
Zinc	236	247.1		mg/Kg		104.7	80.1 - 120.3

Lab Sample ID: 460-318906-E-1-C MS
Matrix: Solid
Analysis Batch: 1018417

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	4280		512	6223	4	mg/Kg	☼	380	75 - 125
Antimony	0.36	J F1	5.12	3.03	F1	mg/Kg	☼	52	75 - 125
Arsenic	9.1		10.2	19.48		mg/Kg	☼	101	75 - 125
Barium	56.0		10.2	67.59	4	mg/Kg	☼	114	75 - 125
Beryllium	0.43		5.12	5.28		mg/Kg	☼	95	75 - 125
Cadmium	0.38	J	5.12	4.90		mg/Kg	☼	88	75 - 125
Calcium	1470		512	2056		mg/Kg	☼	114	75 - 125
Chromium	27.0	F1	10.2	44.39	F1	mg/Kg	☼	170	75 - 125
Cobalt	3.5		5.12	9.24		mg/Kg	☼	113	75 - 125
Copper	113		10.2	73.93	4	mg/Kg	☼	-386	75 - 125
Iron	14200		512	20250	4	mg/Kg	☼	1177	75 - 125
Lead	67.2		5.12	91.15	4	mg/Kg	☼	468	75 - 125
Magnesium	835	F1	512	1618	F1	mg/Kg	☼	153	75 - 125
Manganese	64.5	F1	51.2	139.5	F1	mg/Kg	☼	147	75 - 125
Nickel	6.3	F1	10.2	20.74	F1	mg/Kg	☼	141	75 - 125
Potassium	1460	F1	512	2670	F1	mg/Kg	☼	236	75 - 125
Selenium	0.30	J	10.2	9.19		mg/Kg	☼	87	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-318906-E-1-C MS
Matrix: Solid
Analysis Batch: 1018417

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.17	J	5.12	4.81		mg/Kg	☼	91	75 - 125
Sodium	98.5	J	512	578.7		mg/Kg	☼	94	75 - 125
Thallium	0.046	J	4.09	3.75		mg/Kg	☼	91	75 - 125
Vanadium	15.3		10.2	27.27		mg/Kg	☼	117	75 - 125
Zinc	88.8		51.2	152.6		mg/Kg	☼	125	75 - 125

Lab Sample ID: 460-318906-E-1-B DU
Matrix: Solid
Analysis Batch: 1018417

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018348

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	4280		4705		mg/Kg	☼	10	20
Antimony	0.36	J F1	0.395	J	mg/Kg	☼	10	20
Arsenic	9.1		9.56		mg/Kg	☼	5	20
Barium	56.0		61.84		mg/Kg	☼	10	20
Beryllium	0.43		0.467		mg/Kg	☼	8	20
Cadmium	0.38	J	0.444	J	mg/Kg	☼	15	20
Calcium	1470		1485		mg/Kg	☼	1	20
Chromium	27.0	F1	30.94		mg/Kg	☼	14	20
Cobalt	3.5		3.87		mg/Kg	☼	11	20
Copper	113		105.1		mg/Kg	☼	8	20
Iron	14200		15120		mg/Kg	☼	6	20
Lead	67.2		71.82		mg/Kg	☼	7	20
Magnesium	835	F1	940.0		mg/Kg	☼	12	20
Manganese	64.5	F1	70.74		mg/Kg	☼	9	20
Nickel	6.3	F1	6.83		mg/Kg	☼	8	20
Potassium	1460	F1	1642		mg/Kg	☼	12	20
Selenium	0.30	J	0.352	J	mg/Kg	☼	17	20
Silver	0.17	J	0.181	J	mg/Kg	☼	5	20
Sodium	98.5	J	109.0		mg/Kg	☼	10	20
Thallium	0.046	J	0.0492	J	mg/Kg	☼	6	20
Vanadium	15.3		16.63		mg/Kg	☼	9	20
Zinc	88.8		100.7		mg/Kg	☼	13	20

Lab Sample ID: MB 460-1018393/1-A
Matrix: Water
Analysis Batch: 1018426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		01/28/25 10:44	01/28/25 15:54	1
Antimony	0.76	U	2.0	0.76	ug/L		01/28/25 10:44	01/28/25 15:54	1
Arsenic	0.89	U	2.0	0.89	ug/L		01/28/25 10:44	01/28/25 15:54	1
Barium	0.91	U	4.0	0.91	ug/L		01/28/25 10:44	01/28/25 15:54	1
Beryllium	0.13	U	0.80	0.13	ug/L		01/28/25 10:44	01/28/25 15:54	1
Cadmium	0.39	U	2.0	0.39	ug/L		01/28/25 10:44	01/28/25 15:54	1
Calcium	53.6	U	500	53.6	ug/L		01/28/25 10:44	01/28/25 15:54	1
Chromium	2.5	U	4.0	2.5	ug/L		01/28/25 10:44	01/28/25 15:54	1
Cobalt	0.71	U	4.0	0.71	ug/L		01/28/25 10:44	01/28/25 15:54	1
Copper	2.5	U	4.0	2.5	ug/L		01/28/25 10:44	01/28/25 15:54	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1018393/1-A
Matrix: Water
Analysis Batch: 1018426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	58.2	U	120	58.2	ug/L		01/28/25 10:44	01/28/25 15:54	1
Lead	0.84	U	1.2	0.84	ug/L		01/28/25 10:44	01/28/25 15:54	1
Magnesium	46.9	U	200	46.9	ug/L		01/28/25 10:44	01/28/25 15:54	1
Manganese	1.5	U	8.0	1.5	ug/L		01/28/25 10:44	01/28/25 15:54	1
Nickel	0.91	U	4.0	0.91	ug/L		01/28/25 10:44	01/28/25 15:54	1
Potassium	112	U	200	112	ug/L		01/28/25 10:44	01/28/25 15:54	1
Selenium	0.59	U	2.5	0.59	ug/L		01/28/25 10:44	01/28/25 15:54	1
Silver	0.29	U	2.0	0.29	ug/L		01/28/25 10:44	01/28/25 15:54	1
Sodium	219	U	500	219	ug/L		01/28/25 10:44	01/28/25 15:54	1
Thallium	0.21	U	0.80	0.21	ug/L		01/28/25 10:44	01/28/25 15:54	1
Vanadium	0.68	U	4.0	0.68	ug/L		01/28/25 10:44	01/28/25 15:54	1
Zinc	6.5	U	16.0	6.5	ug/L		01/28/25 10:44	01/28/25 15:54	1

Lab Sample ID: LCS 460-1018393/2-A
Matrix: Water
Analysis Batch: 1018426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2516		ug/L		101	80 - 120
Antimony	25.0	25.56		ug/L		102	80 - 120
Arsenic	50.0	52.55		ug/L		105	80 - 120
Barium	50.0	51.74		ug/L		103	80 - 120
Beryllium	25.0	24.97		ug/L		100	80 - 120
Cadmium	25.0	24.98		ug/L		100	80 - 120
Calcium	2500	2609		ug/L		104	80 - 120
Chromium	50.0	52.18		ug/L		104	80 - 120
Cobalt	25.0	26.52		ug/L		106	80 - 120
Copper	50.0	53.49		ug/L		107	80 - 120
Iron	2500	2666		ug/L		107	80 - 120
Lead	25.0	25.76		ug/L		103	80 - 120
Magnesium	2500	2580		ug/L		103	80 - 120
Manganese	250	262.9		ug/L		105	80 - 120
Nickel	50.0	52.80		ug/L		106	80 - 120
Potassium	2500	2535		ug/L		101	80 - 120
Selenium	50.0	50.12		ug/L		100	80 - 120
Silver	25.0	25.31		ug/L		101	80 - 120
Sodium	2500	2651		ug/L		106	80 - 120
Thallium	20.0	19.99		ug/L		100	80 - 120
Vanadium	50.0	52.57		ug/L		105	80 - 120
Zinc	250	253.9		ug/L		102	80 - 120

Lab Sample ID: 460-319272-E-4-C MS
Matrix: Water
Analysis Batch: 1018426

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	3150	F1	2500	4883	F1	ug/L		69	75 - 125
Antimony	0.76	U	25.0	26.24		ug/L		105	75 - 125
Arsenic	10.9		50.0	62.06		ug/L		102	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319272-E-4-C MS
Matrix: Water
Analysis Batch: 1018426

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	76.8		50.0	126.9		ug/L		100	75 - 125
Beryllium	0.20	J	25.0	26.56		ug/L		105	75 - 125
Cadmium	1.0	J	25.0	26.40		ug/L		102	75 - 125
Calcium	89600		2500	89760	4	ug/L		6	75 - 125
Chromium	6.5		50.0	56.61		ug/L		100	75 - 125
Cobalt	22.4		25.0	48.52		ug/L		105	75 - 125
Copper	8.6		50.0	61.24		ug/L		105	75 - 125
Iron	22500		2500	24510	4	ug/L		82	75 - 125
Lead	2.8		25.0	29.20		ug/L		105	75 - 125
Magnesium	42500		2500	44950	4	ug/L		97	75 - 125
Manganese	16400		250	16570	4	ug/L		76	75 - 125
Nickel	11.6		50.0	61.95		ug/L		101	75 - 125
Potassium	1760		2500	3902		ug/L		86	75 - 125
Selenium	0.59	U	50.0	54.07		ug/L		108	75 - 125
Silver	0.29	U	25.0	25.88		ug/L		104	75 - 125
Sodium	105000		2500	109000	4	ug/L		155	75 - 125
Thallium	0.21	U F1	20.0	12.30	F1	ug/L		61	75 - 125
Vanadium	8.0		50.0	61.66		ug/L		107	75 - 125
Zinc	17.2		250	271.7		ug/L		102	75 - 125

Lab Sample ID: 460-319272-E-4-D MSD
Matrix: Water
Analysis Batch: 1018426

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	3150	F1	2500	5507		ug/L		94	75 - 125	12	20
Antimony	0.76	U	25.0	25.40		ug/L		102	75 - 125	3	20
Arsenic	10.9		50.0	59.15		ug/L		96	75 - 125	5	20
Barium	76.8		50.0	128.8		ug/L		104	75 - 125	1	20
Beryllium	0.20	J	25.0	26.09		ug/L		104	75 - 125	2	20
Cadmium	1.0	J	25.0	25.49		ug/L		98	75 - 125	3	20
Calcium	89600		2500	85550	4	ug/L		-162	75 - 125	5	20
Chromium	6.5		50.0	56.23		ug/L		99	75 - 125	1	20
Cobalt	22.4		25.0	48.58		ug/L		105	75 - 125	0	20
Copper	8.6		50.0	60.84		ug/L		104	75 - 125	1	20
Iron	22500		2500	24170	4	ug/L		69	75 - 125	1	20
Lead	2.8		25.0	29.12		ug/L		105	75 - 125	0	20
Magnesium	42500		2500	44560	4	ug/L		81	75 - 125	1	20
Manganese	16400		250	16380	4	ug/L		-0.9	75 - 125	1	20
Nickel	11.6		50.0	61.27		ug/L		99	75 - 125	1	20
Potassium	1760		2500	4010		ug/L		90	75 - 125	3	20
Selenium	0.59	U	50.0	49.14		ug/L		98	75 - 125	10	20
Silver	0.29	U	25.0	25.11		ug/L		100	75 - 125	3	20
Sodium	105000		2500	104700	4	ug/L		-17	75 - 125	4	20
Thallium	0.21	U F1	20.0	11.66	F1	ug/L		58	75 - 125	5	20
Vanadium	8.0		50.0	61.17		ug/L		106	75 - 125	1	20
Zinc	17.2		250	271.9		ug/L		102	75 - 125	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319272-E-4-B DU
Matrix: Water
Analysis Batch: 1018426

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018393

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	3150	F1		2380	F3	ug/L				28	20
Antimony	0.76	U		0.76	U	ug/L				NC	20
Arsenic	10.9			10.48		ug/L				4	20
Barium	76.8			76.16		ug/L				0.8	20
Beryllium	0.20	J		0.155	J F5	ug/L				27	20
Cadmium	1.0	J		0.899	J	ug/L				10	20
Calcium	89600			88700		ug/L				1	20
Chromium	6.5			6.23		ug/L				4	20
Cobalt	22.4			22.31		ug/L				0.3	20
Copper	8.6			9.06		ug/L				5	20
Iron	22500			22520		ug/L				0.3	20
Lead	2.8			2.83		ug/L				0	20
Magnesium	42500			43680		ug/L				3	20
Manganese	16400			16790		ug/L				2	20
Nickel	11.6			11.03		ug/L				5	20
Potassium	1760			1560		ug/L				12	20
Selenium	0.59	U		0.59	U	ug/L				NC	20
Silver	0.29	U		0.29	U	ug/L				NC	20
Sodium	105000			105200		ug/L				0.09	20
Thallium	0.21	U F1		0.21	U	ug/L				NC	20
Vanadium	8.0			6.69		ug/L				18	20
Zinc	17.2			44.05	F3	ug/L				88	20

Lab Sample ID: MB 460-1024132/1-A
Matrix: Solid
Analysis Batch: 1024256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Antimony	0.15	U	1.0	0.15	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Barium	0.15	U	2.0	0.15	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Calcium	40.7	U	100	40.7	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Chromium	0.91	U	2.0	0.91	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Copper	0.37	U	2.0	0.37	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Iron	20.2	U	60.0	20.2	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Lead	0.20	U	0.60	0.20	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Magnesium	10.2	U	100	10.2	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Manganese	0.40	U	4.0	0.40	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Nickel	0.47	U	2.0	0.47	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Potassium	16.2	U	100	16.2	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Selenium	0.13	U	1.3	0.13	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Silver	0.089	U	0.40	0.089	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Sodium	45.7	U	100	45.7	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Thallium	0.041	U	0.40	0.041	mg/Kg		03/05/25 07:04	03/05/25 14:09	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		03/05/25 07:04	03/05/25 14:09	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1024132/1-A
Matrix: Solid
Analysis Batch: 1024256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	3.1	U	8.0	3.1	mg/Kg		03/05/25 07:04	03/05/25 14:09	1

Lab Sample ID: LCSSRM 460-1024132/2-A ^3
Matrix: Solid
Analysis Batch: 1024256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024132

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6840	6388		mg/Kg		93.4	53.2 - 146.2
Antimony	131	89.24		mg/Kg		68.1	4.5 - 195.4
Arsenic	192	184.1		mg/Kg		95.9	81.3 - 118.8
Barium	219	205.5		mg/Kg		93.8	81.7 - 118.3
Beryllium	146	145.6		mg/Kg		99.7	82.2 - 117.8
Cadmium	114	113.5		mg/Kg		99.5	81.7 - 118.4
Calcium	4080	4060		mg/Kg		99.5	82.4 - 117.6
Chromium	153	153.4		mg/Kg		100.3	81.0 - 119.0
Cobalt	231	236.2		mg/Kg		102.3	83.1 - 117.3
Copper	91.2	92.62		mg/Kg		101.6	83.1 - 117.3
Iron	7020	6371		mg/Kg		90.8	60.7 - 139.2
Lead	141	138.2		mg/Kg		98.0	81.6 - 118.4
Magnesium	1900	1883		mg/Kg		99.1	76.3 - 123.7
Manganese	401	389.3		mg/Kg		97.1	80.8 - 119.0
Nickel	143	150.2		mg/Kg		105.0	81.8 - 118.9
Potassium	1760	1662		mg/Kg		94.4	72.2 - 127.8
Selenium	94.7	94.67		mg/Kg		100	78.5 - 121.4
Silver	77.0	80.53		mg/Kg		104.6	79.4 - 120.6
Sodium	661	712.2		mg/Kg		107.7	73.7 - 126.2
Thallium	183	193.9		mg/Kg		106.0	80.3 - 119.7
Vanadium	159	154.9		mg/Kg		97.4	78.6 - 122.0
Zinc	292	297.8		mg/Kg		102.0	79.8 - 120.2

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024256

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	281		504	773.4		mg/Kg	☼	98	75 - 125
Antimony	0.22	J F1	5.04	3.75	F1	mg/Kg	☼	70	75 - 125
Arsenic	0.20	J F1	10.1	7.43	F1	mg/Kg	☼	72	75 - 125
Barium	3.5	F1	10.1	11.35		mg/Kg	☼	78	75 - 125
Beryllium	0.057	U	5.04	4.16		mg/Kg	☼	83	75 - 125
Cadmium	0.11	U	5.04	4.03		mg/Kg	☼	80	75 - 125
Calcium	388	F1	504	706.4	F1	mg/Kg	☼	63	75 - 125
Chromium	1.0	J	10.1	8.96		mg/Kg	☼	79	75 - 125
Cobalt	0.15	U	5.04	4.10		mg/Kg	☼	81	75 - 125
Copper	1.6	J	10.1	9.91		mg/Kg	☼	82	75 - 125
Iron	372	F1	504	730.1	F1	mg/Kg	☼	71	75 - 125
Lead	8.0	F1	5.04	11.46	F1	mg/Kg	☼	69	75 - 125
Magnesium	75.5	J	504	486.4		mg/Kg	☼	82	75 - 125
Manganese	11.5	F1	50.4	48.81	F1	mg/Kg	☼	74	75 - 125
Nickel	0.62	J	10.1	8.80		mg/Kg	☼	81	75 - 125
Potassium	41.0	J	504	452.6		mg/Kg	☼	82	75 - 125
Selenium	0.13	U F1	10.1	6.96	F1	mg/Kg	☼	69	75 - 125
Silver	0.090	U	5.04	4.22		mg/Kg	☼	84	75 - 125
Sodium	46.0	U	504	456.5		mg/Kg	☼	91	75 - 125
Thallium	0.041	U	4.03	3.44		mg/Kg	☼	85	75 - 125
Vanadium	1.4	J	10.1	9.56		mg/Kg	☼	81	75 - 125
Zinc	5.5	J	50.4	45.70		mg/Kg	☼	80	75 - 125

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024256

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	281		504	766.0		mg/Kg	☼	96	75 - 125	1	20
Antimony	0.22	J F1	5.04	3.82	F1	mg/Kg	☼	71	75 - 125	2	20
Arsenic	0.20	J F1	10.1	7.26	F1	mg/Kg	☼	70	75 - 125	2	20
Barium	3.5	F1	10.1	11.01	F1	mg/Kg	☼	74	75 - 125	3	20
Beryllium	0.057	U	5.04	4.03		mg/Kg	☼	80	75 - 125	3	20
Cadmium	0.11	U	5.04	4.05		mg/Kg	☼	80	75 - 125	0	20
Calcium	388	F1	504	730.3	F1	mg/Kg	☼	68	75 - 125	3	20
Chromium	1.0	J	10.1	8.89		mg/Kg	☼	78	75 - 125	1	20
Cobalt	0.15	U	5.04	4.07		mg/Kg	☼	81	75 - 125	1	20
Copper	1.6	J	10.1	9.51		mg/Kg	☼	78	75 - 125	4	20
Iron	372	F1	504	755.4		mg/Kg	☼	76	75 - 125	3	20
Lead	8.0	F1	5.04	11.02	F1	mg/Kg	☼	60	75 - 125	4	20
Magnesium	75.5	J	504	488.2		mg/Kg	☼	82	75 - 125	0	20
Manganese	11.5	F1	50.4	53.39		mg/Kg	☼	83	75 - 125	9	20
Nickel	0.62	J	10.1	8.64		mg/Kg	☼	80	75 - 125	2	20
Potassium	41.0	J	504	453.6		mg/Kg	☼	82	75 - 125	0	20
Selenium	0.13	U F1	10.1	7.28	F1	mg/Kg	☼	72	75 - 125	4	20
Silver	0.090	U	5.04	4.21		mg/Kg	☼	84	75 - 125	0	20
Sodium	46.0	U	504	453.2		mg/Kg	☼	90	75 - 125	1	20
Thallium	0.041	U	4.03	3.38		mg/Kg	☼	84	75 - 125	2	20
Vanadium	1.4	J	10.1	9.24		mg/Kg	☼	78	75 - 125	3	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024256

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	5.5	J	50.4	44.93		mg/Kg	☼	78	75 - 125	2	20

Lab Sample ID: 460-319229-11 DU
Matrix: Solid
Analysis Batch: 1024256

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024132

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	281		265.8		mg/Kg	☼	5	20
Antimony	0.22	J F1	0.244	J	mg/Kg	☼	11	20
Arsenic	0.20	J F1	0.182	J	mg/Kg	☼	12	20
Barium	3.5	F1	3.19		mg/Kg	☼	10	20
Beryllium	0.057	U	0.057	U	mg/Kg	☼	NC	20
Cadmium	0.11	U	0.11	U	mg/Kg	☼	NC	20
Calcium	388	F1	336.1		mg/Kg	☼	14	20
Chromium	1.0	J	1.03	J	mg/Kg	☼	3	20
Cobalt	0.15	U	0.15	U	mg/Kg	☼	NC	20
Copper	1.6	J	1.52	J	mg/Kg	☼	6	20
Iron	372	F1	365.6		mg/Kg	☼	2	20
Lead	8.0	F1	7.36		mg/Kg	☼	8	20
Magnesium	75.5	J	65.88	J	mg/Kg	☼	14	20
Manganese	11.5	F1	9.48		mg/Kg	☼	19	20
Nickel	0.62	J	0.537	J	mg/Kg	☼	14	20
Potassium	41.0	J	32.48	J F5	mg/Kg	☼	23	20
Selenium	0.13	U F1	0.13	U	mg/Kg	☼	NC	20
Silver	0.090	U	0.090	U	mg/Kg	☼	NC	20
Sodium	46.0	U	46.0	U	mg/Kg	☼	NC	20
Thallium	0.041	U	0.041	U	mg/Kg	☼	NC	20
Vanadium	1.4	J	1.42	J	mg/Kg	☼	3	20
Zinc	5.5	J	5.04	J	mg/Kg	☼	8	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-1018237/1-A
Matrix: Water
Analysis Batch: 1018264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/25 11:28	01/27/25 14:10	1

Lab Sample ID: LCS 460-1018237/2-A
Matrix: Water
Analysis Batch: 1018264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.04		ug/L		104	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 460-319201-C-1-D MS
Matrix: Water
Analysis Batch: 1018264

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.46		1.00	1.68		ug/L		122	75 - 125

Lab Sample ID: 460-319201-C-1-C DU
Matrix: Water
Analysis Batch: 1018264

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018237

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.46		0.452		ug/L		1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-1018162/1-A
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		01/27/25 01:29	01/27/25 06:10	1

Lab Sample ID: LCSSRM 460-1018162/2-A ^40
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018162

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	22.8	24.14		mg/Kg		105.9	70.6 - 129.4

Lab Sample ID: 460-319229-4 MS
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA
Prep Batch: 1018162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0083	J	0.0756	0.0894		mg/Kg	☼	107	80 - 120

Lab Sample ID: 460-319229-4 DU
Matrix: Solid
Analysis Batch: 1018211

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA
Prep Batch: 1018162

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0083	J	0.0102	J F5	mg/Kg	☼	21	20

Lab Sample ID: MB 460-1024584/10-A
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		03/07/25 00:47	03/07/25 04:17	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 460-1024584/11-A ^40
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024584

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			14.1	13.18		mg/Kg		93.5	69.6 - 130.5		

Lab Sample ID: 460-320857-D-7-F MS ^3
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	1.1		0.0817	0.573	4	mg/Kg	☼	-585	80 - 120		

Lab Sample ID: 460-320857-D-7-G MSD ^3
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.1		0.0817	0.571	4	mg/Kg	☼	-586	80 - 120	0	20

Lab Sample ID: 460-320857-D-7-E DU ^3
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1024584

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	1.1		1.05		mg/Kg	☼	0.2	20

Lab Sample ID: MB 460-1024585/1-A
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		03/07/25 01:02	03/07/25 05:05	1

Lab Sample ID: LCSSRM 460-1024585/2-A ^40
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024585

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			14.1	12.58		mg/Kg		89.2	69.6 - 130.5		

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.018	H	0.0812	0.106	H	mg/Kg	☼	108	80 - 120		

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.018	H	0.0812	0.103	H	mg/Kg	☼	105	80 - 120	2	20

Lab Sample ID: 460-319229-11 DU
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.018	H	0.0197		mg/Kg	☼	8	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-1018379/13-A
Matrix: Solid
Analysis Batch: 1018404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		01/28/25 09:12	01/28/25 12:19	1

Lab Sample ID: LCSSRM 460-1018379/14-A ^20
Matrix: Solid
Analysis Batch: 1018404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018379

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	159	102.7		mg/Kg		64.5	14.9 - 114.5

Lab Sample ID: 460-319175-E-5-V MS
Matrix: Solid
Analysis Batch: 1018404

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.13	U	5.11	4.11		mg/Kg	☼	81	29 - 100

Lab Sample ID: 460-319175-E-5-W MSD
Matrix: Solid
Analysis Batch: 1018404

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.13	U	5.30	4.29		mg/Kg	☼	81	29 - 100	4	40

Lab Sample ID: MB 460-1018545/13-A
Matrix: Water
Analysis Batch: 1018606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018545

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0040	U	0.010	0.0040	mg/L		01/29/25 09:16	01/29/25 12:29	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 460-1018545/14-A
Matrix: Water
Analysis Batch: 1018606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018545

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.100	0.0968		mg/L		97	85 - 115		

Lab Sample ID: 460-319207-E-4-B MS
Matrix: Water
Analysis Batch: 1018606

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.0040	U	0.200	0.197		mg/L		99	90 - 110		

Lab Sample ID: 460-319207-E-4-C MSD
Matrix: Water
Analysis Batch: 1018606

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018545

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0040	U	0.200	0.200		mg/L		100	90 - 110	2	35

Lab Sample ID: MB 460-1018548/1-A
Matrix: Solid
Analysis Batch: 1018606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		01/29/25 09:22	01/29/25 13:09	1

Lab Sample ID: LCSSRM 460-1018548/2-A ^20
Matrix: Solid
Analysis Batch: 1018606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018548

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			165	109.8		mg/Kg		66.4	14.9 - 114.5		

Lab Sample ID: 460-319229-13 MS
Matrix: Solid
Analysis Batch: 1018606

Client Sample ID: 4-02-TS
Prep Type: Total/NA
Prep Batch: 1018548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.11	U	4.41	4.28		mg/Kg	☼	97	29 - 100		

Lab Sample ID: 460-319229-13 MSD
Matrix: Solid
Analysis Batch: 1018606

Client Sample ID: 4-02-TS
Prep Type: Total/NA
Prep Batch: 1018548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.11	U	4.57	4.50		mg/Kg	☼	99	29 - 100	5	40

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: MB 460-1024738/1-A
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		03/07/25 18:23	03/09/25 15:48	1

Lab Sample ID: LCSSRM 460-1024738/2-A ^20
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024738

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			172	92.16		mg/Kg		53.6	14.9 - 114.5		

Lab Sample ID: 460-319229-11 MS
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.12	U H F2 F1	4.32	3.48	H	mg/Kg	☼	80	29 - 100		

Lab Sample ID: 460-319229-11 MSD
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: 3-01-TS
Prep Type: Total/NA
Prep Batch: 1024738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.12	U H F2 F1	4.32	0.294	H F1 F2	mg/Kg	☼	7	29 - 100	169	40

Lab Sample ID: MRL 460-1024952/12-A
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024952

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.0100	0.0103		mg/L		103	50 - 150		

Method: Moisture - Percent Moisture

Lab Sample ID: 460-319229-4 DU
Matrix: Solid
Analysis Batch: 1018207

Client Sample ID: 2B-06-CS-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.3			5.1	F3	%				121	20
Percent Solids	98.7			94.9		%				4	20

GC/MS VOA

Prep Batch: 1018032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	5035	
460-319229-4	2B-06-CS-4	Total/NA	Solid	5035	
460-319229-5	2B-06-CS-8	Total/NA	Solid	5035	
460-319229-6	3-02-TS	Total/NA	Solid	5035	
460-319229-7	DUP-03	Total/NA	Solid	5035	
460-319229-8	3-02-CS	Total/NA	Solid	5035	
460-319229-9	3-03-CS-4	Total/NA	Solid	5035	
460-319229-10	3-03-CS-8	Total/NA	Solid	5035	
460-319229-11	3-01-TS	Total/NA	Solid	5035	
460-319229-12	3-01-CS	Total/NA	Solid	5035	
460-319229-13	4-02-TS	Total/NA	Solid	5035	
460-319229-14	4-02-CS	Total/NA	Solid	5035	
460-319229-11 MS	3-01-TS	Total/NA	Solid	5035	
460-319229-11 MSD	3-01-TS	Total/NA	Solid	5035	

Analysis Batch: 1018189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-1	Trip Blank	Total/NA	Water	8260D	
460-319229-2	FB-20250123	Total/NA	Water	8260D	
MB 460-1018189/9	Method Blank	Total/NA	Water	8260D	
LCS 460-1018189/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1018189/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 1018422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	8260D	1018032
460-319229-4	2B-06-CS-4	Total/NA	Solid	8260D	1018032
460-319229-5	2B-06-CS-8	Total/NA	Solid	8260D	1018032
460-319229-9	3-03-CS-4	Total/NA	Solid	8260D	1018032
460-319229-10	3-03-CS-8	Total/NA	Solid	8260D	1018032
460-319229-13	4-02-TS	Total/NA	Solid	8260D	1018032
460-319229-14	4-02-CS	Total/NA	Solid	8260D	1018032
MB 460-1018422/10	Method Blank	Total/NA	Solid	8260D	
LCS 460-1018422/7	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1018422/8	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1024023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	8260D	1018032
460-319229-7	DUP-03	Total/NA	Solid	8260D	1018032
460-319229-8	3-02-CS	Total/NA	Solid	8260D	1018032
460-319229-11	3-01-TS	Total/NA	Solid	8260D	1018032
460-319229-12	3-01-CS	Total/NA	Solid	8260D	1018032
MB 460-1024023/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1024023/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1024023/3	Lab Control Sample Dup	Total/NA	Solid	8260D	
460-319229-11 MS	3-01-TS	Total/NA	Solid	8260D	1018032
460-319229-11 MSD	3-01-TS	Total/NA	Solid	8260D	1018032

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Prep Batch: 1018078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	3510C	
MB 460-1018078/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018078/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018078/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1018087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	8270E	1018078
MB 460-1018078/1-A	Method Blank	Total/NA	Water	8270E	1018078
LCS 460-1018078/2-A	Lab Control Sample	Total/NA	Water	8270E	1018078
LCSD 460-1018078/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1018078

Prep Batch: 1018240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	3546	
460-319229-4	2B-06-CS-4	Total/NA	Solid	3546	
460-319229-5	2B-06-CS-8	Total/NA	Solid	3546	
460-319229-9	3-03-CS-4	Total/NA	Solid	3546	
460-319229-10	3-03-CS-8	Total/NA	Solid	3546	
460-319229-13	4-02-TS	Total/NA	Solid	3546	
460-319229-14	4-02-CS	Total/NA	Solid	3546	
MB 460-1018240/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018240/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018240/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319229-4 MS	2B-06-CS-4	Total/NA	Solid	3546	
460-319229-4 MSD	2B-06-CS-4	Total/NA	Solid	3546	

Analysis Batch: 1018311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	8270E	1018240
460-319229-4	2B-06-CS-4	Total/NA	Solid	8270E	1018240
460-319229-5	2B-06-CS-8	Total/NA	Solid	8270E	1018240
460-319229-9	3-03-CS-4	Total/NA	Solid	8270E	1018240
460-319229-10	3-03-CS-8	Total/NA	Solid	8270E	1018240
460-319229-13	4-02-TS	Total/NA	Solid	8270E	1018240
460-319229-14	4-02-CS	Total/NA	Solid	8270E	1018240
MB 460-1018240/1-A	Method Blank	Total/NA	Solid	8270E	1018240
LCS 460-1018240/2-A	Lab Control Sample	Total/NA	Solid	8270E	1018240
LCSD 460-1018240/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1018240
460-319229-4 MS	2B-06-CS-4	Total/NA	Solid	8270E	1018240
460-319229-4 MSD	2B-06-CS-4	Total/NA	Solid	8270E	1018240

Prep Batch: 1023975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	3546	
460-319229-7	DUP-03	Total/NA	Solid	3546	
460-319229-8	3-02-CS	Total/NA	Solid	3546	
460-319229-11	3-01-TS	Total/NA	Solid	3546	
460-319229-12	3-01-CS	Total/NA	Solid	3546	
MB 460-1023975/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1023975/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 1023975 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-1023975/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319229-11 MS	3-01-TS	Total/NA	Solid	3546	
460-319229-11 MSD	3-01-TS	Total/NA	Solid	3546	

Analysis Batch: 1023993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	8270E	1023975
460-319229-7	DUP-03	Total/NA	Solid	8270E	1023975
460-319229-8	3-02-CS	Total/NA	Solid	8270E	1023975
460-319229-11	3-01-TS	Total/NA	Solid	8270E	1023975
460-319229-12	3-01-CS	Total/NA	Solid	8270E	1023975
MB 460-1023975/1-A	Method Blank	Total/NA	Solid	8270E	1023975
LCS 460-1023975/2-A	Lab Control Sample	Total/NA	Solid	8270E	1023975
LCSD 460-1023975/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1023975
460-319229-11 MS	3-01-TS	Total/NA	Solid	8270E	1023975
460-319229-11 MSD	3-01-TS	Total/NA	Solid	8270E	1023975

GC Semi VOA

Prep Batch: 1018029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	3510C	
MB 460-1018029/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018029/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018029/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 1018033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	3510C	
MB 460-1018033/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018033/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018033/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 1018037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	3510C	
MB 460-1018037/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018037/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018037/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1018053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	NJDEP EPH	1018029
MB 460-1018029/1-A	Method Blank	Total/NA	Water	NJDEP EPH	1018029
LCS 460-1018029/2-A	Lab Control Sample	Total/NA	Water	NJDEP EPH	1018029
LCSD 460-1018029/3-A	Lab Control Sample Dup	Total/NA	Water	NJDEP EPH	1018029

Prep Batch: 1018104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	3546	
460-319229-4	2B-06-CS-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 1018104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-5	2B-06-CS-8	Total/NA	Solid	3546	
460-319229-9	3-03-CS-4	Total/NA	Solid	3546	
460-319229-10	3-03-CS-8	Total/NA	Solid	3546	
460-319229-13	4-02-TS	Total/NA	Solid	3546	
460-319229-14	4-02-CS	Total/NA	Solid	3546	
MB 460-1018104/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018104/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018104/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319135-G-15-J MS	Matrix Spike	Total/NA	Solid	3546	
460-319135-G-15-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 1018105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	3546	
460-319229-4	2B-06-CS-4	Total/NA	Solid	3546	
460-319229-5	2B-06-CS-8	Total/NA	Solid	3546	
460-319229-9	3-03-CS-4	Total/NA	Solid	3546	
460-319229-10	3-03-CS-8	Total/NA	Solid	3546	
460-319229-13	4-02-TS	Total/NA	Solid	3546	
460-319229-14	4-02-CS	Total/NA	Solid	3546	
MB 460-1018105/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018105/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018105/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319135-G-15-M MS	Matrix Spike	Total/NA	Solid	3546	
460-319135-G-15-N MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1018163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	8081B	1018105
460-319229-4	2B-06-CS-4	Total/NA	Solid	8081B	1018105
460-319229-5	2B-06-CS-8	Total/NA	Solid	8081B	1018105
460-319229-9	3-03-CS-4	Total/NA	Solid	8081B	1018105
460-319229-10	3-03-CS-8	Total/NA	Solid	8081B	1018105
460-319229-13	4-02-TS	Total/NA	Solid	8081B	1018105
460-319229-14	4-02-CS	Total/NA	Solid	8081B	1018105
MB 460-1018105/1-A	Method Blank	Total/NA	Solid	8081B	1018105
LCS 460-1018105/2-A	Lab Control Sample	Total/NA	Solid	8081B	1018105
LCSD 460-1018105/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1018105
460-319135-G-15-M MS	Matrix Spike	Total/NA	Solid	8081B	1018105
460-319135-G-15-N MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	1018105

Analysis Batch: 1018166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	8081B	1018037
MB 460-1018037/1-A	Method Blank	Total/NA	Water	8081B	1018037
LCS 460-1018037/2-A	Lab Control Sample	Total/NA	Water	8081B	1018037
LCSD 460-1018037/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	1018037

Analysis Batch: 1018184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	8082A	1018104

GC Semi VOA (Continued)

Analysis Batch: 1018184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-4	2B-06-CS-4	Total/NA	Solid	8082A	1018104
460-319229-5	2B-06-CS-8	Total/NA	Solid	8082A	1018104
460-319229-9	3-03-CS-4	Total/NA	Solid	8082A	1018104
460-319229-10	3-03-CS-8	Total/NA	Solid	8082A	1018104
460-319229-13	4-02-TS	Total/NA	Solid	8082A	1018104
460-319229-14	4-02-CS	Total/NA	Solid	8082A	1018104
MB 460-1018104/1-A	Method Blank	Total/NA	Solid	8082A	1018104
LCS 460-1018104/2-A	Lab Control Sample	Total/NA	Solid	8082A	1018104
LCSD 460-1018104/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1018104
460-319135-G-15-J MS	Matrix Spike	Total/NA	Solid	8082A	1018104
460-319135-G-15-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	1018104

Analysis Batch: 1018186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	8082A	1018033
MB 460-1018033/1-A	Method Blank	Total/NA	Water	8082A	1018033
LCS 460-1018033/2-A	Lab Control Sample	Total/NA	Water	8082A	1018033
LCSD 460-1018033/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	1018033

Prep Batch: 1018231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	3546	
460-319229-4	2B-06-CS-4	Total/NA	Solid	3546	
460-319229-5	2B-06-CS-8	Total/NA	Solid	3546	
460-319229-9	3-03-CS-4	Total/NA	Solid	3546	
460-319229-10	3-03-CS-8	Total/NA	Solid	3546	
460-319229-13	4-02-TS	Total/NA	Solid	3546	
460-319229-14	4-02-CS	Total/NA	Solid	3546	
MB 460-1018231/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018231/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018231/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
180-185371-D-5-K MS	Matrix Spike	Total/NA	Solid	3546	
180-185371-D-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1018367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	NJDEP EPH	1018231
460-319229-4	2B-06-CS-4	Total/NA	Solid	NJDEP EPH	1018231
460-319229-5	2B-06-CS-8	Total/NA	Solid	NJDEP EPH	1018231
460-319229-9	3-03-CS-4	Total/NA	Solid	NJDEP EPH	1018231
460-319229-10	3-03-CS-8	Total/NA	Solid	NJDEP EPH	1018231
460-319229-13	4-02-TS	Total/NA	Solid	NJDEP EPH	1018231
460-319229-14	4-02-CS	Total/NA	Solid	NJDEP EPH	1018231
MB 460-1018231/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1018231
LCS 460-1018231/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1018231
LCSD 460-1018231/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1018231
180-185371-D-5-K MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1018231
180-185371-D-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1018231

GC Semi VOA

Analysis Batch: 1018368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	NJDEP EPH	1018231
460-319229-4	2B-06-CS-4	Total/NA	Solid	NJDEP EPH	1018231
460-319229-5	2B-06-CS-8	Total/NA	Solid	NJDEP EPH	1018231
460-319229-9	3-03-CS-4	Total/NA	Solid	NJDEP EPH	1018231
460-319229-10	3-03-CS-8	Total/NA	Solid	NJDEP EPH	1018231
460-319229-13	4-02-TS	Total/NA	Solid	NJDEP EPH	1018231
460-319229-14	4-02-CS	Total/NA	Solid	NJDEP EPH	1018231
MB 460-1018231/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1018231
LCS 460-1018231/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1018231
LCSD 460-1018231/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1018231
180-185371-D-5-K MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1018231
180-185371-D-5-L MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1018231

Analysis Batch: 1018401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	NJ DEP EPH	
460-319229-4	2B-06-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319229-5	2B-06-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319229-9	3-03-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319229-10	3-03-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319229-13	4-02-TS	Total/NA	Solid	NJ DEP EPH	
460-319229-14	4-02-CS	Total/NA	Solid	NJ DEP EPH	

Prep Batch: 1024267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	3546	
460-319229-7	DUP-03	Total/NA	Solid	3546	
460-319229-8	3-02-CS	Total/NA	Solid	3546	
460-319229-11	3-01-TS	Total/NA	Solid	3546	
460-319229-12	3-01-CS	Total/NA	Solid	3546	
MB 460-1024267/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024267/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024267/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319229-11 MS	3-01-TS	Total/NA	Solid	3546	
460-319229-11 MSD	3-01-TS	Total/NA	Solid	3546	

Prep Batch: 1024269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	3546	
460-319229-7	DUP-03	Total/NA	Solid	3546	
460-319229-8	3-02-CS	Total/NA	Solid	3546	
460-319229-11	3-01-TS	Total/NA	Solid	3546	
460-319229-12	3-01-CS	Total/NA	Solid	3546	
MB 460-1024269/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024269/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024269/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319229-11 MS	3-01-TS	Total/NA	Solid	3546	
460-319229-11 MSD	3-01-TS	Total/NA	Solid	3546	

GC Semi VOA

Analysis Batch: 1024333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	8081B	1024269
460-319229-7	DUP-03	Total/NA	Solid	8081B	1024269
460-319229-8	3-02-CS	Total/NA	Solid	8081B	1024269
460-319229-11	3-01-TS	Total/NA	Solid	8081B	1024269
460-319229-12	3-01-CS	Total/NA	Solid	8081B	1024269
MB 460-1024269/1-A	Method Blank	Total/NA	Solid	8081B	1024269
LCS 460-1024269/2-A	Lab Control Sample	Total/NA	Solid	8081B	1024269
LCSD 460-1024269/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1024269
460-319229-11 MS	3-01-TS	Total/NA	Solid	8081B	1024269
460-319229-11 MSD	3-01-TS	Total/NA	Solid	8081B	1024269

Analysis Batch: 1024358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	8082A	1024267
460-319229-7	DUP-03	Total/NA	Solid	8082A	1024267
460-319229-8	3-02-CS	Total/NA	Solid	8082A	1024267
460-319229-11	3-01-TS	Total/NA	Solid	8082A	1024267
460-319229-12	3-01-CS	Total/NA	Solid	8082A	1024267
MB 460-1024267/1-A	Method Blank	Total/NA	Solid	8082A	1024267
LCS 460-1024267/2-A	Lab Control Sample	Total/NA	Solid	8082A	1024267
LCSD 460-1024267/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1024267
460-319229-11 MS	3-01-TS	Total/NA	Solid	8082A	1024267
460-319229-11 MSD	3-01-TS	Total/NA	Solid	8082A	1024267

Prep Batch: 1024433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	3546	
460-319229-7	DUP-03	Total/NA	Solid	3546	
460-319229-8	3-02-CS	Total/NA	Solid	3546	
460-319229-11	3-01-TS	Total/NA	Solid	3546	
460-319229-12	3-01-CS	Total/NA	Solid	3546	
MB 460-1024433/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024433/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024433/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319229-11 MS	3-01-TS	Total/NA	Solid	3546	
460-319229-11 MSD	3-01-TS	Total/NA	Solid	3546	

Analysis Batch: 1024460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319229-7	DUP-03	Total/NA	Solid	NJDEP EPH	1024433
460-319229-8	3-02-CS	Total/NA	Solid	NJDEP EPH	1024433
460-319229-11	3-01-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319229-12	3-01-CS	Total/NA	Solid	NJDEP EPH	1024433
MB 460-1024433/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024433
LCS 460-1024433/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024433
LCSD 460-1024433/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024433
460-319229-11 MS	3-01-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319229-11 MSD	3-01-TS	Total/NA	Solid	NJDEP EPH	1024433

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

GC Semi VOA

Analysis Batch: 1024461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319229-7	DUP-03	Total/NA	Solid	NJDEP EPH	1024433
460-319229-8	3-02-CS	Total/NA	Solid	NJDEP EPH	1024433
460-319229-11	3-01-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319229-12	3-01-CS	Total/NA	Solid	NJDEP EPH	1024433
MB 460-1024433/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024433
LCS 460-1024433/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024433
LCSD 460-1024433/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024433
460-319229-11 MS	3-01-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319229-11 MSD	3-01-TS	Total/NA	Solid	NJDEP EPH	1024433

Analysis Batch: 1024694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	NJ DEP EPH	
460-319229-7	DUP-03	Total/NA	Solid	NJ DEP EPH	
460-319229-8	3-02-CS	Total/NA	Solid	NJ DEP EPH	
460-319229-11	3-01-TS	Total/NA	Solid	NJ DEP EPH	
460-319229-12	3-01-CS	Total/NA	Solid	NJ DEP EPH	

Metals

Prep Batch: 1018162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	7471B	
460-319229-4	2B-06-CS-4	Total/NA	Solid	7471B	
460-319229-5	2B-06-CS-8	Total/NA	Solid	7471B	
460-319229-9	3-03-CS-4	Total/NA	Solid	7471B	
460-319229-10	3-03-CS-8	Total/NA	Solid	7471B	
460-319229-13	4-02-TS	Total/NA	Solid	7471B	
460-319229-14	4-02-CS	Total/NA	Solid	7471B	
MB 460-1018162/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1018162/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319229-4 MS	2B-06-CS-4	Total/NA	Solid	7471B	
460-319229-4 DU	2B-06-CS-4	Total/NA	Solid	7471B	

Analysis Batch: 1018211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	7471B	1018162
460-319229-4	2B-06-CS-4	Total/NA	Solid	7471B	1018162
460-319229-5	2B-06-CS-8	Total/NA	Solid	7471B	1018162
460-319229-9	3-03-CS-4	Total/NA	Solid	7471B	1018162
460-319229-10	3-03-CS-8	Total/NA	Solid	7471B	1018162
460-319229-13	4-02-TS	Total/NA	Solid	7471B	1018162
460-319229-14	4-02-CS	Total/NA	Solid	7471B	1018162
MB 460-1018162/1-A	Method Blank	Total/NA	Solid	7471B	1018162
LCSSRM 460-1018162/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1018162
460-319229-4 MS	2B-06-CS-4	Total/NA	Solid	7471B	1018162
460-319229-4 DU	2B-06-CS-4	Total/NA	Solid	7471B	1018162

Metals

Prep Batch: 1018237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	7470A	
MB 460-1018237/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1018237/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-319201-C-1-D MS	Matrix Spike	Total/NA	Water	7470A	
460-319201-C-1-C DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 1018264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	7470A	1018237
MB 460-1018237/1-A	Method Blank	Total/NA	Water	7470A	1018237
LCS 460-1018237/2-A	Lab Control Sample	Total/NA	Water	7470A	1018237
460-319201-C-1-D MS	Matrix Spike	Total/NA	Water	7470A	1018237
460-319201-C-1-C DU	Duplicate	Total/NA	Water	7470A	1018237

Prep Batch: 1018348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	3050B	
460-319229-4	2B-06-CS-4	Total/NA	Solid	3050B	
460-319229-5	2B-06-CS-8	Total/NA	Solid	3050B	
460-319229-9	3-03-CS-4	Total/NA	Solid	3050B	
460-319229-10	3-03-CS-8	Total/NA	Solid	3050B	
460-319229-13	4-02-TS	Total/NA	Solid	3050B	
460-319229-14	4-02-CS	Total/NA	Solid	3050B	
MB 460-1018348/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1018348/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-318906-E-1-C MS	Matrix Spike	Total/NA	Solid	3050B	
460-318906-E-1-B DU	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 1018393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	3010A	
MB 460-1018393/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-1018393/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-319272-E-4-C MS	Matrix Spike	Total/NA	Water	3010A	
460-319272-E-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
460-319272-E-4-B DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 1018417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	6020B	1018348
460-319229-4	2B-06-CS-4	Total/NA	Solid	6020B	1018348
460-319229-5	2B-06-CS-8	Total/NA	Solid	6020B	1018348
460-319229-9	3-03-CS-4	Total/NA	Solid	6020B	1018348
460-319229-10	3-03-CS-8	Total/NA	Solid	6020B	1018348
460-319229-13	4-02-TS	Total/NA	Solid	6020B	1018348
460-319229-14	4-02-CS	Total/NA	Solid	6020B	1018348
MB 460-1018348/1-A	Method Blank	Total/NA	Solid	6020B	1018348
LCSSRM 460-1018348/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1018348
460-318906-E-1-C MS	Matrix Spike	Total/NA	Solid	6020B	1018348
460-318906-E-1-B DU	Duplicate	Total/NA	Solid	6020B	1018348

Metals

Analysis Batch: 1018426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	6020B	1018393
MB 460-1018393/1-A	Method Blank	Total/NA	Water	6020B	1018393
LCS 460-1018393/2-A	Lab Control Sample	Total/NA	Water	6020B	1018393
460-319272-E-4-C MS	Matrix Spike	Total/NA	Water	6020B	1018393
460-319272-E-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	6020B	1018393
460-319272-E-4-B DU	Duplicate	Total/NA	Water	6020B	1018393

Prep Batch: 1024132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	3050B	
460-319229-7	DUP-03	Total/NA	Solid	3050B	
460-319229-8	3-02-CS	Total/NA	Solid	3050B	
460-319229-11	3-01-TS	Total/NA	Solid	3050B	
460-319229-12	3-01-CS	Total/NA	Solid	3050B	
MB 460-1024132/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1024132/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319229-11 MS	3-01-TS	Total/NA	Solid	3050B	
460-319229-11 MSD	3-01-TS	Total/NA	Solid	3050B	
460-319229-11 DU	3-01-TS	Total/NA	Solid	3050B	

Analysis Batch: 1024256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	6020B	1024132
460-319229-7	DUP-03	Total/NA	Solid	6020B	1024132
460-319229-8	3-02-CS	Total/NA	Solid	6020B	1024132
460-319229-11	3-01-TS	Total/NA	Solid	6020B	1024132
460-319229-12	3-01-CS	Total/NA	Solid	6020B	1024132
MB 460-1024132/1-A	Method Blank	Total/NA	Solid	6020B	1024132
LCSSRM 460-1024132/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1024132
460-319229-11 MS	3-01-TS	Total/NA	Solid	6020B	1024132
460-319229-11 MSD	3-01-TS	Total/NA	Solid	6020B	1024132
460-319229-11 DU	3-01-TS	Total/NA	Solid	6020B	1024132

Prep Batch: 1024584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	7471B	
460-319229-7	DUP-03	Total/NA	Solid	7471B	
460-319229-8	3-02-CS	Total/NA	Solid	7471B	
MB 460-1024584/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1024584/11-A	Lab Control Sample	Total/NA	Solid	7471B	
460-320857-D-7-F MS ^3	Matrix Spike	Total/NA	Solid	7471B	
460-320857-D-7-G MSD ^3	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-320857-D-7-E DU ^3	Duplicate	Total/NA	Solid	7471B	

Prep Batch: 1024585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-11	3-01-TS	Total/NA	Solid	7471B	
460-319229-12	3-01-CS	Total/NA	Solid	7471B	
MB 460-1024585/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1024585/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319229-11 MS	3-01-TS	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 1024585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-11 MSD	3-01-TS	Total/NA	Solid	7471B	
460-319229-11 DU	3-01-TS	Total/NA	Solid	7471B	

Analysis Batch: 1024639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	7471B	1024584
460-319229-7	DUP-03	Total/NA	Solid	7471B	1024584
460-319229-8	3-02-CS	Total/NA	Solid	7471B	1024584
460-319229-11	3-01-TS	Total/NA	Solid	7471B	1024585
460-319229-12	3-01-CS	Total/NA	Solid	7471B	1024585
MB 460-1024584/10-A	Method Blank	Total/NA	Solid	7471B	1024584
MB 460-1024585/1-A	Method Blank	Total/NA	Solid	7471B	1024585
LCSSRM 460-1024584/11-A	Lab Control Sample	Total/NA	Solid	7471B	1024584
LCSSRM 460-1024585/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1024585
460-319229-11 MS	3-01-TS	Total/NA	Solid	7471B	1024585
460-319229-11 MSD	3-01-TS	Total/NA	Solid	7471B	1024585
460-320857-D-7-F MS ^3	Matrix Spike	Total/NA	Solid	7471B	1024584
460-320857-D-7-G MSD ^3	Matrix Spike Duplicate	Total/NA	Solid	7471B	1024584
460-319229-11 DU	3-01-TS	Total/NA	Solid	7471B	1024585
460-320857-D-7-E DU ^3	Duplicate	Total/NA	Solid	7471B	1024584

General Chemistry

Analysis Batch: 1018207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	Moisture	
460-319229-4	2B-06-CS-4	Total/NA	Solid	Moisture	
460-319229-5	2B-06-CS-8	Total/NA	Solid	Moisture	
460-319229-6	3-02-TS	Total/NA	Solid	Moisture	
460-319229-7	DUP-03	Total/NA	Solid	Moisture	
460-319229-8	3-02-CS	Total/NA	Solid	Moisture	
460-319229-9	3-03-CS-4	Total/NA	Solid	Moisture	
460-319229-10	3-03-CS-8	Total/NA	Solid	Moisture	
460-319229-11	3-01-TS	Total/NA	Solid	Moisture	
460-319229-12	3-01-CS	Total/NA	Solid	Moisture	
460-319229-13	4-02-TS	Total/NA	Solid	Moisture	
460-319229-14	4-02-CS	Total/NA	Solid	Moisture	
460-319229-11 MS	3-01-TS	Total/NA	Solid	Moisture	
460-319229-11 MSD	3-01-TS	Total/NA	Solid	Moisture	
460-319229-4 DU	2B-06-CS-4	Total/NA	Solid	Moisture	

Prep Batch: 1018379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	9012B	
460-319229-4	2B-06-CS-4	Total/NA	Solid	9012B	
460-319229-5	2B-06-CS-8	Total/NA	Solid	9012B	
460-319229-9	3-03-CS-4	Total/NA	Solid	9012B	
460-319229-10	3-03-CS-8	Total/NA	Solid	9012B	
MB 460-1018379/13-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1018379/14-A	Lab Control Sample	Total/NA	Solid	9012B	
460-319175-E-5-V MS	Matrix Spike	Total/NA	Solid	9012B	

General Chemistry (Continued)

Prep Batch: 1018379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319175-E-5-W MSD	Matrix Spike Duplicate	Total/NA	Solid	9012B	

Analysis Batch: 1018404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-3	2B-06-TS	Total/NA	Solid	9012B	1018379
460-319229-4	2B-06-CS-4	Total/NA	Solid	9012B	1018379
460-319229-5	2B-06-CS-8	Total/NA	Solid	9012B	1018379
460-319229-9	3-03-CS-4	Total/NA	Solid	9012B	1018379
460-319229-10	3-03-CS-8	Total/NA	Solid	9012B	1018379
MB 460-1018379/13-A	Method Blank	Total/NA	Solid	9012B	1018379
LCSSRM 460-1018379/14-A	Lab Control Sample	Total/NA	Solid	9012B	1018379
460-319175-E-5-V MS	Matrix Spike	Total/NA	Solid	9012B	1018379
460-319175-E-5-W MSD	Matrix Spike Duplicate	Total/NA	Solid	9012B	1018379

Prep Batch: 1018545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	9012B	
MB 460-1018545/13-A	Method Blank	Total/NA	Water	9012B	
LCS 460-1018545/14-A	Lab Control Sample	Total/NA	Water	9012B	
MRL 460-1018545/12-A	Lab Control Sample	Total/NA	Solid	9012B	
460-319207-E-4-B MS	Matrix Spike	Total/NA	Water	9012B	
460-319207-E-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Prep Batch: 1018548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-13	4-02-TS	Total/NA	Solid	9012B	
460-319229-14	4-02-CS	Total/NA	Solid	9012B	
MB 460-1018548/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1018548/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319229-13 MS	4-02-TS	Total/NA	Solid	9012B	
460-319229-13 MSD	4-02-TS	Total/NA	Solid	9012B	

Analysis Batch: 1018606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-2	FB-20250123	Total/NA	Water	9012B	1018545
460-319229-13	4-02-TS	Total/NA	Solid	9012B	1018548
460-319229-14	4-02-CS	Total/NA	Solid	9012B	1018548
MB 460-1018545/13-A	Method Blank	Total/NA	Water	9012B	1018545
MB 460-1018548/1-A	Method Blank	Total/NA	Solid	9012B	1018548
LCS 460-1018545/14-A	Lab Control Sample	Total/NA	Water	9012B	1018545
LCSSRM 460-1018548/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1018548
MRL 460-1018545/12-A	Lab Control Sample	Total/NA	Solid	9012B	1018545
460-319207-E-4-B MS	Matrix Spike	Total/NA	Water	9012B	1018545
460-319207-E-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	1018545
460-319229-13 MS	4-02-TS	Total/NA	Solid	9012B	1018548
460-319229-13 MSD	4-02-TS	Total/NA	Solid	9012B	1018548

Prep Batch: 1024738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	9012B	
460-319229-7	DUP-03	Total/NA	Solid	9012B	

General Chemistry (Continued)

Prep Batch: 1024738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-8	3-02-CS	Total/NA	Solid	9012B	
460-319229-11	3-01-TS	Total/NA	Solid	9012B	
460-319229-12	3-01-CS	Total/NA	Solid	9012B	
MB 460-1024738/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1024738/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319229-11 MS	3-01-TS	Total/NA	Solid	9012B	
460-319229-11 MSD	3-01-TS	Total/NA	Solid	9012B	

Prep Batch: 1024952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 460-1024952/12-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 1024960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319229-6	3-02-TS	Total/NA	Solid	9012B	1024738
460-319229-7	DUP-03	Total/NA	Solid	9012B	1024738
460-319229-8	3-02-CS	Total/NA	Solid	9012B	1024738
460-319229-11	3-01-TS	Total/NA	Solid	9012B	1024738
460-319229-12	3-01-CS	Total/NA	Solid	9012B	1024738
MB 460-1024738/1-A	Method Blank	Total/NA	Solid	9012B	1024738
LCSSRM 460-1024738/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1024738
MRL 460-1024952/12-A	Lab Control Sample	Total/NA	Solid	9012B	1024952
460-319229-11 MS	3-01-TS	Total/NA	Solid	9012B	1024738
460-319229-11 MSD	3-01-TS	Total/NA	Solid	9012B	1024738

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: Trip Blank
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1018189	SZD	EET EDI	01/27/25 09:41

Client Sample ID: FB-20250123
Date Collected: 01/23/25 12:00
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1018189	SZD	EET EDI	01/27/25 10:04
Total/NA	Prep	3510C			1018078	ZEH	EET EDI	01/25/25 11:53
Total/NA	Analysis	8270E		1	1018087	YAH	EET EDI	01/25/25 22:12
Total/NA	Prep	3510C			1018037	JMS	EET EDI	01/24/25 21:14
Total/NA	Analysis	8081B		1	1018166	FAM	EET EDI	01/27/25 11:01
Total/NA	Prep	3510C			1018033	JMS	EET EDI	01/24/25 21:04
Total/NA	Analysis	8082A		1	1018186	FAM	EET EDI	01/27/25 08:43
Total/NA	Prep	3510C			1018029	JMS	EET EDI	01/24/25 20:35
Total/NA	Analysis	NJDEP EPH		1	1018053	OXG	EET EDI	01/25/25 11:17
Total/NA	Prep	3010A			1018393	NNW	EET EDI	01/28/25 10:44
Total/NA	Analysis	6020B		1	1018426	JKF	EET EDI	01/28/25 16:30
Total/NA	Prep	7470A			1018237	RBS	EET EDI	01/27/25 11:28
Total/NA	Analysis	7470A		1	1018264	RBS	EET EDI	01/27/25 14:34
Total/NA	Prep	9012B			1018545	AXP	EET EDI	01/29/25 09:16
Total/NA	Analysis	9012B		1	1018606	AXP	EET EDI	01/29/25 12:54

Client Sample ID: 2B-06-TS
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018401	JHP	EET EDI	01/28/25 12:07
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 2B-06-TS
Date Collected: 01/23/25 15:20
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-3
Matrix: Solid
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 18:53
Total/NA	Analysis	8260D		1	1018422	VBP	EET EDI	01/29/25 01:02
Total/NA	Prep	3546			1018240	OTS	EET EDI	01/27/25 11:40
Total/NA	Analysis	8270E		1	1018311	MDJ	EET EDI	01/28/25 10:17
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 09:11
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 15:48

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 2B-06-TS

Lab Sample ID: 460-319229-3

Date Collected: 01/23/25 15:20
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018367	JHP	EET EDI	01/28/25 17:05
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018368	JHP	EET EDI	01/28/25 17:05
Total/NA	Prep	3050B			1018348	FBT	EET EDI	01/28/25 06:35
Total/NA	Analysis	6020B		1	1018417	CDC	EET EDI	01/28/25 15:53
Total/NA	Prep	7471B			1018162	TJS	EET EDI	01/27/25 01:29
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 06:21
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:45

Client Sample ID: 2B-06-CS-4

Lab Sample ID: 460-319229-4

Date Collected: 01/23/25 15:30
Matrix: Solid
Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018401	JHP	EET EDI	01/28/25 12:07
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 2B-06-CS-4

Lab Sample ID: 460-319229-4

Date Collected: 01/23/25 15:30
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 18:54
Total/NA	Analysis	8260D		1	1018422	VBP	EET EDI	01/29/25 01:25
Total/NA	Prep	3546			1018240	OTS	EET EDI	01/27/25 11:40
Total/NA	Analysis	8270E		1	1018311	MDJ	EET EDI	01/28/25 06:08
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 09:23
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 16:05
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018367	JHP	EET EDI	01/28/25 17:20
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018368	JHP	EET EDI	01/28/25 17:20
Total/NA	Prep	3050B			1018348	FBT	EET EDI	01/28/25 06:35
Total/NA	Analysis	6020B		1	1018417	CDC	EET EDI	01/28/25 15:56
Total/NA	Prep	7471B			1018162	TJS	EET EDI	01/27/25 01:29
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 06:14
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:46

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: 2B-06-CS-8

Lab Sample ID: 460-319229-5

Date Collected: 01/23/25 15:40

Matrix: Solid

Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018401	JHP	EET EDI	01/28/25 12:07
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 2B-06-CS-8

Lab Sample ID: 460-319229-5

Date Collected: 01/23/25 15:40

Matrix: Solid

Date Received: 01/23/25 16:50

Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 18:55
Total/NA	Analysis	8260D		1	1018422	VBP	EET EDI	01/29/25 01:48
Total/NA	Prep	3546			1018240	OTS	EET EDI	01/27/25 11:40
Total/NA	Analysis	8270E		1	1018311	MDJ	EET EDI	01/28/25 07:06
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 09:35
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 16:22
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018367	JHP	EET EDI	01/28/25 17:36
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018368	JHP	EET EDI	01/28/25 17:36
Total/NA	Prep	3050B			1018348	FBT	EET EDI	01/28/25 06:35
Total/NA	Analysis	6020B		1	1018417	CDC	EET EDI	01/28/25 15:58
Total/NA	Prep	7471B			1018162	TJS	EET EDI	01/27/25 01:29
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 06:23
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:47

Client Sample ID: 3-02-TS

Lab Sample ID: 460-319229-6

Date Collected: 01/23/25 13:40

Matrix: Solid

Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 3-02-TS

Lab Sample ID: 460-319229-6

Date Collected: 01/23/25 13:40

Matrix: Solid

Date Received: 01/23/25 16:50

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 18:56
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 02:04
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 19:19

Client Sample ID: 3-02-TS

Lab Sample ID: 460-319229-6

Date Collected: 01/23/25 13:40
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1024269	ARA	EET EDI	03/05/25 17:27
Total/NA	Analysis	8081B		1	1024333	FAM	EET EDI	03/06/25 05:43
Total/NA	Prep	3546			1024267	ARA	EET EDI	03/05/25 17:21
Total/NA	Analysis	8082A		1	1024358	SAK	EET EDI	03/06/25 09:40
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 21:48
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 21:48
Total/NA	Prep	3050B			1024132	FBT	EET EDI	03/05/25 07:04
Total/NA	Analysis	6020B		1	1024256	CDC	EET EDI	03/05/25 15:20
Total/NA	Prep	7471B			1024584	TJS	EET EDI	03/07/25 00:47
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:00
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 15:52

Client Sample ID: DUP-03

Lab Sample ID: 460-319229-7

Date Collected: 01/23/25 12:03
Matrix: Solid
Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: DUP-03

Lab Sample ID: 460-319229-7

Date Collected: 01/23/25 12:03
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 18:56
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 02:27
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 19:38
Total/NA	Prep	3546			1024269	ARA	EET EDI	03/05/25 17:27
Total/NA	Analysis	8081B		1	1024333	FAM	EET EDI	03/06/25 05:56
Total/NA	Prep	3546			1024267	ARA	EET EDI	03/05/25 17:21
Total/NA	Analysis	8082A		1	1024358	SAK	EET EDI	03/06/25 09:57
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 22:04
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 22:04
Total/NA	Prep	3050B			1024132	FBT	EET EDI	03/05/25 07:04
Total/NA	Analysis	6020B		1	1024256	CDC	EET EDI	03/05/25 15:22
Total/NA	Prep	7471B			1024584	TJS	EET EDI	03/07/25 00:47
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:02

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Client Sample ID: DUP-03

Lab Sample ID: 460-319229-7
Date Collected: 01/23/25 12:03
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 15:53

Client Sample ID: 3-02-CS

Lab Sample ID: 460-319229-8
Date Collected: 01/23/25 13:50
Matrix: Solid
Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 3-02-CS

Lab Sample ID: 460-319229-8
Date Collected: 01/23/25 13:50
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 18:57
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 02:50
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 18:01
Total/NA	Prep	3546			1024269	ARA	EET EDI	03/05/25 17:27
Total/NA	Analysis	8081B		1	1024333	FAM	EET EDI	03/06/25 06:09
Total/NA	Prep	3546			1024267	ARA	EET EDI	03/05/25 17:21
Total/NA	Analysis	8082A		1	1024358	SAK	EET EDI	03/06/25 10:47
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 22:20
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 22:20
Total/NA	Prep	3050B			1024132	FBT	EET EDI	03/05/25 07:04
Total/NA	Analysis	6020B		1	1024256	CDC	EET EDI	03/05/25 15:25
Total/NA	Prep	7471B			1024584	TJS	EET EDI	03/07/25 00:47
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:04
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 15:54

Client Sample ID: 3-03-CS-4

Lab Sample ID: 460-319229-9
Date Collected: 01/23/25 14:10
Matrix: Solid
Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018401	JHP	EET EDI	01/28/25 12:07
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 3-03-CS-4

Lab Sample ID: 460-319229-9

Date Collected: 01/23/25 14:10

Matrix: Solid

Date Received: 01/23/25 16:50

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 18:58
Total/NA	Analysis	8260D		1	1018422	VBP	EET EDI	01/29/25 02:12
Total/NA	Prep	3546			1018240	OTS	EET EDI	01/27/25 11:40
Total/NA	Analysis	8270E		1	1018311	MDJ	EET EDI	01/28/25 07:25
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 09:48
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 16:38
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018367	JHP	EET EDI	01/28/25 17:52
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018368	JHP	EET EDI	01/28/25 17:52
Total/NA	Prep	3050B			1018348	FBT	EET EDI	01/28/25 06:35
Total/NA	Analysis	6020B		1	1018417	CDC	EET EDI	01/28/25 16:01
Total/NA	Prep	7471B			1018162	TJS	EET EDI	01/27/25 01:29
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 06:28
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:48

Client Sample ID: 3-03-CS-8

Lab Sample ID: 460-319229-10

Date Collected: 01/23/25 14:20

Matrix: Solid

Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018401	JHP	EET EDI	01/28/25 12:07
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 3-03-CS-8

Lab Sample ID: 460-319229-10

Date Collected: 01/23/25 14:20

Matrix: Solid

Date Received: 01/23/25 16:50

Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 18:59
Total/NA	Analysis	8260D		1	1018422	VBP	EET EDI	01/29/25 02:35
Total/NA	Prep	3546			1018240	OTS	EET EDI	01/27/25 11:40
Total/NA	Analysis	8270E		1	1018311	MDJ	EET EDI	01/28/25 07:44
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 10:00
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 16:55
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018367	JHP	EET EDI	01/28/25 18:08
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018368	JHP	EET EDI	01/28/25 18:08

Client Sample ID: 3-03-CS-8

Lab Sample ID: 460-319229-10
Date Collected: 01/23/25 14:20
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1018348	FBT	EET EDI	01/28/25 06:35
Total/NA	Analysis	6020B		1	1018417	CDC	EET EDI	01/28/25 16:03
Total/NA	Prep	7471B			1018162	TJS	EET EDI	01/27/25 01:29
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 06:30
Total/NA	Prep	9012B			1018379	AXP	EET EDI	01/28/25 09:12
Total/NA	Analysis	9012B		1	1018404	AXP	EET EDI	01/28/25 12:49

Client Sample ID: 3-01-TS

Lab Sample ID: 460-319229-11
Date Collected: 01/23/25 14:30
Matrix: Solid
Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 3-01-TS

Lab Sample ID: 460-319229-11
Date Collected: 01/23/25 14:30
Matrix: Solid
Date Received: 01/23/25 16:50
Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 19:00
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 03:13
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 20:16
Total/NA	Prep	3546			1024269	ARA	EET EDI	03/05/25 17:27
Total/NA	Analysis	8081B		1	1024333	FAM	EET EDI	03/06/25 06:22
Total/NA	Prep	3546			1024267	ARA	EET EDI	03/05/25 17:21
Total/NA	Analysis	8082A		1	1024358	SAK	EET EDI	03/06/25 11:04
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 21:33
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 21:33
Total/NA	Prep	3050B			1024132	FBT	EET EDI	03/05/25 07:04
Total/NA	Analysis	6020B		1	1024256	CDC	EET EDI	03/05/25 14:25
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:09
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 15:50

Client Sample ID: 3-01-CS

Lab Sample ID: 460-319229-12
Date Collected: 01/23/25 14:40
Matrix: Solid
Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23

Client Sample ID: 3-01-CS
Date Collected: 01/23/25 14:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 3-01-CS
Date Collected: 01/23/25 14:40
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-12
Matrix: Solid
Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 19:02
Total/NA	Analysis	8260D		1	1024023	MZS	EET EDI	03/05/25 03:36
Total/NA	Prep	3546			1023975	DXD	EET EDI	03/04/25 08:39
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 18:21
Total/NA	Prep	3546			1024269	ARA	EET EDI	03/05/25 17:27
Total/NA	Analysis	8081B		1	1024333	FAM	EET EDI	03/06/25 07:01
Total/NA	Prep	3546			1024267	ARA	EET EDI	03/05/25 17:21
Total/NA	Analysis	8082A		1	1024358	SAK	EET EDI	03/06/25 11:20
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 22:35
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 22:35
Total/NA	Prep	3050B			1024132	FBT	EET EDI	03/05/25 07:04
Total/NA	Analysis	6020B		1	1024256	CDC	EET EDI	03/05/25 15:28
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:25
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 15:55

Client Sample ID: 4-02-TS
Date Collected: 01/23/25 15:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018401	JHP	EET EDI	01/28/25 12:07
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 4-02-TS
Date Collected: 01/23/25 15:10
Date Received: 01/23/25 16:50

Lab Sample ID: 460-319229-13
Matrix: Solid
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 19:03
Total/NA	Analysis	8260D		1	1018422	VBP	EET EDI	01/29/25 02:58
Total/NA	Prep	3546			1018240	OTS	EET EDI	01/27/25 11:40
Total/NA	Analysis	8270E		1	1018311	MDJ	EET EDI	01/28/25 09:01
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 10:12

Client Sample ID: 4-02-TS

Lab Sample ID: 460-319229-13

Date Collected: 01/23/25 15:10

Matrix: Solid

Date Received: 01/23/25 16:50

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 17:12
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018367	JHP	EET EDI	01/28/25 18:23
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018368	JHP	EET EDI	01/28/25 18:23
Total/NA	Prep	3050B			1018348	FBT	EET EDI	01/28/25 06:35
Total/NA	Analysis	6020B		1	1018417	CDC	EET EDI	01/28/25 16:06
Total/NA	Prep	7471B			1018162	TJS	EET EDI	01/27/25 01:29
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 06:32
Total/NA	Prep	9012B			1018548	AXP	EET EDI	01/29/25 09:22
Total/NA	Analysis	9012B		1	1018606	AXP	EET EDI	01/29/25 13:10

Client Sample ID: 4-02-CS

Lab Sample ID: 460-319229-14

Date Collected: 01/23/25 15:20

Matrix: Solid

Date Received: 01/23/25 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018401	JHP	EET EDI	01/28/25 12:07
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:12

Client Sample ID: 4-02-CS

Lab Sample ID: 460-319229-14

Date Collected: 01/23/25 15:20

Matrix: Solid

Date Received: 01/23/25 16:50

Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018032	YXG	EET EDI	01/24/25 19:03
Total/NA	Analysis	8260D		1	1018422	VBP	EET EDI	01/29/25 03:21
Total/NA	Prep	3546			1018240	OTS	EET EDI	01/27/25 11:40
Total/NA	Analysis	8270E		1	1018311	MDJ	EET EDI	01/28/25 08:03
Total/NA	Prep	3546			1018105	ZXB	EET EDI	01/25/25 18:37
Total/NA	Analysis	8081B		1	1018163	FAM	EET EDI	01/27/25 10:25
Total/NA	Prep	3546			1018104	ZXB	EET EDI	01/25/25 18:34
Total/NA	Analysis	8082A		1	1018184	FAM	EET EDI	01/27/25 17:29
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018367	JHP	EET EDI	01/28/25 18:39
Total/NA	Prep	3546			1018231	FHW	EET EDI	01/27/25 10:06
Total/NA	Analysis	NJDEP EPH		1	1018368	JHP	EET EDI	01/28/25 18:39
Total/NA	Prep	3050B			1018348	FBT	EET EDI	01/28/25 06:35
Total/NA	Analysis	6020B		1	1018417	CDC	EET EDI	01/28/25 16:49
Total/NA	Prep	7471B			1018162	TJS	EET EDI	01/27/25 01:29
Total/NA	Analysis	7471B		1	1018211	TJS	EET EDI	01/27/25 06:33
Total/NA	Prep	9012B			1018548	AXP	EET EDI	01/29/25 09:22
Total/NA	Analysis	9012B		1	1018606	AXP	EET EDI	01/29/25 13:13

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319229-1
Project/Site: Manchester LF

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-03-26
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	03-31-25
Pennsylvania	NELAP	68-00522	02-27-26
Rhode Island	State	LAO00376	12-23-25
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
NJ DEP EPH	New Jersey - Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
NJDEP EPH	New Jersey Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

NJDEP = New Jersey Department of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319229-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-319229-1	Trip Blank	Water	01/23/25 15:20	01/23/25 16:50
460-319229-2	FB-20250123	Water	01/23/25 12:00	01/23/25 16:50
460-319229-3	2B-06-TS	Solid	01/23/25 15:20	01/23/25 16:50
460-319229-4	2B-06-CS-4	Solid	01/23/25 15:30	01/23/25 16:50
460-319229-5	2B-06-CS-8	Solid	01/23/25 15:40	01/23/25 16:50
460-319229-6	3-02-TS	Solid	01/23/25 13:40	01/23/25 16:50
460-319229-7	DUP-03	Solid	01/23/25 12:03	01/23/25 16:50
460-319229-8	3-02-CS	Solid	01/23/25 13:50	01/23/25 16:50
460-319229-9	3-03-CS-4	Solid	01/23/25 14:10	01/23/25 16:50
460-319229-10	3-03-CS-8	Solid	01/23/25 14:20	01/23/25 16:50
460-319229-11	3-01-TS	Solid	01/23/25 14:30	01/23/25 16:50
460-319229-12	3-01-CS	Solid	01/23/25 14:40	01/23/25 16:50
460-319229-13	4-02-TS	Solid	01/23/25 15:10	01/23/25 16:50
460-319229-14	4-02-CS	Solid	01/23/25 15:20	01/23/25 16:50

Chain of Custody Record 762492

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TAL-8210

Address 777 New Durham Rd
Edison, NJ 08817
732-549-3900

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Mike Nolder	Site Contact: Ed Hora	Date: 1/23/25	COC No: 1 of 2 COCs
Company Name: Geosyntec Consultants	Tel/Email: MNolder@geosyntec.com	Lab Contact:	Carrier:	Sampler: EH
Address: 1750 American Blvd suite 200	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only: Walk-in Client: Lab Sampling:
City/State/Zip: Plainsboro, NJ 08534	TAT if different from Below: 5			
Phone: 201-438-5412	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Job / SDG No.: 319229
Project Name: Manchester LF				
Site: Manchester NJ				
PO #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260D TCL VOA +10	NJ EPH Frac, 8081B	8082A, 6020B w/Hg	7471B, 9012B, 8270E TCL VOA	8260D SPLP TCL SVOC	8270E SPLP TCL SVOC	8081B SPLP, 6020B SPLP	7470A SPLP, 9012B SPLP	8260D TCL VOA +10	NJ EPH NO Frac	8270E TCL BNA +20	8081B, 8082A	6020B TAL Metals w/Hg	7470A, 9012B Hg	Sample Specific Notes:
Trip Blank	1/20/25	-	G	W	2											X						1
FB_20250123	1/23/25	1200	G	W	14											X	X	X	X	X	X	2
2B-06-TS	1/22/25	1520	G	S	9			X	X	X	X	H	H	H	H							3
2B-06-CS-4	1/22/25	1530	G	S	9			X	X	X	X	H	H	H	H							4
2B-06-CS-8	1/22/25	1540	G	S	9			X	X	X	X	H	H	H	H							5
3-02-TS	1/23/25	1340	G	S	9			H	H	H	H	H	H	H	H							6 SHORT HOLD
DUP-03	1/23/25	1203	G	S	9			H	H	H	H	H	H	H	H							7 HOLD
3-02-CS	1/23/25	1350	G	S	9			H	H	H	H	H	H	H	H							8
3-03-CS-4	1/23/25	1410	G	S	9			X	X	X	X	H	H	H	H							9
3-03-CS-8	1/23/25	1420	G	S	9			X	X	X	X	H	H	H	H							10
3-01-TS	1/23/25	1430	G	S	27		Y	H	H	H	H	H	H	H	H							* MS/MSD 11
3-01-CS	1/23/25	1440	G	S	9			H	H	H	H	H	H	H	H							12

460-319229 Chain of Custody

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

	1	1	1	1	1	1	1	1	1	1	2	2	1	1	4	4/5						

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments:
*Refer to Lab #460456.04 for analyses *Hold all SPLP perform extraction as needed X = Run sample H = Hold sample - 2 coolers

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C): Obs'd.	Corr'd.	Therm ID No.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Ed Hora	Geosyntec	1/23/25 1530		CET	1/23/25 15:30
Relinquished by	Company	Date/Time: 1/23/25 1611	Received by: Ken Nolan	Company ETA	Date/Time: 1/23 1615
Relinquished by	Company	Date/Time:	Received in Laboratory by	Company	Date/Time:

4/4/2025

1209 1.1 13 1.1 1.1 1.0

Chain of Custody Record 762495

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TAL-8210

Address 777 New Durham Rd
Edison, NJ 08817
732 - 549 - 3900

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: M Mulder	Site Contact: Ed Horn	Date: 1/23/25	COC No:
Company Name: Geosyntec Consultants	Tel/Email: MMulder@geosyntec.com	Lab Contact:	Carrier:	2 of 2 COCs
Address: 1750 American Blvd ste 200	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS			Sampler: EH
City/State/Zip: Pennington, NJ 08534	TAT if different from Below: 5			For Lab Use Only: Walk-in Client: / Lab Sampling:
Phone: 201 - 438 - 5412	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Job / SDG No.: 319229
Fax:				
Project Name: Manchester LF				
Site: Manchester LF				
PO #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260D TCL WA +10	NYSDEH Exc. 8081B	8081A, 6020D w/Hg	7471B, 6020B, 3020B	8260D SPLP TCL WA	8270E SPLP SVOCs	8081B SPLP, 6020B SPLP	7470A SPLP, 6020B SPLP	Sample Specific Notes:
4-02-TS	1/23/25	1510	G	S	9			X	X	X	X	H	H	H	H	-13
4-02-CS	1/23/25	1520	G	S	9			X	X	X	X	H	H	H	H	-14

EH 1/23/25

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments:
* Refer to Lab # 46045604 for analyses
*Hold all SPLP extract as needed
X = Run sample
H = Hold sample
- 2 coolers

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No. | Cooler Temp (°C): Obs'd. | Corr'd. | Therm ID No.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Ed-TH	Geosyntec	1/23/25 1530		EET	1/23/25 1520
	EET	1/23/25 1650		ETA	1/23 1650
			Received in Laboratory by	Company	Date/Time:

4/11/2025

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MRS 1R9

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 319229

Number of Coolers: 2

IR Gun # 01

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.1 °C	1.3 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	1.1 °C	1.3 °C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
2				<2			<2					>12			

If pH adjustments are required record the information below:

Sample No(s). adjusted. _____

Preservative Name/Conc. _____ Volume of Preservative used (ml) _____

Lot # of Preservative(s) _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: AMJ

Date: 1/23/27

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 460-319229-1

Login Number: 319229
List Number: 1
Creator: Thundathorn, Sukanan 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Nolden
Geosyntec Consultants Inc
289 Great Road (Rte 2A)
Suite 202
Acton, Massachusetts 01720

Generated 4/1/2025 12:19:36 PM

JOB DESCRIPTION

Manchester LF JR0312

JOB NUMBER

460-319275-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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4/1/2025 12:19:36 PM

Authorized for release by
Jannel Franklin, Manager of Project Management Assistants
Jannel.Franklin@et.eurofinsus.com
(732)593-2551

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Qualifiers (Continued)

General Chemistry (Continued)

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
460-319275-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/24/2025 5:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 0.4°C, 2.4°C and 2.4°C.

Receipt Exceptions
The following samples were activated for remaining total analysis for Metals, PCBs and out of analytical holding time for Volatiles, Semivolatiles, Pesticides, Cyanide, NJEPH and Mercury by the client on 2/28/25: 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13[MS]), IB-05-CS-4 (460-319275-13[MSD]), IB-05-CS-8 (460-319275-14), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-06-CS-4 (460-319275-32) and 2A-06-CS-8 (460-319275-33).

March 21st, 2025 - Remaining samples on hold cancelled by the client.

Method 8260D - Volatile Organic Compounds by GC/MS
Samples FB-20250124 (460-319275-1), Trip Blank (460-319275-2), 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for Volatile Organic Compounds by GC/MS. The samples were prepared on 1/25/2025 and analyzed on 1/28/2025, 1/29/2025, 1/30/2025, 3/6/2025 and 3/7/2025.

The continuing calibration verification (CCV) associated with batch 460-1018322 recovered above the upper control limit for Acrolein, Acrylonitrile and Methyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) for analytical batch 460-1018322 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1018424 was outside the method criteria for the following analyte(s): Bromomethane (biased low); Acrolein, Acrylonitrile and Methyl acetate (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) for analytical batch 460-1018424 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1018701 was outside the method criteria for the following analytes: Chlorobromomethane (biased high) and Trichlorofluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Internal standard (ISTD) response for 1,4-Dioxane-d8 for the following samples was outside of acceptance limits: 2A-05-CS-4 (460-319275-30) and 2A-07-TS (460-319275-34). The corresponding target analyte 1,4-Dioxane was not detected. Re-analysis was not performed.

The continuing calibration verification (CCV) associated with batch 460-1018633 recovered above the upper control limit for Chlorobromomethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1018633 recovered outside control limits for the following analytes: 2-Hexanone and 4-Methyl-2-pentanone (MIBK) (biased low) and 1,2-Dibromo-3-Chloropropane, 1,4-Dioxane, Bromomethane, Chlorobromomethane and Methyl acetate (biased high). These analytes were not detected in the associated samples; therefore, the data have been reported.

Internal standard (ISTD) response for 1,4-Dioxane-d8 for the following MS was outside of acceptance limits: IB-04-CS-4 (460-319275-15[MS]). The corresponding target analyte 1,4-Dioxane was not detected. Re-analysis was not performed.

The laboratory control sample (LCS) for analytical batch 460-1018701 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, 1,1,1-Trichloroethane, 2-Hexanone and 4-Methyl-2-pentanone (MIBK). These analytes were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1024609 was outside the method criteria for the following analytes: Bromoform (biased low) and Bromomethane (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-1024342 was outside the method criteria for the following analyte(s): Bromoform (biased low) and Bromomethane (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1024342 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane (biased low) and Bromomethane (biased high). These analytes were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-1024609 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane (biased low) and Bromomethane (biased high). These analytes were not detected in the associated samples; therefore, the data have been reported.

Method 8270E - Semivolatile Organic Compounds (GC/MS)
Samples FB-20250124 (460-319275-1), 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared on 1/26/2025, 1/28/2025 and 3/4/2025 and analyzed on 1/26/2025, 1/28/2025, 1/29/2025, 3/4/2025 and 3/5/2025.

The continuing calibration verification (CCV) analyzed in batch 460-1018152 was outside the method criteria for the following analyte(s): Benzaldehyde and Benzidine. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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The continuing calibration verification (CCV) analyzed in batch 460-1018444 was outside the method criteria for the following analyte(s): Benzaldehyde, Benzidine and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-1023976 and analytical batch 460-1023996 recovered outside control limits for the following analytes: Benzidine and Hexachlorocyclopentadiene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1023993 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-1023996 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons
Samples 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for New Jersey - Extractable Petroleum Hydrocarbons. The samples were analyzed on 1/30/2025 and 3/7/2025.

Method NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons
Samples FB-20250124 (460-319275-1), 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for New Jersey Extractable Petroleum Hydrocarbons. The samples were prepared on 1/29/2025 and 3/6/2025 and analyzed on 1/27/2025, 1/29/2025, 1/30/2025, 3/6/2025 and 3/7/2025.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-1018684 and analytical batch 460-1018963 recovered outside control limits for the following analytes C16-C21 Aliphatics and C21-C40 Aliphatics. (LCSD 460-1018684/3-A)

Method 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography
Samples FB-20250124 (460-319275-1), 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography. The samples were prepared on 1/26/2025, 1/28/2025 and 3/5/2025 and analyzed on 1/27/2025, 1/28/2025 and 3/6/2025.

Surrogate recovery is outside control limit. Spike recovery is within control limits.There fore data is reported.

(LCS 460-1018145/2-A) and (LCSD 460-1018145/3-A)

The surrogate recovery for the blank associated with preparation batch 460-1018145 and analytical batch 460-1018250 was outside the upper control limits.

Tetrachloro-m-xylene surrogate recovery is outside control limit for the CCV but within control for the samples. Therefore data has been reported.

(CCVIS 460-1024360/2)

Method 8081B - Organochlorine Pesticides (GC)
Samples FB-20250124 (460-319275-1), 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for Organochlorine Pesticides (GC). The samples were prepared on 1/26/2025, 1/28/2025 and 3/5/2025 and analyzed on 1/27/2025, 1/28/2025, 1/29/2025 and 3/6/2025.

The continuing calibration verification (CCV) associated with batch 460-1024330 recovered above the upper control limit for Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1024330/3).

The Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24) and 2B-01-TS (460-319275-27). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The following samples were prepared outside of preparation holding time due to sample receipt : 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13[MS]), IB-05-CS-4 (460-319275-13[MSD]), IB-05-CS-8 (460-319275-14), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28) and 2A-06-CS-4 (460-319275-32).

The following samples were prepared outside of preparation holding time due to sample receipt: 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13[MS]), IB-05-CS-4 (460-319275-13[MSD]), IB-05-CS-8 (460-319275-14), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-06-CS-4 (460-319275-32) and 2A-06-CS-8 (460-319275-33).

Method 6020B - Metals (ICP/MS)
Samples FB-20250124 (460-319275-1), 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for Metals (ICP/MS). The samples were prepared on 1/29/2025 and 3/7/2025 and analyzed on 1/29/2025, 1/30/2025 and 3/8/2025.

Method 7470A - Mercury (CVAA)
Sample FB-20250124 (460-319275-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 1/27/2025.

Method 7471B - Mercury (CVAA)
Samples 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 1/29/2025, 3/5/2025 and 3/7/2025.

Method 9012B - Cyanide, Total andor Amenable
Samples FB-20250124 (460-319275-1), 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for Cyanide, Total andor Amenable. The samples were prepared on 1/29/2025, 1/30/2025 and 3/7/2025 and analyzed on 1/29/2025, 1/30/2025 and 3/9/2025.

Method Moisture - Percent Moisture
Samples 4-01-TS (460-319275-3), 4-01-CS (460-319275-4), 4-04-CS-4 (460-319275-5), 4-04-CS-8 (460-319275-6), 4-03-TS (460-319275-7), 4-03-CS-4 (460-319275-8), 4-03-CS-8 (460-319275-9), IB-01-TS (460-319275-10), IB-01-CS (460-319275-11), Dup-04 (460-319275-12), IB-05-CS-4 (460-319275-13), IB-05-CS-4 (460-319275-13MS), IB-05-CS-4 (460-319275-13MSD), IB-05-CS-8 (460-319275-14), IB-04-CS-4 (460-319275-15), IB-04-CS-4 (460-319275-15MS), IB-04-CS-4 (460-319275-15MSD), IB-04-CS-8 (460-319275-16), IB-06-TS (460-319275-17), IB-06-CS-4 (460-319275-18), IB-06-CS-8 (460-319275-19), Dup-05 (460-319275-20), IB-02-TS (460-319275-21), IB-02-CS (460-319275-22), IB-03-TS (460-319275-23), IB-03-CS (460-319275-24), 2B-02-TS (460-319275-25), 2B-02-CS (460-319275-26), 2B-01-TS (460-319275-27), 2B-01-CS (460-319275-28), 2A-05-TS (460-319275-29), 2A-05-CS-4 (460-319275-30), 2A-05-CS-8 (460-319275-31), 2A-06-CS-4 (460-319275-32), 2A-06-CS-8 (460-319275-33), 2A-07-TS (460-319275-34), 2A-07-CS-4 (460-319275-35) and 2A-07-CS-8 (460-319275-36) were analyzed for Percent Moisture. The samples were analyzed on 1/27/2025.

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: FB-20250124 — Lab Sample ID: 460-319275-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.44	J	1.0	0.32	ug/L	1		8260D	Total/NA
Calcium	57.2	J	500	53.6	ug/L	1		6020B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 460-319275-2

No Detections.

Client Sample ID: 4-01-TS — Lab Sample ID: 460-319275-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	300		16.9	4.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.27	J	0.84	0.087	mg/Kg	1	☼	6020B	Total/NA
Barium	1.9		1.7	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	52.6	J	84.4	34.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.2	J	1.7	0.77	mg/Kg	1	☼	6020B	Total/NA
Copper	1.3	J	1.7	0.31	mg/Kg	1	☼	6020B	Total/NA
Iron	335		50.6	17.0	mg/Kg	1	☼	6020B	Total/NA
Lead	8.9		0.51	0.17	mg/Kg	1	☼	6020B	Total/NA
Magnesium	13.8	J	84.4	8.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.8	J	3.4	0.34	mg/Kg	1	☼	6020B	Total/NA
Potassium	16.2	J	84.4	13.7	mg/Kg	1	☼	6020B	Total/NA
Vanadium	1.9		1.7	0.17	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 4-01-CS — Lab Sample ID: 460-319275-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3490		14.2	3.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.58	J	0.71	0.073	mg/Kg	1	☼	6020B	Total/NA
Barium	2.0		1.4	0.10	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.2		1.4	0.65	mg/Kg	1	☼	6020B	Total/NA
Copper	1.3	J	1.4	0.26	mg/Kg	1	☼	6020B	Total/NA
Iron	1960		42.7	14.4	mg/Kg	1	☼	6020B	Total/NA
Lead	2.0		0.43	0.14	mg/Kg	1	☼	6020B	Total/NA
Magnesium	31.2	J	71.1	7.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.0		2.8	0.29	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.62	J	1.4	0.33	mg/Kg	1	☼	6020B	Total/NA
Potassium	49.3	J	71.1	11.5	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.12	J	0.89	0.091	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.5		1.4	0.15	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0085	J H	0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 4-04-CS-4 — Lab Sample ID: 460-319275-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.0071	0.0068	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00038	J	0.0012	0.00021	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00032	J	0.0012	0.00023	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1260		18.4	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.34	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	1.5	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.5		1.8	0.84	mg/Kg	1	☼	6020B	Total/NA
Copper	0.93	J	1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	1190		55.3	18.6	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 4-04-CS-4 (Continued) — Lab Sample ID: 460-319275-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.0		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	21.4	J	92.2	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.2	J	3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Potassium	20.8	J	92.2	14.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.9		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 4-04-CS-8 — Lab Sample ID: 460-319275-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.027		0.0062	0.0059	mg/Kg	1	☼	8260D	Total/NA
Aluminum	620		18.3	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.19	J	0.92	0.094	mg/Kg	1	☼	6020B	Total/NA
Barium	3.3		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.1		1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Copper	0.43	J	1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	1130		55.0	18.5	mg/Kg	1	☼	6020B	Total/NA
Lead	0.95		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.6	J	3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Potassium	20.3	J	91.7	14.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.1		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Cyanide, Total	1.1		0.24	0.13	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: 4-03-TS — Lab Sample ID: 460-319275-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetophenone	0.089	J H	0.34	0.017	mg/Kg	1	☼	8270E	Total/NA
Benzaldehyde	0.61	H	0.34	0.057	mg/Kg	1	☼	8270E	Total/NA
Total Aromatics	16		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	16		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	2.7	H	2.1	2.1	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	13	H	8.3	8.3	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	631		16.8	4.6	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.19	J	0.84	0.12	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.49	J	0.84	0.086	mg/Kg	1	☼	6020B	Total/NA
Barium	3.7		1.7	0.12	mg/Kg	1	☼	6020B	Total/NA
Calcium	57.9	J	83.9	34.1	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.7		1.7	0.76	mg/Kg	1	☼	6020B	Total/NA
Copper	2.6		1.7	0.31	mg/Kg	1	☼	6020B	Total/NA
Iron	671		50.3	16.9	mg/Kg	1	☼	6020B	Total/NA
Lead	19.2		0.50	0.17	mg/Kg	1	☼	6020B	Total/NA
Magnesium	31.8	J	83.9	8.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.4	J	3.4	0.34	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.63	J	1.7	0.39	mg/Kg	1	☼	6020B	Total/NA
Potassium	40.8	J	83.9	13.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.16	J	1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.8		1.7	0.17	mg/Kg	1	☼	6020B	Total/NA
Zinc	3.7	J	6.7	2.6	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.016	J H	0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-CS-4 — Lab Sample ID: 460-319275-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Aromatics	14		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total Aliphatics	20		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	35		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C16-C21 Aliphatics	2.1	H	2.0	2.0	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C40 Aliphatics	18	H	7.1	7.1	mg/Kg	1	☼	NJDEP EPH	Total/NA
C10-C12 Aromatics	2.2	H	2.0	2.0	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	12	H	8.2	8.2	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	2690		15.4	4.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.50	J	0.77	0.079	mg/Kg	1	☼	6020B	Total/NA
Barium	1.9		1.5	0.11	mg/Kg	1	☼	6020B	Total/NA
Chromium	4.3		1.5	0.70	mg/Kg	1	☼	6020B	Total/NA
Copper	1.0	J	1.5	0.28	mg/Kg	1	☼	6020B	Total/NA
Iron	1540		46.1	15.5	mg/Kg	1	☼	6020B	Total/NA
Lead	1.5		0.46	0.15	mg/Kg	1	☼	6020B	Total/NA
Magnesium	31.4	J	76.9	7.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.9	J	3.1	0.31	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.73	J	1.5	0.36	mg/Kg	1	☼	6020B	Total/NA
Potassium	36.6	J	76.9	12.5	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.10	J	0.96	0.098	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.7		1.5	0.16	mg/Kg	1	☼	6020B	Total/NA
Cyanide, Total	0.18	J H	0.21	0.12	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: 4-03-CS-8 — Lab Sample ID: 460-319275-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.044	H	0.0063	0.0060	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1310		16.4	4.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.43	J	0.82	0.084	mg/Kg	1	☼	6020B	Total/NA
Barium	0.89	J	1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.4		1.6	0.74	mg/Kg	1	☼	6020B	Total/NA
Copper	0.76	J	1.6	0.30	mg/Kg	1	☼	6020B	Total/NA
Iron	1410		49.1	16.5	mg/Kg	1	☼	6020B	Total/NA
Lead	0.54		0.49	0.16	mg/Kg	1	☼	6020B	Total/NA
Magnesium	14.4	J	81.8	8.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	0.69	J	3.3	0.33	mg/Kg	1	☼	6020B	Total/NA
Potassium	29.6	J	81.8	13.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	4.1		1.6	0.17	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IB-01-TS — Lab Sample ID: 460-319275-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.099		0.021	0.020	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.0015	J	0.0034	0.00060	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00090	J	0.0034	0.00067	mg/Kg	1	☼	8260D	Total/NA
Benzo[b]fluoranthene	0.016	J	0.038	0.0098	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.018	J	0.38	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.016	J	0.38	0.0095	mg/Kg	1	☼	8270E	Total/NA
Total Aromatics	29		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	29		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	4.0		2.3	2.3	mg/Kg	1	☼	NJDEP EPH	Total/NA
C21-C36 Aromatic	26		9.2	9.2	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	398		20.5	5.6	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IB-01-TS (Continued) — Lab Sample ID: 460-319275-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.26	J	1.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.55	J	1.0	0.11	mg/Kg	1	☼	6020B	Total/NA
Barium	7.6		2.1	0.15	mg/Kg	1	☼	6020B	Total/NA
Calcium	1230		103	41.8	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.5	J	2.1	0.93	mg/Kg	1	☼	6020B	Total/NA
Copper	2.9		2.1	0.38	mg/Kg	1	☼	6020B	Total/NA
Iron	716		61.6	20.7	mg/Kg	1	☼	6020B	Total/NA
Lead	12.2		0.62	0.21	mg/Kg	1	☼	6020B	Total/NA
Magnesium	107		103	10.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	38.9		4.1	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.80	J	2.1	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	112		103	16.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.17	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.5		2.1	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	8.0	J	8.2	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.023		0.020	0.0092	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IB-01-CS — Lab Sample ID: 460-319275-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011		0.0074	0.0071	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00046	J	0.0012	0.00022	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00036	J	0.0012	0.00024	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1380		18.4	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.48	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	1.7	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	45.0	J	91.8	37.4	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.2		1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Copper	0.87	J	1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	1490		55.1	18.5	mg/Kg	1	☼	6020B	Total/NA
Lead	2.1		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	50.6	J	91.8	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.4		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.46	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	33.1	J	91.8	14.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.5		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: Dup-04 — Lab Sample ID: 460-319275-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.0074	0.0071	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00068	J	0.0012	0.00021	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00049	J	0.0012	0.00024	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1320		17.7	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.51	J	0.89	0.091	mg/Kg	1	☼	6020B	Total/NA
Barium	1.7	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	44.4	J	88.5	36.0	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.1		1.8	0.80	mg/Kg	1	☼	6020B	Total/NA
Copper	0.89	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	1370		53.1	17.9	mg/Kg	1	☼	6020B	Total/NA
Lead	2.1		0.53	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	47.9	J	88.5	9.0	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Dup-04 (Continued) — Lab Sample ID: 460-319275-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	4.3		3.5	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.44	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	30.7	J	88.5	14.3	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.3		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IB-05-CS-4 — Lab Sample ID: 460-319275-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0099	H	0.0063	0.0060	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1570	F2 F1	16.3	4.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.46	J F1	0.82	0.084	mg/Kg	1	☼	6020B	Total/NA
Barium	1.8		1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.4	F1	1.6	0.74	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.13	J F1	1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Copper	0.85	J F1	1.6	0.30	mg/Kg	1	☼	6020B	Total/NA
Iron	1310	F2 F1	49.0	16.5	mg/Kg	1	☼	6020B	Total/NA
Lead	1.3		0.49	0.16	mg/Kg	1	☼	6020B	Total/NA
Magnesium	80.8	J	81.6	8.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.8	F1	3.3	0.33	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.61	J F1	1.6	0.38	mg/Kg	1	☼	6020B	Total/NA
Potassium	51.0	J	81.6	13.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.9	F1	1.6	0.17	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IB-05-CS-8 — Lab Sample ID: 460-319275-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1440		15.2	4.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.35	J	0.76	0.078	mg/Kg	1	☼	6020B	Total/NA
Barium	3.3		1.5	0.11	mg/Kg	1	☼	6020B	Total/NA
Calcium	32.5	J	75.9	30.9	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.7		1.5	0.69	mg/Kg	1	☼	6020B	Total/NA
Copper	0.93	J	1.5	0.28	mg/Kg	1	☼	6020B	Total/NA
Iron	1120		45.5	15.3	mg/Kg	1	☼	6020B	Total/NA
Lead	1.2		0.46	0.15	mg/Kg	1	☼	6020B	Total/NA
Magnesium	27.6	J	75.9	7.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.5	J	3.0	0.31	mg/Kg	1	☼	6020B	Total/NA
Potassium	55.2	J	75.9	12.3	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.6		1.5	0.16	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IB-04-CS-4 — Lab Sample ID: 460-319275-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0092		0.0068	0.0065	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00030	J	0.0011	0.00020	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00025	J	0.0011	0.00022	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1880	F1	20.3	5.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.56	J	1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	2.0		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.8		2.0	0.92	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.22	J	2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	1.1	J	2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	1910		60.9	20.5	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IB-04-CS-4 (Continued) — Lab Sample ID: 460-319275-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.9		0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	45.6	J	101	10.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	14.0		4.1	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.58	J	2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	36.9	J	101	16.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	4.2		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.011	J	0.017	0.0080	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IB-04-CS-8 — Lab Sample ID: 460-319275-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.016		0.0061	0.0058	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1540		17.9	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.1		0.90	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	1.1	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	4.1		1.8	0.81	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.18	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	1.1	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	3730		53.8	18.1	mg/Kg	1	☼	6020B	Total/NA
Lead	0.79		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	20.6	J	89.7	9.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	10		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.46	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	36.7	J	89.7	14.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.8		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IB-06-TS — Lab Sample ID: 460-319275-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0089	J H	0.35	0.0060	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.020	J H	0.35	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	368		20.0	5.5	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.27	J	1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	5.8		2.0	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	284		99.9	40.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.0	J	2.0	0.91	mg/Kg	1	☼	6020B	Total/NA
Copper	1.7	J	2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	417		59.9	20.2	mg/Kg	1	☼	6020B	Total/NA
Lead	7.0		0.60	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	61.2	J	99.9	10.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	14.5		4.0	0.40	mg/Kg	1	☼	6020B	Total/NA
Potassium	46.1	J	99.9	16.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.0		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.011	J H	0.016	0.0077	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IB-06-CS-4 — Lab Sample ID: 460-319275-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1020		15.4	4.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.28	J	0.77	0.079	mg/Kg	1	☼	6020B	Total/NA
Barium	1.5		1.5	0.11	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.6		1.5	0.70	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IB-06-CS-4 (Continued) — Lab Sample ID: 460-319275-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.54	J	1.5	0.28	mg/Kg	1	☼	6020B	Total/NA
Iron	942		46.1	15.5	mg/Kg	1	☼	6020B	Total/NA
Lead	1.3		0.46	0.15	mg/Kg	1	☼	6020B	Total/NA
Magnesium	22.2	J	76.8	7.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.6	J	3.1	0.31	mg/Kg	1	☼	6020B	Total/NA
Potassium	29.0	J	76.8	12.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.3		1.5	0.16	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0083	J H	0.016	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IB-06-CS-8 — Lab Sample ID: 460-319275-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.035	H	0.0068	0.0065	mg/Kg	1	☼	8260D	Total/NA
Aluminum	651		17.5	4.8	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.16	J	0.87	0.090	mg/Kg	1	☼	6020B	Total/NA
Barium	0.97	J	1.7	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.8		1.7	0.79	mg/Kg	1	☼	6020B	Total/NA
Copper	0.42	J	1.7	0.32	mg/Kg	1	☼	6020B	Total/NA
Iron	418		52.5	17.7	mg/Kg	1	☼	6020B	Total/NA
Lead	0.62		0.52	0.17	mg/Kg	1	☼	6020B	Total/NA
Magnesium	9.3	J	87.4	8.9	mg/Kg	1	☼	6020B	Total/NA
Manganese	1.1	J	3.5	0.35	mg/Kg	1	☼	6020B	Total/NA
Potassium	22.4	J	87.4	14.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	1.6	J	1.7	0.18	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: Dup-05 — Lab Sample ID: 460-319275-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.030	H	0.0069	0.0066	mg/Kg	1	☼	8260D	Total/NA
Aluminum	831		19.0	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.21	J	0.95	0.098	mg/Kg	1	☼	6020B	Total/NA
Barium	0.95	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.7		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Copper	0.60	J	1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	585		56.9	19.2	mg/Kg	1	☼	6020B	Total/NA
Lead	0.90		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	15.0	J	94.9	9.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	0.76	J	3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Potassium	27.1	J	94.9	15.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.2		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IB-02-TS — Lab Sample ID: 460-319275-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.028		0.0066	0.0063	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00057	J	0.0011	0.00019	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00053	J	0.0011	0.00021	mg/Kg	1	☼	8260D	Total/NA
Aluminum	393		18.8	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.35	J	0.94	0.097	mg/Kg	1	☼	6020B	Total/NA
Barium	2.0		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	74.8	J	93.9	38.2	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.2	J	1.9	0.85	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IB-02-TS (Continued) — Lab Sample ID: 460-319275-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.90	J	1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	449		56.3	19.0	mg/Kg	1	☼	6020B	Total/NA
Lead	6.2		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	21.1	J	93.9	9.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.2	J	3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Potassium	20.0	J	93.9	15.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.3		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: IB-02-CS — Lab Sample ID: 460-319275-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.018		0.0058	0.0055	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00017	J	0.00096	0.00017	mg/Kg	1	☼	8260D	Total/NA
Di-n-butyl phthalate	0.019	J	0.33	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	2940		17.9	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.47	J	0.90	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	3.7		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.0		1.8	0.81	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.19	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	1.1	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	1760		53.8	18.1	mg/Kg	1	☼	6020B	Total/NA
Lead	2.2		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	112		89.6	9.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	5.2		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.1	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	80.4	J	89.6	14.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.2		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.010	J	0.015	0.0071	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IB-03-TS — Lab Sample ID: 460-319275-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetophenone	0.019	J H	0.35	0.017	mg/Kg	1	☼	8270E	Total/NA
Benzaldehyde	0.22	J H	0.35	0.058	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.039	H	0.035	0.027	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.031	J H	0.035	0.0094	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.068	H	0.035	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.035	J H	0.35	0.010	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.020	J H	0.035	0.0069	mg/Kg	1	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	0.15	J H	0.35	0.019	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.051	J H	0.35	0.015	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.087	J H	0.35	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J H	0.035	0.014	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.0092	J H	0.35	0.0061	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.028	J H	0.35	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.058	J H	0.35	0.0088	mg/Kg	1	☼	8270E	Total/NA
Total Aliphatics	15		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	15		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C21-C40 Aliphatics	15	H	7.5	7.5	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	2190		19.3	5.3	mg/Kg	1	☼	6020B	Total/NA
Antimony	0.19	J	0.97	0.14	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.2		0.97	0.099	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IB-03-TS (Continued) — Lab Sample ID: 460-319275-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	11.4		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	487		96.6	39.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	4.1		1.9	0.88	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.23	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	4.9		1.9	0.36	mg/Kg	1	☼	6020B	Total/NA
Iron	2530		58.0	19.5	mg/Kg	1	☼	6020B	Total/NA
Lead	22.2		0.58	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	122		96.6	9.9	mg/Kg	1	☼	6020B	Total/NA
Manganese	6.3		3.9	0.39	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.6	J	1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	122		96.6	15.6	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.24	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.0		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA
Zinc	9.6		7.7	2.9	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.045	H	0.018	0.0086	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: IB-03-CS — Lab Sample ID: 460-319275-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1570		17.3	4.7	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.50	J	0.86	0.089	mg/Kg	1	☼	6020B	Total/NA
Barium	1.8		1.7	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.6		1.7	0.78	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.23	J	1.7	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	1.0	J	1.7	0.32	mg/Kg	1	☼	6020B	Total/NA
Iron	1430		51.8	17.4	mg/Kg	1	☼	6020B	Total/NA
Lead	1.5		0.52	0.17	mg/Kg	1	☼	6020B	Total/NA
Magnesium	35.6	J	86.3	8.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	6.6		3.5	0.35	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.60	J	1.7	0.41	mg/Kg	1	☼	6020B	Total/NA
Potassium	31.1	J	86.3	14.0	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.0		1.7	0.18	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2B-02-TS — Lab Sample ID: 460-319275-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.023		0.0071	0.0068	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00076	J	0.0012	0.00021	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00056	J	0.0012	0.00023	mg/Kg	1	☼	8260D	Total/NA
Total Aromatics	3.8		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	3.8		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	3.8		2.1	2.1	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	392		19.3	5.3	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.26	J	0.96	0.099	mg/Kg	1	☼	6020B	Total/NA
Barium	2.3		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	66.0	J	96.3	39.2	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.0	J	1.9	0.87	mg/Kg	1	☼	6020B	Total/NA
Copper	1.2	J	1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	319		57.8	19.5	mg/Kg	1	☼	6020B	Total/NA
Lead	4.0		0.58	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	21.5	J	96.3	9.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.7	J	3.9	0.39	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2B-02-TS (Continued) — Lab Sample ID: 460-319275-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	18.5	J	96.3	15.6	mg/Kg	1	☼	6020B	Total/NA
Vanadium	1.7	J	1.9	0.20	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2B-02-CS — Lab Sample ID: 460-319275-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014		0.0066	0.0063	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00020	J	0.0011	0.00019	mg/Kg	1	☼	8260D	Total/NA
Aluminum	15900		18.5	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	3.2		0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	9.9		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.11	J	0.37	0.053	mg/Kg	1	☼	6020B	Total/NA
Chromium	15.6		1.8	0.84	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.66	J	1.8	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	7.4		1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	9040		55.5	18.7	mg/Kg	1	☼	6020B	Total/NA
Lead	2.9		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	158		92.5	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	6.2		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	4.1		1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	197		92.5	15.0	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.26	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.042	J	0.37	0.038	mg/Kg	1	☼	6020B	Total/NA
Vanadium	20.0		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	4.9	J	7.4	2.8	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.019		0.017	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2B-01-TS — Lab Sample ID: 460-319275-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.0013	H	0.0011	0.0011	mg/Kg	1	☼	8260D	Total/NA
Naphthalene	0.010	J H	0.34	0.0059	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.025	J H	0.34	0.014	mg/Kg	1	☼	8270E	Total/NA
Aluminum	766		18.7	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.56	J	0.94	0.096	mg/Kg	1	☼	6020B	Total/NA
Barium	5.4		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	119		93.6	38.1	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.6	J	1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Copper	3.0		1.9	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	642		56.2	18.9	mg/Kg	1	☼	6020B	Total/NA
Lead	13.8		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	32.0	J	93.6	9.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.2	J	3.7	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.54	J	1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	36.3	J	93.6	15.2	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.16	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.2		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Cyanide, Total	0.14	J H	0.25	0.13	mg/Kg	1	☼	9012B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2B-01-CS — Lab Sample ID: 460-319275-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7510		19.0	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.2		0.95	0.098	mg/Kg	1	☼	6020B	Total/NA
Barium	3.6		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	8.1		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.20	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	2.9		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	3890		57.1	19.2	mg/Kg	1	☼	6020B	Total/NA
Lead	1.8		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	56.4	J	95.2	9.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	2.2	J	3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.7	J	1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	71.4	J	95.2	15.4	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.15	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Vanadium	9.5		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.033	H	0.016	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2A-05-TS — Lab Sample ID: 460-319275-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.035		0.0058	0.0055	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00022	J	0.00096	0.00017	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1160		18.8	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.59	J	0.94	0.097	mg/Kg	1	☼	6020B	Total/NA
Barium	1.9		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.1		1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Copper	1.2	J	1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	1870		56.5	19.0	mg/Kg	1	☼	6020B	Total/NA
Lead	4.6		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	33.6	J	94.1	9.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.5		3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Potassium	27.3	J	94.1	15.2	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.0		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-05-CS-4 — Lab Sample ID: 460-319275-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.068		0.0077	0.0074	mg/Kg	1	☼	8260D	Total/NA
Aluminum	4140		18.0	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.1		0.90	0.093	mg/Kg	1	☼	6020B	Total/NA
Barium	4.2		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.2		1.8	0.82	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.43	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	2.2		1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	3660		54.1	18.2	mg/Kg	1	☼	6020B	Total/NA
Lead	3.0		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	109		90.1	9.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	11.0		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.4	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	129		90.1	14.6	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.1		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2A-05-CS-8 — Lab Sample ID: 460-319275-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.031		0.0064	0.0061	mg/Kg	1	☼	8260D	Total/NA
Di-n-butyl phthalate	0.020	J	0.33	0.013	mg/Kg	1	☼	8270E	Total/NA
Aluminum	2450		17.9	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.70	J	0.90	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	2.4		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	4.1		1.8	0.81	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.20	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	1.6	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	2390		53.8	18.1	mg/Kg	1	☼	6020B	Total/NA
Lead	1.8		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	53.9	J	89.7	9.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.6		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.76	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	74.2	J	89.7	14.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	4.5		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-06-CS-4 — Lab Sample ID: 460-319275-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010	H	0.0053	0.0050	mg/Kg	1	☼	8260D	Total/NA
Chloroform	0.0026	H	0.00088	0.00086	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]pyrene	0.013	J H	0.033	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.015	J H	0.033	0.0086	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.016	J H	0.33	0.0098	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.016	J H	0.33	0.012	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.014	J H	0.33	0.014	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.015	J H	0.33	0.0083	mg/Kg	1	☼	8270E	Total/NA
Aluminum	4090		15.9	4.4	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.0		0.79	0.082	mg/Kg	1	☼	6020B	Total/NA
Barium	4.3		1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.8		1.6	0.72	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.33	J	1.6	0.12	mg/Kg	1	☼	6020B	Total/NA
Copper	2.2		1.6	0.29	mg/Kg	1	☼	6020B	Total/NA
Iron	3670		47.6	16.0	mg/Kg	1	☼	6020B	Total/NA
Lead	3.0		0.48	0.16	mg/Kg	1	☼	6020B	Total/NA
Magnesium	107		79.4	8.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	7.6		3.2	0.32	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.4	J	1.6	0.37	mg/Kg	1	☼	6020B	Total/NA
Potassium	106		79.4	12.9	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.11	J	0.99	0.10	mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.4		1.6	0.16	mg/Kg	1	☼	6020B	Total/NA
Cyanide, Total	0.43	H	0.24	0.13	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: 2A-06-CS-8 — Lab Sample ID: 460-319275-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1860		16.9	4.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.61	J	0.85	0.087	mg/Kg	1	☼	6020B	Total/NA
Barium	2.0		1.7	0.12	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.7		1.7	0.77	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.18	J	1.7	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	1.1	J	1.7	0.31	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2A-06-CS-8 (Continued) — Lab Sample ID: 460-319275-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2080		50.8	17.1	mg/Kg	1	☼	6020B	Total/NA
Lead	1.1		0.51	0.17	mg/Kg	1	☼	6020B	Total/NA
Magnesium	43.5	J	84.7	8.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.5		3.4	0.34	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.60	J	1.7	0.40	mg/Kg	1	☼	6020B	Total/NA
Potassium	59.1	J	84.7	13.7	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.9		1.7	0.17	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-07-TS — Lab Sample ID: 460-319275-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.061		0.0060	0.0057	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00037	J	0.0010	0.00017	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]pyrene	0.012	J	0.033	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.012	J	0.033	0.0086	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.013	J	0.033	0.0065	mg/Kg	1	☼	8270E	Total/NA
Diethyl phthalate	0.011	J	0.33	0.011	mg/Kg	1	☼	8270E	Total/NA
Di-n-butyl phthalate	0.021	J	0.33	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.013	J	0.33	0.012	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.014	J	0.033	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.014	J	0.33	0.0083	mg/Kg	1	☼	8270E	Total/NA
Aluminum	415		18.4	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.32	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	1.8		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Calcium	72.7	J	91.8	37.3	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.3	J	1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Copper	0.97	J	1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	534		55.1	18.5	mg/Kg	1	☼	6020B	Total/NA
Lead	6.8		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	23.4	J	91.8	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.0		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Potassium	23.1	J	91.8	14.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.7		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-07-CS-4 — Lab Sample ID: 460-319275-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.015		0.0062	0.0059	mg/Kg	1	☼	8260D	Total/NA
m-Xylene & p-Xylene	0.00018	J	0.0010	0.00018	mg/Kg	1	☼	8260D	Total/NA
Aluminum	5330		18.7	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.2		0.94	0.096	mg/Kg	1	☼	6020B	Total/NA
Barium	4.3		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	7.5		1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.42	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	2.7		1.9	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	4290		56.1	18.9	mg/Kg	1	☼	6020B	Total/NA
Lead	3.0		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	119		93.5	9.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	8.8		3.7	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.9		1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	129		93.5	15.2	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.13	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2A-07-CS-4 (Continued) — Lab Sample ID: 460-319275-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	8.5		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	2.9	J	7.5	2.9	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.0086	J	0.015	0.0072	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2A-07-CS-8 — Lab Sample ID: 460-319275-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.030		0.0066	0.0063	mg/Kg	1	☼	8260D	Total/NA
Aluminum	1480		18.4	5.0	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.39	J	0.92	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	1.6	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.3		1.8	0.83	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.20	J	1.8	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	0.99	J	1.8	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	1220		55.2	18.6	mg/Kg	1	☼	6020B	Total/NA
Lead	1.2		0.55	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	31.1	J	91.9	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.0		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.58	J	1.8	0.43	mg/Kg	1	☼	6020B	Total/NA
Potassium	47.0	J	91.9	14.9	mg/Kg	1	☼	6020B	Total/NA
Vanadium	2.4		1.8	0.19	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: FB-20250124

Date Collected: 01/24/25 12:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/28/25 13:15	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/28/25 13:15	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/28/25 13:15	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/28/25 13:15	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/28/25 13:15	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/28/25 13:15	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/28/25 13:15	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/28/25 13:15	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/28/25 13:15	1
1,4-Dioxane	28	U	50	28	ug/L			01/28/25 13:15	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/28/25 13:15	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/28/25 13:15	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/28/25 13:15	1
Acetone	4.4	U	5.0	4.4	ug/L			01/28/25 13:15	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/28/25 13:15	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/28/25 13:15	1
Benzene	0.20	U	1.0	0.20	ug/L			01/28/25 13:15	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/28/25 13:15	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/28/25 13:15	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/28/25 13:15	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/28/25 13:15	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/28/25 13:15	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/28/25 13:15	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/28/25 13:15	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/28/25 13:15	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/28/25 13:15	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/28/25 13:15	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/28/25 13:15	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/28/25 13:15	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/28/25 13:15	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/28/25 13:15	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/28/25 13:15	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/28/25 13:15	1
Methylene Chloride	**0.44**	**J**	1.0	0.32	ug/L			01/28/25 13:15	1
Styrene	0.42	U	1.0	0.42	ug/L			01/28/25 13:15	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/28/25 13:15	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/28/25 13:15	1
Toluene	0.38	U	1.0	0.38	ug/L			01/28/25 13:15	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/28/25 13:15	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/28/25 13:15	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/28/25 13:15	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/28/25 13:15	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/28/25 13:15	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/28/25 13:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/28/25 13:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 128*		*01/28/25 13:15*	*1*

Client Sample ID: FB-20250124
Date Collected: 01/24/25 12:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*76 - 120*		*01/28/25 13:15*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 132*		*01/28/25 13:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/28/25 13:15*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		01/26/25 10:51	01/26/25 16:03	1
1,2,4-Trichlorobenzene	0.64	U	2.0	0.64	ug/L		01/26/25 10:51	01/26/25 16:03	1
1,2-Dichlorobenzene	0.50	U	10	0.50	ug/L		01/26/25 10:51	01/26/25 16:03	1
1,2-Diphenylhydrazine	0.79	U	10	0.79	ug/L		01/26/25 10:51	01/26/25 16:03	1
1,3-Dichlorobenzene	2.0	U	10	2.0	ug/L		01/26/25 10:51	01/26/25 16:03	1
1,4-Dichlorobenzene	1.1	U	10	1.1	ug/L		01/26/25 10:51	01/26/25 16:03	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		01/26/25 10:51	01/26/25 16:03	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		01/26/25 10:51	01/26/25 16:03	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		01/26/25 10:51	01/26/25 16:03	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		01/26/25 10:51	01/26/25 16:03	1
2,4-Dinitrophenol	11	U	40	11	ug/L		01/26/25 10:51	01/26/25 16:03	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		01/26/25 10:51	01/26/25 16:03	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		01/26/25 10:51	01/26/25 16:03	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		01/26/25 10:51	01/26/25 16:03	1
2-Chlorophenol	0.95	U	10	0.95	ug/L		01/26/25 10:51	01/26/25 16:03	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		01/26/25 10:51	01/26/25 16:03	1
2-Methylphenol	0.67	U	10	0.67	ug/L		01/26/25 10:51	01/26/25 16:03	1
2-Nitroaniline	1.2	U	10	1.2	ug/L		01/26/25 10:51	01/26/25 16:03	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		01/26/25 10:51	01/26/25 16:03	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		01/26/25 10:51	01/26/25 16:03	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		01/26/25 10:51	01/26/25 16:03	1
4,6-Dinitro-2-methylphenol	8.6	U	20	8.6	ug/L		01/26/25 10:51	01/26/25 16:03	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		01/26/25 10:51	01/26/25 16:03	1
4-Chloro-3-methylphenol	1.3	U	10	1.3	ug/L		01/26/25 10:51	01/26/25 16:03	1
4-Chloroaniline	1.9	U	10	1.9	ug/L		01/26/25 10:51	01/26/25 16:03	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		01/26/25 10:51	01/26/25 16:03	1
4-Methylphenol	0.65	U	10	0.65	ug/L		01/26/25 10:51	01/26/25 16:03	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		01/26/25 10:51	01/26/25 16:03	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		01/26/25 10:51	01/26/25 16:03	1
Acenaphthene	1.1	U	10	1.1	ug/L		01/26/25 10:51	01/26/25 16:03	1
Acenaphthylene	0.82	U	10	0.82	ug/L		01/26/25 10:51	01/26/25 16:03	1
Acetophenone	2.3	U	10	2.3	ug/L		01/26/25 10:51	01/26/25 16:03	1
Anthracene	1.3	U	10	1.3	ug/L		01/26/25 10:51	01/26/25 16:03	1
Atrazine	1.3	U	2.0	1.3	ug/L		01/26/25 10:51	01/26/25 16:03	1
Benzaldehyde	2.1	U	10	2.1	ug/L		01/26/25 10:51	01/26/25 16:03	1
Benzidine	2.8	U	20	2.8	ug/L		01/26/25 10:51	01/26/25 16:03	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		01/26/25 10:51	01/26/25 16:03	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		01/26/25 10:51	01/26/25 16:03	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		01/26/25 10:51	01/26/25 16:03	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		01/26/25 10:51	01/26/25 16:03	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		01/26/25 10:51	01/26/25 16:03	1
bis (2-chloroisopropyl) ether	0.63	U	10	0.63	ug/L		01/26/25 10:51	01/26/25 16:03	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		01/26/25 10:51	01/26/25 16:03	1

Client Sample ID: FB-20250124
Date Collected: 01/24/25 12:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		01/26/25 10:51	01/26/25 16:03	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		01/26/25 10:51	01/26/25 16:03	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		01/26/25 10:51	01/26/25 16:03	1
Caprolactam	2.2	U	10	2.2	ug/L		01/26/25 10:51	01/26/25 16:03	1
Carbazole	0.68	U	10	0.68	ug/L		01/26/25 10:51	01/26/25 16:03	1
Chrysene	0.91	U	2.0	0.91	ug/L		01/26/25 10:51	01/26/25 16:03	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		01/26/25 10:51	01/26/25 16:03	1
Dibenzofuran	1.1	U	10	1.1	ug/L		01/26/25 10:51	01/26/25 16:03	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		01/26/25 10:51	01/26/25 16:03	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		01/26/25 10:51	01/26/25 16:03	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		01/26/25 10:51	01/26/25 16:03	1
Di-n-octyl phthalate	4.0	U	10	4.0	ug/L		01/26/25 10:51	01/26/25 16:03	1
Fluoranthene	0.84	U	10	0.84	ug/L		01/26/25 10:51	01/26/25 16:03	1
Fluorene	0.91	U	10	0.91	ug/L		01/26/25 10:51	01/26/25 16:03	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		01/26/25 10:51	01/26/25 16:03	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		01/26/25 10:51	01/26/25 16:03	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		01/26/25 10:51	01/26/25 16:03	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		01/26/25 10:51	01/26/25 16:03	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		01/26/25 10:51	01/26/25 16:03	1
Isophorone	0.80	U	10	0.80	ug/L		01/26/25 10:51	01/26/25 16:03	1
Naphthalene	0.54	U	2.0	0.54	ug/L		01/26/25 10:51	01/26/25 16:03	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		01/26/25 10:51	01/26/25 16:03	1
N-Nitrosodimethylamine	0.45	U	10	0.45	ug/L		01/26/25 10:51	01/26/25 16:03	1
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		01/26/25 10:51	01/26/25 16:03	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		01/26/25 10:51	01/26/25 16:03	1
Pentachlorophenol	6.6	U	20	6.6	ug/L		01/26/25 10:51	01/26/25 16:03	1
Phenanthrene	1.3	U	10	1.3	ug/L		01/26/25 10:51	01/26/25 16:03	1
Phenol	0.29	U	10	0.29	ug/L		01/26/25 10:51	01/26/25 16:03	1
Pyrene	1.6	U	10	1.6	ug/L		01/26/25 10:51	01/26/25 16:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*01/26/25 10:51*	*01/26/25 16:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*37 - 150*	*01/26/25 10:51*	*01/26/25 16:03*	*1*
2-Fluorobiphenyl	*66*		*46 - 139*	*01/26/25 10:51*	*01/26/25 16:03*	*1*
2-Fluorophenol (Surr)	*41*		*16 - 80*	*01/26/25 10:51*	*01/26/25 16:03*	*1*
Nitrobenzene-d5 (Surr)	*71*		*51 - 145*	*01/26/25 10:51*	*01/26/25 16:03*	*1*
Phenol-d5 (Surr)	*27*		*10 - 56*	*01/26/25 10:51*	*01/26/25 16:03*	*1*
Terphenyl-d14 (Surr)	*34*		*13 - 159*	*01/26/25 10:51*	*01/26/25 16:03*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:56	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/26/25 11:53	01/27/25 09:56	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/26/25 11:53	01/27/25 09:56	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/26/25 11:53	01/27/25 09:56	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/26/25 11:53	01/27/25 09:56	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/26/25 11:53	01/27/25 09:56	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/26/25 11:53	01/27/25 09:56	1

Client Sample ID: FB-20250124
Date Collected: 01/24/25 12:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-1
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:56	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:56	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/26/25 11:53	01/27/25 09:56	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:56	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/26/25 11:53	01/27/25 09:56	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:56	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/26/25 11:53	01/27/25 09:56	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/26/25 11:53	01/27/25 09:56	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:56	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/26/25 11:53	01/27/25 09:56	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:56	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/26/25 11:53	01/27/25 09:56	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/26/25 11:53	01/27/25 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*34 - 120*	*01/26/25 11:53*	*01/27/25 09:56*	*1*
Tetrachloro-m-xylene	*95*		*34 - 120*	*01/26/25 11:53*	*01/27/25 09:56*	*1*
DCB Decachlorobiphenyl	*79*		*30 - 131*	*01/26/25 11:53*	*01/27/25 09:56*	*1*
DCB Decachlorobiphenyl	*68*		*30 - 131*	*01/26/25 11:53*	*01/27/25 09:56*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:49	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:49	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:49	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:49	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:49	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:49	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:49	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:49	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:49	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*18 - 145*	*01/26/25 11:55*	*01/27/25 23:49*	*1*
DCB Decachlorobiphenyl	*60*		*18 - 145*	*01/26/25 11:55*	*01/27/25 23:49*	*1*
Tetrachloro-m-xylene	*83*		*21 - 124*	*01/26/25 11:55*	*01/27/25 23:49*	*1*
Tetrachloro-m-xylene	*81*		*21 - 124*	*01/26/25 11:55*	*01/27/25 23:49*	*1*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH (C9-C40)	0.40	U	0.40	0.40	mg/L		01/29/25 08:31	01/29/25 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*40 - 140*	*01/29/25 08:31*	*01/29/25 15:07*	*1*
1-Chlorooctadecane	*72*		*40 - 140*	*01/29/25 08:31*	*01/29/25 15:07*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		01/29/25 10:44	01/29/25 19:21	1
Antimony	0.76	U	2.0	0.76	ug/L		01/29/25 10:44	01/29/25 19:21	1

Client Sample ID: FB-20250124

Lab Sample ID: 460-319275-1

Date Collected: 01/24/25 12:00

Matrix: Water

Date Received: 01/24/25 17:40

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.89	U	2.0	0.89	ug/L		01/29/25 10:44	01/29/25 19:21	1
Barium	0.91	U	4.0	0.91	ug/L		01/29/25 10:44	01/29/25 19:21	1
Beryllium	0.13	U	0.80	0.13	ug/L		01/29/25 10:44	01/29/25 19:21	1
Cadmium	0.39	U	2.0	0.39	ug/L		01/29/25 10:44	01/29/25 19:21	1
Calcium	**57.2**	**J**	500	53.6	ug/L		01/29/25 10:44	01/30/25 14:18	1
Chromium	2.5	U	4.0	2.5	ug/L		01/29/25 10:44	01/29/25 19:21	1
Cobalt	0.71	U	4.0	0.71	ug/L		01/29/25 10:44	01/29/25 19:21	1
Copper	2.5	U	4.0	2.5	ug/L		01/29/25 10:44	01/29/25 19:21	1
Iron	58.2	U	120	58.2	ug/L		01/29/25 10:44	01/29/25 19:21	1
Lead	0.84	U	1.2	0.84	ug/L		01/29/25 10:44	01/29/25 19:21	1
Magnesium	46.9	U	200	46.9	ug/L		01/29/25 10:44	01/29/25 19:21	1
Manganese	1.5	U	8.0	1.5	ug/L		01/29/25 10:44	01/29/25 19:21	1
Nickel	0.91	U	4.0	0.91	ug/L		01/29/25 10:44	01/29/25 19:21	1
Potassium	112	U	200	112	ug/L		01/29/25 10:44	01/29/25 19:21	1
Selenium	0.59	U	2.5	0.59	ug/L		01/29/25 10:44	01/29/25 19:21	1
Silver	0.29	U	2.0	0.29	ug/L		01/29/25 10:44	01/29/25 19:21	1
Sodium	219	U	500	219	ug/L		01/29/25 10:44	01/30/25 14:18	1
Thallium	0.21	U	0.80	0.21	ug/L		01/29/25 10:44	01/29/25 19:21	1
Vanadium	0.68	U	4.0	0.68	ug/L		01/29/25 10:44	01/29/25 19:21	1
Zinc	6.5	U	16.0	6.5	ug/L		01/29/25 10:44	01/29/25 19:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/25 11:28	01/27/25 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0040	U	0.010	0.0040	mg/L		01/30/25 09:24	01/30/25 12:49	1

Client Sample ID: Trip Blank

Lab Sample ID: 460-319275-2

Date Collected: 01/24/25 15:10

Matrix: Water

Date Received: 01/24/25 17:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/28/25 22:37	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/28/25 22:37	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/28/25 22:37	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/28/25 22:37	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/28/25 22:37	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/28/25 22:37	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/28/25 22:37	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/28/25 22:37	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/28/25 22:37	1
1,4-Dioxane	28	U	50	28	ug/L			01/28/25 22:37	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/28/25 22:37	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/28/25 22:37	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/28/25 22:37	1
Acetone	4.4	U	5.0	4.4	ug/L			01/28/25 22:37	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/28/25 22:37	1

Client Sample ID: Trip Blank

Lab Sample ID: 460-319275-2

Date Collected: 01/24/25 15:10

Matrix: Water

Date Received: 01/24/25 17:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/28/25 22:37	1
Benzene	0.20	U	1.0	0.20	ug/L			01/28/25 22:37	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/28/25 22:37	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/28/25 22:37	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/28/25 22:37	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/28/25 22:37	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/28/25 22:37	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/28/25 22:37	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/28/25 22:37	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/28/25 22:37	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/28/25 22:37	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/28/25 22:37	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/28/25 22:37	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/28/25 22:37	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/28/25 22:37	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/28/25 22:37	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/28/25 22:37	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/28/25 22:37	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/28/25 22:37	1
Styrene	0.42	U	1.0	0.42	ug/L			01/28/25 22:37	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/28/25 22:37	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/28/25 22:37	1
Toluene	0.38	U	1.0	0.38	ug/L			01/28/25 22:37	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/28/25 22:37	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/28/25 22:37	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/28/25 22:37	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/28/25 22:37	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/28/25 22:37	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/28/25 22:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/28/25 22:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 128*		*01/28/25 22:37*	*1*
4-Bromofluorobenzene	*117*		*76 - 120*		*01/28/25 22:37*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 132*		*01/28/25 22:37*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/28/25 22:37*	*1*

Client Sample ID: 4-01-TS

Lab Sample ID: 460-319275-3

Date Collected: 01/23/25 15:30

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,1,2-Trichloroethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,1-Dichloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1

Client Sample ID: 4-01-TS
Date Collected: 01/23/25 15:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-3
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,2,3-Trichlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,2,4-Trichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,2-Dibromo-3-Chloropropane	0.00050	U H *-	0.0011	0.00050	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,2-Dibromoethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,2-Dichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,2-Dichloroethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,2-Dichloropropane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,3-Dichlorobenzene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
1,4-Dichlorobenzene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
2-Butanone (MEK)	0.00040	U H	0.0055	0.00040	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
2-Hexanone	0.0019	U H	0.0055	0.0019	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
4-Methyl-2-pentanone (MIBK)	0.0017	U H	0.0055	0.0017	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Acetone	0.0063	U H	0.0066	0.0063	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Benzene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Bromodichloromethane	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Bromoform	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Bromomethane	0.0011	U H *+	0.0022	0.0011	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Carbon disulfide	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Carbon tetrachloride	0.00042	U H	0.0011	0.00042	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Chlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Chlorobromomethane	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Chloroethane	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Chloroform	0.0011	U H	0.0011	0.0011	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Chloromethane	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
cis-1,2-Dichloroethene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
cis-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Cyclohexane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Dibromochloromethane	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Dichlorodifluoromethane	0.00037	U H	0.0011	0.00037	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Ethylbenzene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Isopropylbenzene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Methyl acetate	0.0047	U H	0.0055	0.0047	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Methyl tert-butyl ether	0.00056	U H	0.0011	0.00056	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Methylcyclohexane	0.00055	U H	0.0011	0.00055	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Methylene Chloride	0.0013	U H	0.0022	0.0013	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
m-Xylene & p-Xylene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
o-Xylene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Styrene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Tetrachloroethene	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Toluene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
trans-1,2-Dichloroethene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
trans-1,3-Dichloropropene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Trichloroethene	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Trichlorofluoromethane	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1
Vinyl chloride	0.00060	U H	0.0011	0.00060	mg/Kg	☼	01/25/25 11:05	03/06/25 08:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:05*	*03/06/25 08:54*	*1*

Client Sample ID: 4-01-TS

Date Collected: 01/23/25 15:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-3

Matrix: Solid
Percent Solids: 99.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*	*01/25/25 11:05*	*03/06/25 08:54*	*1*
4-Bromofluorobenzene	*101*		*71 - 128*	*01/25/25 11:05*	*03/06/25 08:54*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*01/25/25 11:05*	*03/06/25 08:54*	*1*
Toluene-d8 (Surr)	*108*		*71 - 126*	*01/25/25 11:05*	*03/06/25 08:54*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
1,2,4-Trichlorobenzene	0.0085	U H	0.033	0.0085	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
1,2-Dichlorobenzene	0.0056	U H	0.33	0.0056	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2,4,6-Trichlorophenol	0.042	U H	0.13	0.042	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2,4-Dimethylphenol	0.039	U H	0.33	0.039	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Acenaphthene	0.0094	U H	0.33	0.0094	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Atrazine	0.019	U H	0.13	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Benzidine	0.069	U H *+	0.33	0.069	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Benzo[a]pyrene	0.0088	U H	0.033	0.0088	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1

Client Sample ID: 4-01-TS
Date Collected: 01/23/25 15:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-3
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Bis(2-ethylhexyl) phthalate	0.017	U H	0.33	0.017	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Dimethyl phthalate	0.075	U H	0.33	0.075	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Di-n-butyl phthalate	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Hexachlorobutadiene	0.0070	U H	0.067	0.0070	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Naphthalene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1
Pyrene	0.0082	U H	0.33	0.0082	mg/Kg	☼	03/04/25 08:46	03/04/25 23:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.31*	*A H J*	*mg/Kg*	☼	*2.61*	*N/A*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
Benzeneacetic acid	*0.48*	*H J N*	*mg/Kg*	☼	*5.67*	*103-82-2*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
Unknown	*0.37*	*H J*	*mg/Kg*	☼	*11.06*	*N/A*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
1-Docosene	*0.72*	*H J N*	*mg/Kg*	☼	*11.90*	*1599-67-3*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
Unknown	*0.31*	*H J*	*mg/Kg*	☼	*13.82*	*N/A*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
2,2,4a,6a,8a,9,12b,14a-Octamethyl-1,2,3,4,4a,5,6,6a,6b,7,8,8	*1.7*	*H J N*	*mg/Kg*	☼	*14.88*	*53013-35-7*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
Unknown	*0.99*	*H J*	*mg/Kg*	☼	*15.22*	*N/A*	*03/04/25 08:46*	*03/04/25 23:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*24 - 137*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
2-Fluorobiphenyl	*59*		*38 - 128*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
2-Fluorophenol (Surr)	*67*		*31 - 133*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
Nitrobenzene-d5 (Surr)	*59*		*31 - 120*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
Phenol-d5 (Surr)	*72*		*35 - 132*	*03/04/25 08:46*	*03/04/25 23:22*	*1*
Terphenyl-d14 (Surr)	*58*		*44 - 147*	*03/04/25 08:46*	*03/04/25 23:22*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-01-TS

Date Collected: 01/23/25 15:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-3

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*17 - 150*	*03/05/25 17:24*	*03/06/25 04:42*	*1*
DCB Decachlorobiphenyl	*59*		*17 - 150*	*03/05/25 17:24*	*03/06/25 04:42*	*1*
Tetrachloro-m-xylene	*97*		*21 - 150*	*03/05/25 17:24*	*03/06/25 04:42*	*1*
Tetrachloro-m-xylene	*92*		*21 - 150*	*03/05/25 17:24*	*03/06/25 04:42*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*20 - 150*	*03/05/25 17:15*	*03/06/25 09:23*	*1*
DCB Decachlorobiphenyl	*67*		*20 - 150*	*03/05/25 17:15*	*03/06/25 09:23*	*1*
Tetrachloro-m-xylene	*92*		*20 - 150*	*03/05/25 17:15*	*03/06/25 09:23*	*1*
Tetrachloro-m-xylene	*121*		*20 - 150*	*03/05/25 17:15*	*03/06/25 09:23*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1

Client Sample ID: 4-01-TS
Date Collected: 01/23/25 15:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-3
Matrix: Solid
Percent Solids: 99.6

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/07/25 14:06	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/07/25 14:06	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/07/25 14:06	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 10:35	03/07/25 14:06	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:51	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:51	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:51	1
C21-C36 Aromatic	8.0	U H	8.0	8.0	mg/Kg	☼	03/06/25 10:35	03/06/25 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:51*	*1*
2-Fluorobiphenyl	*76*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:51*	*1*
2-Bromonaphthalene	*80*		*40 - 140*	*03/06/25 10:35*	*03/06/25 22:51*	*1*
1-Chlorooctadecane	*71*		*40 - 140*	*03/06/25 10:35*	*03/07/25 14:06*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**300**		16.9	4.6	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Antimony	0.12	U	0.84	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Arsenic	**0.27**	**J**	0.84	0.087	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Barium	**1.9**		1.7	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Beryllium	0.048	U	0.34	0.048	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Cadmium	0.095	U	0.84	0.095	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Calcium	**52.6**	**J**	84.4	34.3	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Chromium	**1.2**	**J**	1.7	0.77	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Cobalt	0.12	U	1.7	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Copper	**1.3**	**J**	1.7	0.31	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Iron	**335**		50.6	17.0	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Lead	**8.9**		0.51	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Magnesium	**13.8**	**J**	84.4	8.6	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Manganese	**1.8**	**J**	3.4	0.34	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Nickel	0.40	U	1.7	0.40	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Potassium	**16.2**	**J**	84.4	13.7	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Silver	0.075	U	0.34	0.075	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Sodium	38.6	U	84.4	38.6	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Thallium	0.035	U	0.34	0.035	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Vanadium	**1.9**		1.7	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1
Zinc	2.6	U	6.8	2.6	mg/Kg	☼	03/07/25 12:53	03/08/25 11:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0071	U H	0.015	0.0071	mg/Kg	☼	03/05/25 01:20	03/05/25 07:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 15:56	1

Client Sample ID: 4-01-TS

Lab Sample ID: 460-319275-3
Date Collected: 01/23/25 15:30
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 10:21	1
Percent Solids (EPA Moisture)	**99.6**		1.0	1.0	%			01/27/25 10:21	1

Client Sample ID: 4-01-CS

Lab Sample ID: 460-319275-4
Date Collected: 01/23/25 15:40
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,1,2,2-Tetrachloroethane	0.00025	U H	0.0012	0.00025	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,1,2-Trichloroethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,1-Dichloroethane	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,1-Dichloroethene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,2,3-Trichlorobenzene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,2,4-Trichlorobenzene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,2-Dibromo-3-Chloropropane	0.00054	U H *-	0.0012	0.00054	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,2-Dibromoethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,2-Dichlorobenzene	0.00043	U H	0.0012	0.00043	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,2-Dichloroethane	0.00035	U H	0.0012	0.00035	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,2-Dichloropropane	0.00050	U H	0.0012	0.00050	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,3-Dichlorobenzene	0.00043	U H	0.0012	0.00043	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
1,4-Dichlorobenzene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
2-Butanone (MEK)	0.00044	U H	0.0059	0.00044	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
2-Hexanone	0.0020	U H	0.0059	0.0020	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
4-Methyl-2-pentanone (MIBK)	0.0018	U H	0.0059	0.0018	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Acetone	0.0068	U H	0.0071	0.0068	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Benzene	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Bromodichloromethane	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Bromoform	0.00050	U H	0.0012	0.00050	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Bromomethane	0.0012	U H *+	0.0024	0.0012	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Carbon disulfide	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Carbon tetrachloride	0.00046	U H	0.0012	0.00046	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Chlorobenzene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Chlorobromomethane	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Chloroethane	0.00062	U H	0.0012	0.00062	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Chloroform	0.0011	U H	0.0012	0.0011	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Chloromethane	0.00051	U H	0.0012	0.00051	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
cis-1,2-Dichloroethene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
cis-1,3-Dichloropropene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Cyclohexane	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Dibromochloromethane	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Dichlorodifluoromethane	0.00040	U H	0.0012	0.00040	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Ethylbenzene	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Isopropylbenzene	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Methyl acetate	0.0051	U H	0.0059	0.0051	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Methyl tert-butyl ether	0.00061	U H	0.0012	0.00061	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Methylcyclohexane	0.00059	U H	0.0012	0.00059	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Methylene Chloride	0.0014	U H	0.0024	0.0014	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1

Client Sample ID: 4-01-CS
Date Collected: 01/23/25 15:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-4
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
o-Xylene	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Styrene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Tetrachloroethene	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Toluene	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
trans-1,2-Dichloroethene	0.00029	U H	0.0012	0.00029	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
trans-1,3-Dichloropropene	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Trichloroethene	0.00038	U H	0.0012	0.00038	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Trichlorofluoromethane	0.00048	U H	0.0012	0.00048	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1
Vinyl chloride	0.00065	U H	0.0012	0.00065	mg/Kg	☼	01/25/25 11:06	03/06/25 10:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*34*	*H J*	*ug/Kg*	☼	*5.70*	*N/A*	*01/25/25 11:06*	*03/06/25 10:00*	*1*
Benzene, 1-bromo-3-fluoro-	*43*	*H J N*	*ug/Kg*	☼	*7.93*	*1073-06-9*	*01/25/25 11:06*	*03/06/25 10:00*	*1*
Benzene, 1-bromo-2-fluoro-	*27*	*H J N*	*ug/Kg*	☼	*9.04*	*1072-85-1*	*01/25/25 11:06*	*03/06/25 10:00*	*1*
1,2-Dichlorobenzene-D4	*32*	*H J N*	*ug/Kg*	☼	*10.48*	*2199-69-1*	*01/25/25 11:06*	*03/06/25 10:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*65 - 138*	*01/25/25 11:06*	*03/06/25 10:00*	*1*
4-Bromofluorobenzene	*102*		*71 - 128*	*01/25/25 11:06*	*03/06/25 10:00*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*	*01/25/25 11:06*	*03/06/25 10:00*	*1*
Toluene-d8 (Surr)	*105*		*71 - 126*	*01/25/25 11:06*	*03/06/25 10:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1

Client Sample ID: 4-01-CS
Date Collected: 01/23/25 15:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-4
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Benzidine	0.070	U H *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:46	03/04/25 18:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.50*	*A H J*	*mg/Kg*	☼	*2.60*	*N/A*	*03/04/25 08:46*	*03/04/25 18:37*	*1*

Client Sample ID: 4-01-CS
Date Collected: 01/23/25 15:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-4
Matrix: Solid
Percent Solids: 99.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 137	03/04/25 08:46	03/04/25 18:37	1
2-Fluorobiphenyl	81		38 - 128	03/04/25 08:46	03/04/25 18:37	1
2-Fluorophenol (Surr)	85		31 - 133	03/04/25 08:46	03/04/25 18:37	1
Nitrobenzene-d5 (Surr)	78		31 - 120	03/04/25 08:46	03/04/25 18:37	1
Phenol-d5 (Surr)	86		35 - 132	03/04/25 08:46	03/04/25 18:37	1
Terphenyl-d14 (Surr)	78		44 - 147	03/04/25 08:46	03/04/25 18:37	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Endrin	0.00097	U H	0.0067	0.00097	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		17 - 150	03/05/25 17:24	03/06/25 04:54	1
DCB Decachlorobiphenyl	55		17 - 150	03/05/25 17:24	03/06/25 04:54	1
Tetrachloro-m-xylene	87		21 - 150	03/05/25 17:24	03/06/25 04:54	1
Tetrachloro-m-xylene	85		21 - 150	03/05/25 17:24	03/06/25 04:54	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	49		20 - 150	03/05/25 17:15	03/06/25 09:56	1

Client Sample ID: 4-01-CS
Date Collected: 01/23/25 15:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-4
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*54*		*20 - 150*	*03/05/25 17:15*	*03/06/25 09:56*	*1*
Tetrachloro-m-xylene	*81*		*20 - 150*	*03/05/25 17:15*	*03/06/25 09:56*	*1*
Tetrachloro-m-xylene	*102*		*20 - 150*	*03/05/25 17:15*	*03/06/25 09:56*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:06	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:06	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:06	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:06	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:06	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:06	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:06	1
C21-C36 Aromatic	8.1	U H	8.1	8.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*74*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:06*	*1*
2-Fluorobiphenyl	*88*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:06*	*1*
2-Bromonaphthalene	*92*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:06*	*1*
1-Chlorooctadecane	*57*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:06*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3490**		14.2	3.9	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Antimony	0.10	U	0.71	0.10	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Arsenic	**0.58**	**J**	0.71	0.073	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Barium	**2.0**		1.4	0.10	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Beryllium	0.041	U	0.28	0.041	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Cadmium	0.080	U	0.71	0.080	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Calcium	29.0	U	71.1	29.0	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Chromium	**5.2**		1.4	0.65	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Cobalt	0.11	U	1.4	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Copper	**1.3**	**J**	1.4	0.26	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Iron	**1960**		42.7	14.4	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Lead	**2.0**		0.43	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Magnesium	**31.2**	**J**	71.1	7.3	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Manganese	**3.0**		2.8	0.29	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Nickel	**0.62**	**J**	1.4	0.33	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Potassium	**49.3**	**J**	71.1	11.5	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Selenium	**0.12**	**J**	0.89	0.091	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Silver	0.063	U	0.28	0.063	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Sodium	32.5	U	71.1	32.5	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Thallium	0.029	U	0.28	0.029	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1
Vanadium	**5.5**		1.4	0.15	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1

Client Sample ID: 4-01-CS

Date Collected: 01/23/25 15:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-4

Matrix: Solid
Percent Solids: 99.0

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.2	U	5.7	2.2	mg/Kg	☼	03/07/25 12:53	03/08/25 11:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0085**	**J H**	0.017	0.0081	mg/Kg	☼	03/05/25 01:20	03/05/25 07:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.24	0.13	mg/Kg	☼	03/07/25 18:23	03/09/25 16:01	1
Percent Moisture (EPA Moisture)	**1**		1.0	1.0	%			01/27/25 10:21	1
Percent Solids (EPA Moisture)	**99.0**		1.0	1.0	%			01/27/25 10:21	1

Client Sample ID: 4-04-CS-4

Date Collected: 01/23/25 16:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-5

Matrix: Solid
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,1,2,2-Tetrachloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00036	U	0.0012	0.00036	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,1,2-Trichloroethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,1-Dichloroethane	0.00024	U	0.0012	0.00024	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,1-Dichloroethene	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,2,3-Trichlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,2,4-Trichlorobenzene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,2-Dibromo-3-Chloropropane	0.00055	U *+	0.0012	0.00055	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,2-Dibromoethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,2-Dichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,2-Dichloroethane	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,2-Dichloropropane	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,3-Dichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
1,4-Dichlorobenzene	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
2-Butanone (MEK)	0.00044	U	0.0059	0.00044	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
2-Hexanone	0.0020	U *-	0.0059	0.0020	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
4-Methyl-2-pentanone (MIBK)	0.0018	U *-	0.0059	0.0018	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Acetone	**0.023**		0.0071	0.0068	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Benzene	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Bromodichloromethane	0.00030	U	0.0012	0.00030	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Bromoform	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Bromomethane	0.0012	U *+	0.0024	0.0012	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Carbon disulfide	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Carbon tetrachloride	0.00046	U	0.0012	0.00046	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Chlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Chlorobromomethane	0.00033	U *+	0.0012	0.00033	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Chloroethane	0.00062	U	0.0012	0.00062	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Chloroform	0.0012	U	0.0012	0.0012	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Chloromethane	0.00052	U	0.0012	0.00052	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
cis-1,2-Dichloroethene	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
cis-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-04-CS-4
Date Collected: 01/23/25 16:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-5
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Dibromochloromethane	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Dichlorodifluoromethane	0.00040	U	0.0012	0.00040	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Ethylbenzene	0.00024	U	0.0012	0.00024	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Isopropylbenzene	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Methyl acetate	0.0051	U *+	0.0059	0.0051	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Methyl tert-butyl ether	0.00061	U	0.0012	0.00061	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Methylcyclohexane	0.00059	U	0.0012	0.00059	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Methylene Chloride	0.0014	U	0.0024	0.0014	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
m-Xylene & p-Xylene	**0.00038**	**J**	0.0012	0.00021	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
o-Xylene	**0.00032**	**J**	0.0012	0.00023	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Styrene	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Tetrachloroethene	0.00036	U	0.0012	0.00036	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Toluene	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
trans-1,2-Dichloroethene	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
trans-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Trichloroethene	0.00038	U	0.0012	0.00038	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Trichlorofluoromethane	0.00048	U	0.0012	0.00048	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1
Vinyl chloride	0.00065	U	0.0012	0.00065	mg/Kg	☼	01/25/25 11:07	01/29/25 21:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:07*	*01/29/25 21:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*	*01/25/25 11:07*	*01/29/25 21:28*	*1*
4-Bromofluorobenzene	*86*		*71 - 128*	*01/25/25 11:07*	*01/29/25 21:28*	*1*
Dibromofluoromethane (Surr)	*115*		*50 - 150*	*01/25/25 11:07*	*01/29/25 21:28*	*1*
Toluene-d8 (Surr)	*93*		*71 - 126*	*01/25/25 11:07*	*01/29/25 21:28*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-04-CS-4
Date Collected: 01/23/25 16:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-5
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1

Client Sample ID: 4-04-CS-4

Date Collected: 01/23/25 16:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-5

Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/29/25 04:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.67*	*A J*	*mg/Kg*	☼	*2.81*	*N/A*	*01/28/25 10:34*	*01/29/25 04:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*24 - 137*	*01/28/25 10:34*	*01/29/25 04:09*	*1*
2-Fluorobiphenyl	*59*		*38 - 128*	*01/28/25 10:34*	*01/29/25 04:09*	*1*
2-Fluorophenol (Surr)	*53*		*31 - 133*	*01/28/25 10:34*	*01/29/25 04:09*	*1*
Nitrobenzene-d5 (Surr)	*58*		*31 - 120*	*01/28/25 10:34*	*01/29/25 04:09*	*1*
Phenol-d5 (Surr)	*56*		*35 - 132*	*01/28/25 10:34*	*01/29/25 04:09*	*1*
Terphenyl-d14 (Surr)	*60*		*44 - 147*	*01/28/25 10:34*	*01/29/25 04:09*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/28/25 06:14	01/29/25 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*17 - 150*	*01/28/25 06:14*	*01/29/25 07:06*	*1*
DCB Decachlorobiphenyl	*108*		*17 - 150*	*01/28/25 06:14*	*01/29/25 07:06*	*1*
Tetrachloro-m-xylene	*93*		*21 - 150*	*01/28/25 06:14*	*01/29/25 07:06*	*1*
Tetrachloro-m-xylene	*93*		*21 - 150*	*01/28/25 06:14*	*01/29/25 07:06*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1

Client Sample ID: 4-04-CS-4
Date Collected: 01/23/25 16:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-5
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:31*	*1*
DCB Decachlorobiphenyl	*90*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:31*	*1*
Tetrachloro-m-xylene	*75*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:31*	*1*
Tetrachloro-m-xylene	*76*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:31*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 17:26	01/30/25 10:44	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 17:26	01/30/25 10:44	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 17:26	01/30/25 10:44	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/29/25 17:26	01/30/25 10:44	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 17:26	01/30/25 10:44	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 17:26	01/30/25 10:44	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 17:26	01/30/25 10:44	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/29/25 17:26	01/30/25 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*40 - 140*	*01/29/25 17:26*	*01/30/25 10:44*	*1*
2-Fluorobiphenyl	*92*		*40 - 140*	*01/29/25 17:26*	*01/30/25 10:44*	*1*
2-Bromonaphthalene	*94*		*40 - 140*	*01/29/25 17:26*	*01/30/25 10:44*	*1*
1-Chlorooctadecane	*75*		*40 - 140*	*01/29/25 17:26*	*01/30/25 10:44*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1260**		18.4	5.1	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Arsenic	**0.34**	**J**	0.92	0.095	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Barium	**1.5**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Calcium	37.5	U	92.2	37.5	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Chromium	**2.5**		1.8	0.84	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Cobalt	0.14	U	1.8	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Copper	**0.93**	**J**	1.8	0.34	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Iron	**1190**		55.3	18.6	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Lead	**2.0**		0.55	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Magnesium	**21.4**	**J**	92.2	9.4	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1

Client Sample ID: 4-04-CS-4

Date Collected: 01/23/25 16:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-5

Matrix: Solid
Percent Solids: 99.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.2**	**J**	3.7	0.37	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Nickel	0.43	U	1.8	0.43	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Potassium	**20.8**	**J**	92.2	14.9	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Sodium	42.1	U	92.2	42.1	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Vanadium	**2.9**		1.8	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1
Zinc	2.8	U	7.4	2.8	mg/Kg	☼	01/29/25 07:26	01/30/25 14:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg	☼	01/29/25 00:52	01/29/25 04:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/29/25 18:15	01/29/25 21:26	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 10:21	1
Percent Solids (EPA Moisture)	**99.5**		1.0	1.0	%			01/27/25 10:21	1

Client Sample ID: 4-04-CS-8

Date Collected: 01/23/25 16:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-6

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,2-Dibromo-3-Chloropropane	0.00048	U *+	0.0010	0.00048	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,2-Dibromoethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,2-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,2-Dichloroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,2-Dichloropropane	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,3-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
2-Butanone (MEK)	0.00038	U	0.0052	0.00038	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
2-Hexanone	0.0018	U *-	0.0052	0.0018	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
4-Methyl-2-pentanone (MIBK)	0.0016	U *-	0.0052	0.0016	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Acetone	**0.027**		0.0062	0.0059	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Benzene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Bromodichloromethane	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Bromoform	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Bromomethane	0.0010	U *+	0.0021	0.0010	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Carbon disulfide	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1

Client Sample ID: 4-04-CS-8

Date Collected: 01/23/25 16:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-6

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Chlorobromomethane	0.00029	U *+	0.0010	0.00029	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Chloroethane	0.00054	U	0.0010	0.00054	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Chloroform	0.0010	U	0.0010	0.0010	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Chloromethane	0.00045	U	0.0010	0.00045	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Cyclohexane	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Dibromochloromethane	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Isopropylbenzene	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Methyl acetate	0.0045	U *+	0.0052	0.0045	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Methyl tert-butyl ether	0.00053	U	0.0010	0.00053	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Methylcyclohexane	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
m-Xylene & p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Styrene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Tetrachloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
trans-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1
Vinyl chloride	0.00057	U	0.0010	0.00057	mg/Kg	☼	01/25/25 11:07	01/29/25 21:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:07*	*01/29/25 21:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*	*01/25/25 11:07*	*01/29/25 21:51*	*1*
4-Bromofluorobenzene	*85*		*71 - 128*	*01/25/25 11:07*	*01/29/25 21:51*	*1*
Dibromofluoromethane (Surr)	*114*		*50 - 150*	*01/25/25 11:07*	*01/29/25 21:51*	*1*
Toluene-d8 (Surr)	*87*		*71 - 126*	*01/25/25 11:07*	*01/29/25 21:51*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-04-CS-8
Date Collected: 01/23/25 16:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-6
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1

Client Sample ID: 4-04-CS-8
Date Collected: 01/23/25 16:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-6
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/29/25 04:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.70*	*A J*	*mg/Kg*	☼	*2.80*	*N/A*	*01/28/25 10:34*	*01/29/25 04:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*24 - 137*	*01/28/25 10:34*	*01/29/25 04:31*	*1*
2-Fluorobiphenyl	*52*		*38 - 128*	*01/28/25 10:34*	*01/29/25 04:31*	*1*
2-Fluorophenol (Surr)	*47*		*31 - 133*	*01/28/25 10:34*	*01/29/25 04:31*	*1*
Nitrobenzene-d5 (Surr)	*49*		*31 - 120*	*01/28/25 10:34*	*01/29/25 04:31*	*1*
Phenol-d5 (Surr)	*48*		*35 - 132*	*01/28/25 10:34*	*01/29/25 04:31*	*1*
Terphenyl-d14 (Surr)	*53*		*44 - 147*	*01/28/25 10:34*	*01/29/25 04:31*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
4,4'-DDE	0.00080	U	0.0067	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Endosulfan sulfate	0.00085	U	0.0067	0.00085	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Endrin	0.00097	U	0.0067	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Heptachlor	0.00080	U	0.0067	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*17 - 150*	*01/28/25 06:14*	*01/28/25 16:50*	*1*
DCB Decachlorobiphenyl	*93*		*17 - 150*	*01/28/25 06:14*	*01/28/25 16:50*	*1*

Client Sample ID: 4-04-CS-8
Date Collected: 01/23/25 16:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-6
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*21 - 150*	*01/28/25 06:14*	*01/28/25 16:50*	*1*
Tetrachloro-m-xylene	*84*		*21 - 150*	*01/28/25 06:14*	*01/28/25 16:50*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:48*	*1*
DCB Decachlorobiphenyl	*102*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:48*	*1*
Tetrachloro-m-xylene	*95*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:48*	*1*
Tetrachloro-m-xylene	*95*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:48*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 17:26	01/30/25 11:00	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 17:26	01/30/25 11:00	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 17:26	01/30/25 11:00	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/29/25 17:26	01/30/25 11:00	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 17:26	01/30/25 11:00	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 17:26	01/30/25 11:00	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 17:26	01/30/25 11:00	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 17:26	01/30/25 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*40 - 140*	*01/29/25 17:26*	*01/30/25 11:00*	*1*
2-Fluorobiphenyl	*94*		*40 - 140*	*01/29/25 17:26*	*01/30/25 11:00*	*1*
2-Bromonaphthalene	*94*		*40 - 140*	*01/29/25 17:26*	*01/30/25 11:00*	*1*
1-Chlorooctadecane	*86*		*40 - 140*	*01/29/25 17:26*	*01/30/25 11:00*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**620**		18.3	5.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Arsenic	**0.19**	**J**	0.92	0.094	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1

Client Sample ID: 4-04-CS-8

Lab Sample ID: 460-319275-6
Date Collected: 01/23/25 16:10
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**3.3**		1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Calcium	37.3	U	91.7	37.3	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Chromium	**2.1**		1.8	0.83	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Cobalt	0.14	U	1.8	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Copper	**0.43**	**J**	1.8	0.34	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Iron	**1130**		55.0	18.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Lead	**0.95**		0.55	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Magnesium	9.4	U	91.7	9.4	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Manganese	**1.6**	**J**	3.7	0.37	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Nickel	0.43	U	1.8	0.43	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Potassium	**20.3**	**J**	91.7	14.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Sodium	41.9	U	91.7	41.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Vanadium	**2.1**		1.8	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1
Zinc	2.8	U	7.3	2.8	mg/Kg	☼	01/29/25 07:26	01/30/25 15:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	U	0.016	0.0077	mg/Kg	☼	01/29/25 00:52	01/29/25 04:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**1.1**		0.24	0.13	mg/Kg	☼	01/29/25 18:15	01/29/25 21:26	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.1**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 4-03-TS

Lab Sample ID: 460-319275-7
Date Collected: 01/23/25 16:20
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 96.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00036	U H	0.0016	0.00036	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,1,2,2-Tetrachloroethane	0.00033	U H	0.0016	0.00033	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00047	U H	0.0016	0.00047	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,1,2-Trichloroethane	0.00028	U H	0.0016	0.00028	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,1-Dichloroethane	0.00032	U H	0.0016	0.00032	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,1-Dichloroethene	0.00035	U H	0.0016	0.00035	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,2,3-Trichlorobenzene	0.00028	U H	0.0016	0.00028	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,2,4-Trichlorobenzene	0.00056	U H	0.0016	0.00056	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,2-Dibromo-3-Chloropropane	0.00071	U H *-	0.0016	0.00071	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,2-Dibromoethane	0.00028	U H	0.0016	0.00028	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,2-Dichlorobenzene	0.00056	U H	0.0016	0.00056	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,2-Dichloroethane	0.00046	U H	0.0016	0.00046	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,2-Dichloropropane	0.00066	U H	0.0016	0.00066	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
1,3-Dichlorobenzene	0.00057	U H	0.0016	0.00057	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1

Client Sample ID: 4-03-TS
Date Collected: 01/23/25 16:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-7
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00035	U H	0.0016	0.00035	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
2-Butanone (MEK)	0.00057	U H	0.0078	0.00057	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
2-Hexanone	0.0027	U H	0.0078	0.0027	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
4-Methyl-2-pentanone (MIBK)	0.0024	U H	0.0078	0.0024	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Acetone	0.0089	U H	0.0093	0.0089	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Benzene	0.00040	U H	0.0016	0.00040	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Bromodichloromethane	0.00040	U H	0.0016	0.00040	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Bromoform	0.00066	U H	0.0016	0.00066	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Bromomethane	0.0016	U H *+	0.0031	0.0016	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Carbon disulfide	0.00041	U H	0.0016	0.00041	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Carbon tetrachloride	0.00060	U H	0.0016	0.00060	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Chlorobenzene	0.00027	U H	0.0016	0.00027	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Chlorobromomethane	0.00044	U H	0.0016	0.00044	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Chloroethane	0.00081	U H	0.0016	0.00081	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Chloroform	0.0015	U H	0.0016	0.0015	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Chloromethane	0.00068	U H	0.0016	0.00068	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
cis-1,2-Dichloroethene	0.00056	U H	0.0016	0.00056	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
cis-1,3-Dichloropropene	0.00042	U H	0.0016	0.00042	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Cyclohexane	0.00034	U H	0.0016	0.00034	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Dibromochloromethane	0.00030	U H	0.0016	0.00030	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Dichlorodifluoromethane	0.00052	U H	0.0016	0.00052	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Ethylbenzene	0.00031	U H	0.0016	0.00031	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Isopropylbenzene	0.00044	U H	0.0016	0.00044	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Methyl acetate	0.0067	U H	0.0078	0.0067	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Methyl tert-butyl ether	0.00079	U H	0.0016	0.00079	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Methylcyclohexane	0.00077	U H	0.0016	0.00077	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Methylene Chloride	0.0018	U H	0.0031	0.0018	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
m-Xylene & p-Xylene	0.00027	U H	0.0016	0.00027	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
o-Xylene	0.00030	U H	0.0016	0.00030	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Styrene	0.00043	U H	0.0016	0.00043	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Tetrachloroethene	0.00047	U H	0.0016	0.00047	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Toluene	0.00036	U H	0.0016	0.00036	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
trans-1,2-Dichloroethene	0.00038	U H	0.0016	0.00038	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
trans-1,3-Dichloropropene	0.00041	U H	0.0016	0.00041	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Trichloroethene	0.00050	U H	0.0016	0.00050	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Trichlorofluoromethane	0.00063	U H	0.0016	0.00063	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1
Vinyl chloride	0.00085	U H	0.0016	0.00085	mg/Kg	☼	01/25/25 11:08	03/06/25 10:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:08*	*03/06/25 10:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*65 - 138*	*01/25/25 11:08*	*03/06/25 10:23*	*1*
4-Bromofluorobenzene	*107*		*71 - 128*	*01/25/25 11:08*	*03/06/25 10:23*	*1*
Dibromofluoromethane (Surr)	*113*		*50 - 150*	*01/25/25 11:08*	*03/06/25 10:23*	*1*
Toluene-d8 (Surr)	*111*		*71 - 126*	*01/25/25 11:08*	*03/06/25 10:23*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-TS
Date Collected: 01/23/25 16:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-7
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
1,2-Dichlorobenzene	0.0059	U H	0.34	0.0059	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2,4,5-Trichlorophenol	0.035	U H	0.34	0.035	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2,4,6-Trichlorophenol	0.044	U H	0.14	0.044	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2,4-Dimethylphenol	0.041	U H	0.34	0.041	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2,4-Dinitrophenol	0.17	U H	0.28	0.17	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2,4-Dinitrotoluene	0.037	U H	0.070	0.037	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2,6-Dinitrotoluene	0.025	U H	0.070	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2-Methylnaphthalene	0.0096	U H	0.34	0.0096	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
3,3'-Dichlorobenzidine	0.052	U H	0.14	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
3-Nitroaniline	0.082	U H	0.34	0.082	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.28	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
4-Bromophenyl phenyl ether	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
4-Chloroaniline	0.061	U H	0.34	0.061	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
4-Nitrophenol	0.056	U H	0.70	0.056	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Acenaphthene	0.0098	U H	0.34	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Acenaphthylene	0.0098	U H	0.34	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Acetophenone	**0.089**	**J H**	0.34	0.017	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Atrazine	0.020	U H	0.14	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Benzaldehyde	**0.61**	**H**	0.34	0.057	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Benzidine	0.072	U H *+	0.34	0.072	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Benzo[a]anthracene	0.026	U H	0.034	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Benzo[a]pyrene	0.0092	U H	0.034	0.0092	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Benzo[b]fluoranthene	0.0089	U H	0.034	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Benzo[g,h,i]perylene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Benzo[k]fluoranthene	0.0067	U H	0.034	0.0067	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
bis (2-chloroisopropyl) ether	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Bis(2-chloroethoxy)methane	0.027	U H	0.34	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Caprolactam	0.054	U H	0.34	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1

Client Sample ID: 4-03-TS
Date Collected: 01/23/25 16:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-7
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Dimethyl phthalate	0.078	U H	0.34	0.078	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Fluorene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Hexachlorobutadiene	0.0073	U H	0.070	0.0073	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Isophorone	0.099	U H	0.14	0.099	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Naphthalene	0.0059	U H	0.34	0.0059	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
N-Nitrosodimethylamine	0.032	U H	0.34	0.032	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
N-Nitrosodi-n-propylamine	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Pentachlorophenol	0.070	U H	0.28	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Phenanthrene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Phenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1
Pyrene	0.0085	U H	0.34	0.0085	mg/Kg	☼	03/04/25 08:46	03/04/25 23:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 23:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*56*		*24 - 137*	*03/04/25 08:46*	*03/04/25 23:35*	*1*
2-Fluorobiphenyl	*49*		*38 - 128*	*03/04/25 08:46*	*03/04/25 23:35*	*1*
2-Fluorophenol (Surr)	*48*		*31 - 133*	*03/04/25 08:46*	*03/04/25 23:35*	*1*
Nitrobenzene-d5 (Surr)	*45*		*31 - 120*	*03/04/25 08:46*	*03/04/25 23:35*	*1*
Phenol-d5 (Surr)	*47*		*35 - 132*	*03/04/25 08:46*	*03/04/25 23:35*	*1*
Terphenyl-d14 (Surr)	*49*		*44 - 147*	*03/04/25 08:46*	*03/04/25 23:35*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0069	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
4,4'-DDE	0.00082	U H	0.0069	0.00082	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
4,4'-DDT	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Aldrin	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
alpha-BHC	0.00070	U H	0.0021	0.00070	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
beta-BHC	0.00078	U H	0.0021	0.00078	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
delta-BHC	0.00042	U H	0.0021	0.00042	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Dieldrin	0.00090	U H	0.0021	0.00090	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Endosulfan I	0.0011	U H	0.0069	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Endosulfan II	0.0018	U H	0.0069	0.0018	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Endosulfan sulfate	0.00087	U H	0.0069	0.00087	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Endrin	0.00099	U H	0.0069	0.00099	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Endrin aldehyde	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Endrin ketone	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1

Client Sample ID: 4-03-TS
Date Collected: 01/23/25 16:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-7
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.00064	U H	0.0021	0.00064	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Heptachlor	0.00082	U H	0.0069	0.00082	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Heptachlor epoxide	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Methoxychlor	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Toxaphene	0.025	U H	0.069	0.025	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1
Chlordane (n.o.s.)	0.017	U H	0.069	0.017	mg/Kg	☼	03/05/25 17:24	03/06/25 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*29*		*17 - 150*	*03/05/25 17:24*	*03/06/25 05:06*	*1*
DCB Decachlorobiphenyl	*25*		*17 - 150*	*03/05/25 17:24*	*03/06/25 05:06*	*1*
Tetrachloro-m-xylene	*46*		*21 - 150*	*03/05/25 17:24*	*03/06/25 05:06*	*1*
Tetrachloro-m-xylene	*43*		*21 - 150*	*03/05/25 17:24*	*03/06/25 05:06*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Aroclor 1221	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Aroclor 1232	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Aroclor 1242	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Aroclor 1248	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Aroclor 1254	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Aroclor 1260	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Aroclor-1262	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Aroclor 1268	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1
Polychlorinated biphenyls, Total	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:13*	*1*
DCB Decachlorobiphenyl	*28*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:13*	*1*
Tetrachloro-m-xylene	*44*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:13*	*1*
Tetrachloro-m-xylene	*57*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:13*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**16**		2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total EPH	**16**		2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:22	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:22	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:22	1
C21-C40 Aliphatics	7.3	U H	7.3	7.3	mg/Kg	☼	03/06/25 10:35	03/06/25 23:22	1
C16-C21 Aromatics	5.2	U H	5.2	5.2	mg/Kg	☼	03/06/25 10:35	03/06/25 23:22	1
C10-C12 Aromatics	**2.7**	**H**	2.1	2.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:22	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:22	1
C21-C36 Aromatic	**13**	**H**	8.3	8.3	mg/Kg	☼	03/06/25 10:35	03/06/25 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:22*	*1*

Client Sample ID: 4-03-TS

Date Collected: 01/23/25 16:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-7

Matrix: Solid
Percent Solids: 96.2

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:22*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:22*	*1*
1-Chlorooctadecane	*46*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:22*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**631**		16.8	4.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Antimony	**0.19**	**J**	0.84	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Arsenic	**0.49**	**J**	0.84	0.086	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Barium	**3.7**		1.7	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Beryllium	0.048	U	0.34	0.048	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Cadmium	0.095	U	0.84	0.095	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Calcium	**57.9**	**J**	83.9	34.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Chromium	**1.7**		1.7	0.76	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Cobalt	0.12	U	1.7	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Copper	**2.6**		1.7	0.31	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Iron	**671**		50.3	16.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Lead	**19.2**		0.50	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Magnesium	**31.8**	**J**	83.9	8.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Manganese	**2.4**	**J**	3.4	0.34	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Nickel	**0.63**	**J**	1.7	0.39	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Potassium	**40.8**	**J**	83.9	13.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Selenium	**0.16**	**J**	1.0	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Silver	0.075	U	0.34	0.075	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Sodium	38.3	U	83.9	38.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Thallium	0.034	U	0.34	0.034	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Vanadium	**2.8**		1.7	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1
Zinc	**3.7**	**J**	6.7	2.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J H**	0.017	0.0081	mg/Kg	☼	03/05/25 01:20	03/05/25 07:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 16:01	1
Percent Moisture (EPA Moisture)	**3.8**		1.0	1.0	%			01/27/25 10:21	1
Percent Solids (EPA Moisture)	**96.2**		1.0	1.0	%			01/27/25 10:21	1

Client Sample ID: 4-03-CS-4

Date Collected: 01/23/25 16:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-8

Matrix: Solid
Percent Solids: 97.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,1,2-Trichloroethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,1-Dichloroethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1

Client Sample ID: 4-03-CS-4
Date Collected: 01/23/25 16:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-8
Matrix: Solid
Percent Solids: 97.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,2,3-Trichlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,2,4-Trichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,2-Dibromo-3-Chloropropane	0.00050	U H *-	0.0011	0.00050	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,2-Dibromoethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,2-Dichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,2-Dichloroethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,2-Dichloropropane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,3-Dichlorobenzene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
1,4-Dichlorobenzene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
2-Butanone (MEK)	0.00040	U H	0.0054	0.00040	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
2-Hexanone	0.0019	U H	0.0054	0.0019	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
4-Methyl-2-pentanone (MIBK)	0.0017	U H	0.0054	0.0017	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Acetone	0.0062	U H	0.0065	0.0062	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Benzene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Bromodichloromethane	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Bromoform	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Bromomethane	0.0011	U H *+	0.0022	0.0011	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Carbon disulfide	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Carbon tetrachloride	0.00042	U H	0.0011	0.00042	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Chlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Chlorobromomethane	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Chloroethane	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Chloroform	0.0011	U H	0.0011	0.0011	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Chloromethane	0.00047	U H	0.0011	0.00047	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
cis-1,2-Dichloroethene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
cis-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Cyclohexane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Dibromochloromethane	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Dichlorodifluoromethane	0.00037	U H	0.0011	0.00037	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Ethylbenzene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Isopropylbenzene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Methyl acetate	0.0047	U H	0.0054	0.0047	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Methyl tert-butyl ether	0.00055	U H	0.0011	0.00055	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Methylcyclohexane	0.00054	U H	0.0011	0.00054	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Methylene Chloride	0.0012	U H	0.0022	0.0012	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
m-Xylene & p-Xylene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
o-Xylene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Styrene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Tetrachloroethene	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Toluene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
trans-1,2-Dichloroethene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
trans-1,3-Dichloropropene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Trichloroethene	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Trichlorofluoromethane	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1
Vinyl chloride	0.00059	U H	0.0011	0.00059	mg/Kg	☼	01/25/25 11:09	03/06/25 10:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:09*	*03/06/25 10:46*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-CS-4
Date Collected: 01/23/25 16:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-8
Matrix: Solid
Percent Solids: 97.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 138*	*01/25/25 11:09*	*03/06/25 10:46*	*1*
4-Bromofluorobenzene	*97*		*71 - 128*	*01/25/25 11:09*	*03/06/25 10:46*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*	*01/25/25 11:09*	*03/06/25 10:46*	*1*
Toluene-d8 (Surr)	*105*		*71 - 126*	*01/25/25 11:09*	*03/06/25 10:46*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
1,2,4-Trichlorobenzene	0.0087	U H	0.034	0.0087	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
1,2-Dichlorobenzene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2,4,5-Trichlorophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2,4,6-Trichlorophenol	0.043	U H	0.14	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2,4-Dimethylphenol	0.040	U H	0.34	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2,4-Dinitrophenol	0.17	U H	0.27	0.17	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2,4-Dinitrotoluene	0.036	U H	0.068	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2,6-Dinitrotoluene	0.024	U H	0.068	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2-Methylnaphthalene	0.0094	U H	0.34	0.0094	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
3,3'-Dichlorobenzidine	0.051	U H	0.14	0.051	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
3-Nitroaniline	0.080	U H	0.34	0.080	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
4-Bromophenyl phenyl ether	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
4-Chloroaniline	0.060	U H	0.34	0.060	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
4-Nitrophenol	0.055	U H	0.68	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Acenaphthene	0.0096	U H	0.34	0.0096	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Acenaphthylene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Atrazine	0.020	U H	0.14	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Benzaldehyde	0.056	U H	0.34	0.056	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Benzidine	0.071	U H *+	0.34	0.071	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Benzo[a]anthracene	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Benzo[a]pyrene	0.0090	U H	0.034	0.0090	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Benzo[b]fluoranthene	0.0087	U H	0.034	0.0087	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Benzo[g,h,i]perylene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Benzo[k]fluoranthene	0.0066	U H	0.034	0.0066	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
bis (2-chloroisopropyl) ether	0.020	U H	0.34	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Bis(2-chloroethoxy)methane	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1

Client Sample ID: 4-03-CS-4
Date Collected: 01/23/25 16:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-8
Matrix: Solid
Percent Solids: 97.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Caprolactam	0.053	U H	0.34	0.053	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Dimethyl phthalate	0.077	U H	0.34	0.077	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Fluorene	0.0099	U H	0.34	0.0099	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Hexachlorobutadiene	0.0072	U H	0.068	0.0072	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Isophorone	0.098	U H	0.14	0.098	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Naphthalene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
N-Nitrosodimethylamine	0.031	U H	0.34	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
N-Nitrosodi-n-propylamine	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Pentachlorophenol	0.069	U H	0.27	0.069	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Phenanthrene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Phenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1
Pyrene	0.0084	U H	0.34	0.0084	mg/Kg	☼	03/04/25 08:46	03/04/25 18:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*0.37*	*H J*	*mg/Kg*	☼	*10.84*	*N/A*	*03/04/25 08:46*	*03/04/25 18:59*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.71*	*H J N*	*mg/Kg*	☼	*10.94*	*1740-19-8*	*03/04/25 08:46*	*03/04/25 18:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*24 - 137*	*03/04/25 08:46*	*03/04/25 18:59*	*1*
2-Fluorobiphenyl	*84*		*38 - 128*	*03/04/25 08:46*	*03/04/25 18:59*	*1*
2-Fluorophenol (Surr)	*86*		*31 - 133*	*03/04/25 08:46*	*03/04/25 18:59*	*1*
Nitrobenzene-d5 (Surr)	*81*		*31 - 120*	*03/04/25 08:46*	*03/04/25 18:59*	*1*
Phenol-d5 (Surr)	*89*		*35 - 132*	*03/04/25 08:46*	*03/04/25 18:59*	*1*
Terphenyl-d14 (Surr)	*77*		*44 - 147*	*03/04/25 08:46*	*03/04/25 18:59*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
4,4'-DDE	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
4,4'-DDT	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1

Client Sample ID: 4-03-CS-4
Date Collected: 01/23/25 16:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-8
Matrix: Solid
Percent Solids: 97.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
delta-BHC	0.00042	U H	0.0020	0.00042	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Dieldrin	0.00089	U H	0.0020	0.00089	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Endosulfan II	0.0018	U H	0.0068	0.0018	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Endosulfan sulfate	0.00086	U H	0.0068	0.00086	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Endrin	0.00098	U H	0.0068	0.00098	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
gamma-BHC (Lindane)	0.00063	U H	0.0020	0.00063	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Heptachlor	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Methoxychlor	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Toxaphene	0.025	U H	0.068	0.025	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1
Chlordane (n.o.s.)	0.016	U H	0.068	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*17 - 150*	*03/05/25 17:24*	*03/06/25 05:18*	*1*
DCB Decachlorobiphenyl	*43*		*17 - 150*	*03/05/25 17:24*	*03/06/25 05:18*	*1*
Tetrachloro-m-xylene	*71*		*21 - 150*	*03/05/25 17:24*	*03/06/25 05:18*	*1*
Tetrachloro-m-xylene	*68*		*21 - 150*	*03/05/25 17:24*	*03/06/25 05:18*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:30*	*1*
DCB Decachlorobiphenyl	*46*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:30*	*1*
Tetrachloro-m-xylene	*66*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:30*	*1*
Tetrachloro-m-xylene	*87*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:30*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**14**		2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	**20**		2.0	0.010	mg/Kg			03/07/25 11:23	1
Total EPH	**35**		2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:38	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:38	1

Client Sample ID: 4-03-CS-4

Date Collected: 01/23/25 16:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-8

Matrix: Solid
Percent Solids: 97.8

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aliphatics	**2.1**	**H**	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:38	1
C21-C40 Aliphatics	**18**	**H**	7.1	7.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:38	1
C16-C21 Aromatics	5.1	U H	5.1	5.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:38	1
C10-C12 Aromatics	**2.2**	**H**	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:38	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 10:35	03/06/25 23:38	1
C21-C36 Aromatic	**12**	**H**	8.2	8.2	mg/Kg	☼	03/06/25 10:35	03/06/25 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:38*	*1*
2-Fluorobiphenyl	*82*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:38*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:38*	*1*
1-Chlorooctadecane	*57*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:38*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2690**		15.4	4.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Antimony	0.11	U	0.77	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Arsenic	**0.50**	**J**	0.77	0.079	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Barium	**1.9**		1.5	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Beryllium	0.044	U	0.31	0.044	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Cadmium	0.087	U	0.77	0.087	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Calcium	31.3	U	76.9	31.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Chromium	**4.3**		1.5	0.70	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Cobalt	0.11	U	1.5	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Copper	**1.0**	**J**	1.5	0.28	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Iron	**1540**		46.1	15.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Lead	**1.5**		0.46	0.15	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Magnesium	**31.4**	**J**	76.9	7.8	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Manganese	**1.9**	**J**	3.1	0.31	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Nickel	**0.73**	**J**	1.5	0.36	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Potassium	**36.6**	**J**	76.9	12.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Selenium	**0.10**	**J**	0.96	0.098	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Silver	0.068	U	0.31	0.068	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Sodium	35.1	U	76.9	35.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Thallium	0.032	U	0.31	0.032	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Vanadium	**3.7**		1.5	0.16	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1
Zinc	2.3	U	6.2	2.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	U H	0.016	0.0076	mg/Kg	☼	03/05/25 01:20	03/05/25 07:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.18**	**J H**	0.21	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 16:02	1
Percent Moisture (EPA Moisture)	**2.2**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**97.8**		1.0	1.0	%			01/27/25 07:37	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-CS-8
Date Collected: 01/23/25 16:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-9
Matrix: Solid
Percent Solids: 99.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,1,2-Trichloroethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,1-Dichloroethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,1-Dichloroethene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,2,3-Trichlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,2,4-Trichlorobenzene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,2-Dibromo-3-Chloropropane	0.00048	U H *-	0.0011	0.00048	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,2-Dibromoethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,2-Dichlorobenzene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,2-Dichloroethane	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,2-Dichloropropane	0.00045	U H	0.0011	0.00045	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,3-Dichlorobenzene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
1,4-Dichlorobenzene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
2-Butanone (MEK)	0.00039	U H	0.0053	0.00039	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
2-Hexanone	0.0018	U H	0.0053	0.0018	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
4-Methyl-2-pentanone (MIBK)	0.0016	U H	0.0053	0.0016	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Acetone	**0.044**	**H**	0.0063	0.0060	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Benzene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Bromodichloromethane	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Bromoform	0.00045	U H	0.0011	0.00045	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Bromomethane	0.0011	U H *+	0.0021	0.0011	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Carbon disulfide	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Carbon tetrachloride	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Chlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Chlorobromomethane	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Chloroethane	0.00055	U H	0.0011	0.00055	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Chloroform	0.0010	U H	0.0011	0.0010	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Chloromethane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
cis-1,2-Dichloroethene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
cis-1,3-Dichloropropene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Cyclohexane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Dibromochloromethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Dichlorodifluoromethane	0.00036	U H	0.0011	0.00036	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Ethylbenzene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Isopropylbenzene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Methyl acetate	0.0045	U H	0.0053	0.0045	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Methyl tert-butyl ether	0.00054	U H	0.0011	0.00054	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Methylcyclohexane	0.00053	U H	0.0011	0.00053	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Methylene Chloride	0.0012	U H	0.0021	0.0012	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
m-Xylene & p-Xylene	0.00018	U H	0.0011	0.00018	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
o-Xylene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Styrene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Tetrachloroethene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Toluene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
trans-1,2-Dichloroethene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
trans-1,3-Dichloropropene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Trichloroethene	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-CS-8
Date Collected: 01/23/25 16:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-9
Matrix: Solid
Percent Solids: 99.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00043	U H	0.0011	0.00043	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1
Vinyl chloride	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/25/25 11:09	03/06/25 11:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:09*	*03/06/25 11:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*	*01/25/25 11:09*	*03/06/25 11:09*	*1*
4-Bromofluorobenzene	*100*		*71 - 128*	*01/25/25 11:09*	*03/06/25 11:09*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*01/25/25 11:09*	*03/06/25 11:09*	*1*
Toluene-d8 (Surr)	*105*		*71 - 126*	*01/25/25 11:09*	*03/06/25 11:09*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
1,2,4-Trichlorobenzene	0.0085	U H	0.033	0.0085	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Acenaphthene	0.0094	U H	0.33	0.0094	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Benzidine	0.070	U H *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-CS-8
Date Collected: 01/23/25 16:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-9
Matrix: Solid
Percent Solids: 99.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Benzo[a]pyrene	0.0088	U H	0.033	0.0088	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Dimethyl phthalate	0.075	U H	0.33	0.075	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Di-n-butyl phthalate	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Naphthalene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1
Pyrene	0.0082	U H	0.33	0.0082	mg/Kg	☼	03/04/25 08:46	03/04/25 14:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 14:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*24 - 137*	*03/04/25 08:46*	*03/04/25 14:30*	*1*
2-Fluorobiphenyl	*77*		*38 - 128*	*03/04/25 08:46*	*03/04/25 14:30*	*1*
2-Fluorophenol (Surr)	*82*		*31 - 133*	*03/04/25 08:46*	*03/04/25 14:30*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*	*03/04/25 08:46*	*03/04/25 14:30*	*1*
Phenol-d5 (Surr)	*82*		*35 - 132*	*03/04/25 08:46*	*03/04/25 14:30*	*1*
Terphenyl-d14 (Surr)	*74*		*44 - 147*	*03/04/25 08:46*	*03/04/25 14:30*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-CS-8

Date Collected: 01/23/25 16:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-9

Matrix: Solid
Percent Solids: 99.4

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*17 - 150*	*03/05/25 17:24*	*03/06/25 05:31*	*1*
DCB Decachlorobiphenyl	*56*		*17 - 150*	*03/05/25 17:24*	*03/06/25 05:31*	*1*
Tetrachloro-m-xylene	*92*		*21 - 150*	*03/05/25 17:24*	*03/06/25 05:31*	*1*
Tetrachloro-m-xylene	*88*		*21 - 150*	*03/05/25 17:24*	*03/06/25 05:31*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:46*	*1*
DCB Decachlorobiphenyl	*60*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:46*	*1*
Tetrachloro-m-xylene	*85*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:46*	*1*
Tetrachloro-m-xylene	*113*		*20 - 150*	*03/05/25 17:15*	*03/06/25 10:46*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1

Client Sample ID: 4-03-CS-8

Date Collected: 01/23/25 16:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-9

Matrix: Solid
Percent Solids: 99.4

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 11:23	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:53	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:53	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:53	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:53	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:53	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:53	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:53	1
C21-C36 Aromatic	8.0	U H	8.0	8.0	mg/Kg	☼	03/06/25 10:35	03/06/25 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:53*	*1*
2-Fluorobiphenyl	*79*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:53*	*1*
2-Bromonaphthalene	*83*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:53*	*1*
1-Chlorooctadecane	*62*		*40 - 140*	*03/06/25 10:35*	*03/06/25 23:53*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1310**		16.4	4.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Antimony	0.12	U	0.82	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Arsenic	**0.43**	**J**	0.82	0.084	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Barium	**0.89**	**J**	1.6	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Beryllium	0.047	U	0.33	0.047	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Cadmium	0.092	U	0.82	0.092	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Calcium	33.3	U	81.8	33.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Chromium	**2.4**		1.6	0.74	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Cobalt	0.12	U	1.6	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Copper	**0.76**	**J**	1.6	0.30	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Iron	**1410**		49.1	16.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Lead	**0.54**		0.49	0.16	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Magnesium	**14.4**	**J**	81.8	8.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Manganese	**0.69**	**J**	3.3	0.33	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Nickel	0.38	U	1.6	0.38	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Potassium	**29.6**	**J**	81.8	13.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Selenium	0.10	U	1.0	0.10	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Silver	0.073	U	0.33	0.073	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Sodium	37.4	U	81.8	37.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Thallium	0.034	U	0.33	0.034	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Vanadium	**4.1**		1.6	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1
Zinc	2.5	U	6.5	2.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0073	U H	0.016	0.0073	mg/Kg	☼	03/05/25 01:20	03/05/25 07:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 16:03	1

Client Sample ID: 4-03-CS-8

Date Collected: 01/23/25 16:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-9

Matrix: Solid
Percent Solids: 99.4

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.4**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-01-TS

Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10

Matrix: Solid
Percent Solids: 86.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00080	U	0.0034	0.00080	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,1,2,2-Tetrachloroethane	0.00074	U	0.0034	0.00074	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0034	0.0010	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,1,2-Trichloroethane	0.00061	U	0.0034	0.00061	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,1-Dichloroethane	0.00071	U	0.0034	0.00071	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,1-Dichloroethene	0.00077	U	0.0034	0.00077	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,2,3-Trichlorobenzene	0.00062	U	0.0034	0.00062	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,2,4-Trichlorobenzene	0.0012	U	0.0034	0.0012	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,2-Dibromo-3-Chloropropane	0.0016	U *+	0.0034	0.0016	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,2-Dibromoethane	0.00062	U	0.0034	0.00062	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,2-Dichlorobenzene	0.0012	U	0.0034	0.0012	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,2-Dichloroethane	0.0010	U	0.0034	0.0010	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,2-Dichloropropane	0.0015	U	0.0034	0.0015	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,3-Dichlorobenzene	0.0013	U	0.0034	0.0013	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
1,4-Dichlorobenzene	0.00077	U	0.0034	0.00077	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
2-Butanone (MEK)	0.0013	U	0.017	0.0013	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
2-Hexanone	0.0059	U *-	0.017	0.0059	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
4-Methyl-2-pentanone (MIBK)	0.0054	U *-	0.017	0.0054	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Acetone	**0.099**		0.021	0.020	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Benzene	0.00089	U	0.0034	0.00089	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Bromodichloromethane	0.00089	U	0.0034	0.00089	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Bromoform	0.0015	U	0.0034	0.0015	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Bromomethane	0.0034	U *+	0.0069	0.0034	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Carbon disulfide	0.00092	U	0.0034	0.00092	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Carbon tetrachloride	0.0013	U	0.0034	0.0013	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Chlorobenzene	0.00061	U	0.0034	0.00061	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Chlorobromomethane	0.00097	U *+	0.0034	0.00097	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Chloroethane	0.0018	U	0.0034	0.0018	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Chloroform	0.0033	U	0.0034	0.0033	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Chloromethane	0.0015	U	0.0034	0.0015	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
cis-1,2-Dichloroethene	0.0012	U	0.0034	0.0012	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
cis-1,3-Dichloropropene	0.00094	U	0.0034	0.00094	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Cyclohexane	0.00076	U	0.0034	0.00076	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Dibromochloromethane	0.00067	U	0.0034	0.00067	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Dichlorodifluoromethane	0.0012	U	0.0034	0.0012	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Ethylbenzene	0.00069	U	0.0034	0.00069	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Isopropylbenzene	0.00098	U	0.0034	0.00098	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Methyl acetate	0.015	U *+	0.017	0.015	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Methyl tert-butyl ether	0.0018	U	0.0034	0.0018	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Methylcyclohexane	0.0017	U	0.0034	0.0017	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Methylene Chloride	0.0039	U	0.0069	0.0039	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1

Client Sample ID: IB-01-TS
Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10
Matrix: Solid
Percent Solids: 86.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**0.0015**	**J**	0.0034	0.00060	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
o-Xylene	**0.00090**	**J**	0.0034	0.00067	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Styrene	0.00096	U	0.0034	0.00096	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Tetrachloroethene	0.0011	U	0.0034	0.0011	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Toluene	0.00081	U	0.0034	0.00081	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
trans-1,2-Dichloroethene	0.00085	U	0.0034	0.00085	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
trans-1,3-Dichloropropene	0.00092	U	0.0034	0.00092	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Trichloroethene	0.0011	U	0.0034	0.0011	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Trichlorofluoromethane	0.0014	U	0.0034	0.0014	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1
Vinyl chloride	0.0019	U	0.0034	0.0019	mg/Kg	☼	01/25/25 11:10	01/29/25 22:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:10*	*01/29/25 22:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*65 - 138*	*01/25/25 11:10*	*01/29/25 22:14*	*1*
4-Bromofluorobenzene	*94*		*71 - 128*	*01/25/25 11:10*	*01/29/25 22:14*	*1*
Dibromofluoromethane (Surr)	*121*		*50 - 150*	*01/25/25 11:10*	*01/29/25 22:14*	*1*
Toluene-d8 (Surr)	*93*		*71 - 126*	*01/25/25 11:10*	*01/29/25 22:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.013	U	0.38	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
1,2,4-Trichlorobenzene	0.0098	U	0.038	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
1,2-Dichlorobenzene	0.0065	U	0.38	0.0065	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
1,2-Diphenylhydrazine	0.015	U	0.38	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
1,3-Dichlorobenzene	0.012	U	0.38	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
1,4-Dichlorobenzene	0.014	U	0.38	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2,4,5-Trichlorophenol	0.039	U	0.38	0.039	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2,4,6-Trichlorophenol	0.049	U	0.15	0.049	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2,4-Dichlorophenol	0.024	U	0.15	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2,4-Dimethylphenol	0.045	U	0.38	0.045	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2,4-Dinitrophenol	0.19	U	0.31	0.19	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2,4-Dinitrotoluene	0.041	U	0.077	0.041	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2,6-Dinitrotoluene	0.027	U	0.077	0.027	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2-Chloronaphthalene	0.018	U	0.38	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2-Chlorophenol	0.014	U	0.38	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2-Methylnaphthalene	0.011	U	0.38	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2-Methylphenol	0.014	U	0.38	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2-Nitroaniline	0.029	U	0.38	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
2-Nitrophenol	0.038	U	0.38	0.038	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
3,3'-Dichlorobenzidine	0.057	U	0.15	0.057	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
3-Nitroaniline	0.090	U	0.38	0.090	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
4,6-Dinitro-2-methylphenol	0.16	U	0.31	0.16	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
4-Bromophenyl phenyl ether	0.015	U	0.38	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
4-Chloro-3-methylphenol	0.021	U	0.38	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
4-Chloroaniline	0.067	U	0.38	0.067	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
4-Chlorophenyl phenyl ether	0.013	U	0.38	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
4-Methylphenol	0.024	U	0.38	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
4-Nitroaniline	0.044	U	0.38	0.044	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-01-TS
Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10
Matrix: Solid
Percent Solids: 86.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.062	U	0.77	0.062	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Acenaphthene	0.011	U	0.38	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Acenaphthylene	0.011	U	0.38	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Acetophenone	0.019	U	0.38	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Anthracene	0.012	U	0.38	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Atrazine	0.022	U	0.15	0.022	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Benzaldehyde	0.063	U	0.38	0.063	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Benzidine	0.080	U	0.38	0.080	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Benzo[a]anthracene	0.029	U	0.038	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Benzo[a]pyrene	0.010	U	0.038	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Benzo[b]fluoranthene	**0.016**	**J**	0.038	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Benzo[g,h,i]perylene	0.011	U	0.38	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Benzo[k]fluoranthene	0.0075	U	0.038	0.0075	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
bis (2-chloroisopropyl) ether	0.023	U	0.38	0.023	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Bis(2-chloroethoxy)methane	0.030	U	0.38	0.030	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Bis(2-chloroethyl)ether	0.013	U	0.038	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Bis(2-ethylhexyl) phthalate	0.020	U	0.38	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Butyl benzyl phthalate	0.018	U	0.38	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Caprolactam	0.059	U	0.38	0.059	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Carbazole	0.014	U	0.38	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Chrysene	0.016	U	0.38	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Dibenz(a,h)anthracene	0.016	U	0.038	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Dibenzofuran	0.013	U	0.38	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Diethyl phthalate	0.012	U	0.38	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Dimethyl phthalate	0.086	U	0.38	0.086	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Di-n-butyl phthalate	0.014	U	0.38	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Di-n-octyl phthalate	0.020	U	0.38	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Fluoranthene	**0.018**	**J**	0.38	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Fluorene	0.011	U	0.38	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Hexachlorobenzene	0.018	U	0.038	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Hexachlorobutadiene	0.0081	U	0.077	0.0081	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Hexachlorocyclopentadiene	0.033	U	0.38	0.033	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Hexachloroethane	0.013	U	0.038	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Indeno[1,2,3-cd]pyrene	0.015	U	0.038	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Naphthalene	0.0066	U	0.38	0.0066	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Nitrobenzene	0.021	U	0.038	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
N-Nitrosodimethylamine	0.035	U	0.38	0.035	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
N-Nitrosodi-n-propylamine	0.028	U	0.038	0.028	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
N-Nitrosodiphenylamine	0.031	U	0.38	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Pentachlorophenol	0.078	U	0.31	0.078	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Phenanthrene	0.016	U	0.38	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Phenol	0.014	U	0.38	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1
Pyrene	**0.016**	**J**	0.38	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 03:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1R-.alpha.-Pinene	*3.1*	*J N*	*mg/Kg*	☼	*3.67*	*7785-70-8*	*01/28/25 10:34*	*01/29/25 03:24*	*1*
1,3-Benzodioxole, 5-(2-propenyl)-	*1.8*	*J N*	*mg/Kg*	☼	*6.18*	*94-59-7*	*01/28/25 10:34*	*01/29/25 03:24*	*1*
n-Hexadecanoic acid	*0.84*	*J N*	*mg/Kg*	☼	*9.21*	*57-10-3*	*01/28/25 10:34*	*01/29/25 03:24*	*1*

Client Sample ID: IB-01-TS

Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10

Matrix: Solid
Percent Solids: 86.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	2.3	J N	mg/Kg	☼	11.13	5155-70-4	01/28/25 10:34	01/29/25 03:24	1
Bromoacetic acid, octadecyl ester	1.2	J N	mg/Kg	☼	11.21	18992-03-5	01/28/25 10:34	01/29/25 03:24	1
Nonadecanoic acid	1.1	J N	mg/Kg	☼	11.50	646-30-0	01/28/25 10:34	01/29/25 03:24	1
Unknown	0.79	J	mg/Kg	☼	11.62	N/A	01/28/25 10:34	01/29/25 03:24	1
1-Nonadecene	3.7	J N	mg/Kg	☼	12.08	18435-45-5	01/28/25 10:34	01/29/25 03:24	1
Tetracosanoic acid	2.4	J N	mg/Kg	☼	12.42	557-59-5	01/28/25 10:34	01/29/25 03:24	1
2- Chloropropionic acid, octadecyl ester	1.1	J N	mg/Kg	☼	12.95	88104-31-8	01/28/25 10:34	01/29/25 03:24	1
Cyclotetracosane	1.2	J N	mg/Kg	☼	13.07	297-03-0	01/28/25 10:34	01/29/25 03:24	1
Hexacosanoic acid	0.92	J N	mg/Kg	☼	13.44	506-46-7	01/28/25 10:34	01/29/25 03:24	1
Unknown	0.92	J	mg/Kg	☼	13.50	N/A	01/28/25 10:34	01/29/25 03:24	1
Unknown	1.1	J	mg/Kg	☼	14.10	N/A	01/28/25 10:34	01/29/25 03:24	1
Unknown	2.3	J	mg/Kg	☼	14.15	N/A	01/28/25 10:34	01/29/25 03:24	1
Unknown	3.8	J	mg/Kg	☼	15.29	N/A	01/28/25 10:34	01/29/25 03:24	1
Unknown	3.2	J	mg/Kg	☼	15.46	N/A	01/28/25 10:34	01/29/25 03:24	1
D-Friedoolean-14-en-3-one	6.1	J N	mg/Kg	☼	15.69	514-07-8	01/28/25 10:34	01/29/25 03:24	1
Unknown	1.9	J	mg/Kg	☼	15.95	N/A	01/28/25 10:34	01/29/25 03:24	1
Friedelan-3-one	1.4	J N	mg/Kg	☼	17.28	559-74-0	01/28/25 10:34	01/29/25 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	46		24 - 137	01/28/25 10:34	01/29/25 03:24	1
2-Fluorobiphenyl	46		38 - 128	01/28/25 10:34	01/29/25 03:24	1
2-Fluorophenol (Surr)	41		31 - 133	01/28/25 10:34	01/29/25 03:24	1
Nitrobenzene-d5 (Surr)	45		31 - 120	01/28/25 10:34	01/29/25 03:24	1
Phenol-d5 (Surr)	42		35 - 132	01/28/25 10:34	01/29/25 03:24	1
Terphenyl-d14 (Surr)	46		44 - 147	01/28/25 10:34	01/29/25 03:24	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0013	U	0.0077	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
4,4'-DDE	0.00091	U	0.0077	0.00091	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
4,4'-DDT	0.0014	U	0.0077	0.0014	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Aldrin	0.0012	U	0.0077	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
alpha-BHC	0.00078	U	0.0023	0.00078	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
beta-BHC	0.00086	U	0.0023	0.00086	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
delta-BHC	0.00047	U	0.0023	0.00047	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Dieldrin	0.0010	U	0.0023	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Endosulfan I	0.0012	U	0.0077	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Endosulfan II	0.0020	U	0.0077	0.0020	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Endosulfan sulfate	0.00096	U	0.0077	0.00096	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Endrin	0.0011	U	0.0077	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Endrin aldehyde	0.0018	U	0.0077	0.0018	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Endrin ketone	0.0015	U	0.0077	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
gamma-BHC (Lindane)	0.00071	U	0.0023	0.00071	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Heptachlor	0.00091	U	0.0077	0.00091	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Heptachlor epoxide	0.0011	U	0.0077	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Methoxychlor	0.0018	U	0.0077	0.0018	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Toxaphene	0.028	U	0.077	0.028	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1
Chlordane (n.o.s.)	0.019	U	0.077	0.019	mg/Kg	☼	01/28/25 06:14	01/28/25 17:03	1

Client Sample ID: IB-01-TS
Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10
Matrix: Solid
Percent Solids: 86.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:03*	*1*
DCB Decachlorobiphenyl	*61*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:03*	*1*
Tetrachloro-m-xylene	*53*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:03*	*1*
Tetrachloro-m-xylene	*53*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:03*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Aroclor 1221	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Aroclor 1232	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Aroclor 1242	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Aroclor 1248	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Aroclor 1254	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Aroclor 1260	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Aroclor-1262	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Aroclor 1268	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1
Polychlorinated biphenyls, Total	0.020	U	0.077	0.020	mg/Kg	☼	01/28/25 06:19	01/28/25 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:04*	*1*
DCB Decachlorobiphenyl	*114*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:04*	*1*
Tetrachloro-m-xylene	*98*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:04*	*1*
Tetrachloro-m-xylene	*98*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:04*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**29**		2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	**29**		2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.3	U	2.3	2.3	mg/Kg	☼	01/29/25 22:14	01/30/25 18:07	1
C9-C12 Aliphatics	3.4	U	3.4	3.4	mg/Kg	☼	01/29/25 22:14	01/30/25 18:07	1
C16-C21 Aliphatics	2.3	U *1	2.3	2.3	mg/Kg	☼	01/29/25 22:14	01/30/25 18:07	1
C21-C40 Aliphatics	8.0	U *1	8.0	8.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:07	1
C16-C21 Aromatics	5.7	U	5.7	5.7	mg/Kg	☼	01/29/25 22:14	01/30/25 18:07	1
C10-C12 Aromatics	**4.0**		2.3	2.3	mg/Kg	☼	01/29/25 22:14	01/30/25 18:07	1
C12-C16 Aromatics	3.4	U	3.4	3.4	mg/Kg	☼	01/29/25 22:14	01/30/25 18:07	1
C21-C36 Aromatic	**26**		9.2	9.2	mg/Kg	☼	01/29/25 22:14	01/30/25 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:07*	*1*
2-Fluorobiphenyl	*77*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:07*	*1*
2-Bromonaphthalene	*77*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:07*	*1*
1-Chlorooctadecane	*57*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:07*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**398**		20.5	5.6	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Antimony	**0.26**	**J**	1.0	0.15	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1

Client Sample ID: IB-01-TS

Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10

Matrix: Solid
Percent Solids: 86.9

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.55	J	1.0	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Barium	7.6		2.1	0.15	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Beryllium	0.059	U	0.41	0.059	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Cadmium	0.12	U	1.0	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Calcium	1230		103	41.8	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Chromium	1.5	J	2.1	0.93	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Cobalt	0.15	U	2.1	0.15	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Copper	2.9		2.1	0.38	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Iron	716		61.6	20.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Lead	12.2		0.62	0.21	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Magnesium	107		103	10.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Manganese	38.9		4.1	0.41	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Nickel	0.80	J	2.1	0.48	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Potassium	112		103	16.6	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Selenium	0.17	J	1.3	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Silver	0.091	U	0.41	0.091	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Sodium	46.9	U	103	46.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Thallium	0.042	U	0.41	0.042	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Vanadium	2.5		2.1	0.21	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1
Zinc	8.0	J	8.2	3.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020	0.0092	mg/Kg	☼	01/29/25 00:52	01/29/25 04:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.15	U	0.28	0.15	mg/Kg	☼	01/29/25 18:15	01/29/25 21:32	1
Percent Moisture (EPA Moisture)	13.1		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	86.9		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-01-CS

Date Collected: 01/24/25 08:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-11

Matrix: Solid
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,1,2,2-Tetrachloroethane	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00037	U	0.0012	0.00037	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,1,2-Trichloroethane	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,1-Dichloroethane	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,1-Dichloroethene	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,2,3-Trichlorobenzene	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,2,4-Trichlorobenzene	0.00044	U	0.0012	0.00044	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,2-Dibromo-3-Chloropropane	0.00057	U *+	0.0012	0.00057	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,2-Dibromoethane	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,2-Dichlorobenzene	0.00045	U	0.0012	0.00045	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,2-Dichloroethane	0.00037	U	0.0012	0.00037	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,2-Dichloropropane	0.00052	U	0.0012	0.00052	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-01-CS
Date Collected: 01/24/25 08:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-11
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00045	U	0.0012	0.00045	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
1,4-Dichlorobenzene	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
2-Butanone (MEK)	0.00046	U	0.0062	0.00046	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
2-Hexanone	0.0021	U *-	0.0062	0.0021	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
4-Methyl-2-pentanone (MIBK)	0.0019	U *-	0.0062	0.0019	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Acetone	**0.011**		0.0074	0.0071	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Benzene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Bromodichloromethane	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Bromoform	0.00053	U	0.0012	0.00053	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Bromomethane	0.0012	U *+	0.0025	0.0012	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Carbon disulfide	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Carbon tetrachloride	0.00048	U	0.0012	0.00048	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Chlorobenzene	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Chlorobromomethane	0.00035	U *+	0.0012	0.00035	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Chloroethane	0.00065	U	0.0012	0.00065	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Chloroform	0.0012	U	0.0012	0.0012	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Chloromethane	0.00054	U	0.0012	0.00054	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
cis-1,2-Dichloroethene	0.00044	U	0.0012	0.00044	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
cis-1,3-Dichloropropene	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Cyclohexane	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Dibromochloromethane	0.00024	U	0.0012	0.00024	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Dichlorodifluoromethane	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Ethylbenzene	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Isopropylbenzene	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Methyl acetate	0.0053	U *+	0.0062	0.0053	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Methyl tert-butyl ether	0.00064	U	0.0012	0.00064	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Methylcyclohexane	0.00062	U	0.0012	0.00062	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Methylene Chloride	0.0014	U	0.0025	0.0014	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
m-Xylene & p-Xylene	**0.00046**	**J**	0.0012	0.00022	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
o-Xylene	**0.00036**	**J**	0.0012	0.00024	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Styrene	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Tetrachloroethene	0.00038	U	0.0012	0.00038	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Toluene	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
trans-1,2-Dichloroethene	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
trans-1,3-Dichloropropene	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Trichloroethene	0.00040	U	0.0012	0.00040	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Trichlorofluoromethane	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1
Vinyl chloride	0.00068	U	0.0012	0.00068	mg/Kg	☼	01/25/25 11:11	01/29/25 22:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:11*	*01/29/25 22:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/25/25 11:11*	*01/29/25 22:37*	*1*
4-Bromofluorobenzene	*85*		*71 - 128*	*01/25/25 11:11*	*01/29/25 22:37*	*1*
Dibromofluoromethane (Surr)	*118*		*50 - 150*	*01/25/25 11:11*	*01/29/25 22:37*	*1*
Toluene-d8 (Surr)	*89*		*71 - 126*	*01/25/25 11:11*	*01/29/25 22:37*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-01-CS
Date Collected: 01/24/25 08:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-11
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
4-Nitrophenol	0.054	U	0.68	0.054	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1

Client Sample ID: IB-01-CS
Date Collected: 01/24/25 08:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-11
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/28/25 23:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/28/25 10:34*	*01/28/25 23:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*24 - 137*	*01/28/25 10:34*	*01/28/25 23:19*	*1*
2-Fluorobiphenyl	*68*		*38 - 128*	*01/28/25 10:34*	*01/28/25 23:19*	*1*
2-Fluorophenol (Surr)	*56*		*31 - 133*	*01/28/25 10:34*	*01/28/25 23:19*	*1*
Nitrobenzene-d5 (Surr)	*63*		*31 - 120*	*01/28/25 10:34*	*01/28/25 23:19*	*1*
Phenol-d5 (Surr)	*63*		*35 - 132*	*01/28/25 10:34*	*01/28/25 23:19*	*1*
Terphenyl-d14 (Surr)	*72*		*44 - 147*	*01/28/25 10:34*	*01/28/25 23:19*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Endrin	0.00097	U	0.0067	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1

Client Sample ID: IB-01-CS
Date Collected: 01/24/25 08:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-11
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:16*	*1*
DCB Decachlorobiphenyl	*78*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:16*	*1*
Tetrachloro-m-xylene	*71*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:16*	*1*
Tetrachloro-m-xylene	*69*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:16*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*146*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:21*	*1*
DCB Decachlorobiphenyl	*88*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:21*	*1*
Tetrachloro-m-xylene	*84*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:21*	*1*
Tetrachloro-m-xylene	*85*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:21*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:22	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:22	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:22	1
C21-C40 Aliphatics	7.1	U *1	7.1	7.1	mg/Kg	☼	01/29/25 22:14	01/30/25 18:22	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:22	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:22	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:22	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 18:22	1

Client Sample ID: IB-01-CS

Date Collected: 01/24/25 08:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-11

Matrix: Solid
Percent Solids: 99.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:22*	*1*
2-Fluorobiphenyl	*85*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:22*	*1*
2-Bromonaphthalene	*82*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:22*	*1*
1-Chlorooctadecane	*87*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:22*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1380**		18.4	5.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Arsenic	**0.48**	**J**	0.92	0.095	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Barium	**1.7**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Calcium	**45.0**	**J**	91.8	37.4	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Chromium	**3.2**		1.8	0.83	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Cobalt	0.14	U	1.8	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Copper	**0.87**	**J**	1.8	0.34	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Iron	**1490**		55.1	18.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Lead	**2.1**		0.55	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Magnesium	**50.6**	**J**	91.8	9.4	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Manganese	**4.4**		3.7	0.37	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Nickel	**0.46**	**J**	1.8	0.43	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Potassium	**33.1**	**J**	91.8	14.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Sodium	41.9	U	91.8	41.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Vanadium	**3.5**		1.8	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1
Zinc	2.8	U	7.3	2.8	mg/Kg	☼	01/29/25 07:26	01/30/25 15:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0079	U	0.017	0.0079	mg/Kg	☼	01/29/25 00:52	01/29/25 04:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/29/25 18:15	01/29/25 21:33	1
Percent Moisture (EPA Moisture)	**1**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.0**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: Dup-04

Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,1,2,2-Tetrachloroethane	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00037	U	0.0012	0.00037	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,1,2-Trichloroethane	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,1-Dichloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1

Client Sample ID: Dup-04
Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,2,3-Trichlorobenzene	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,2,4-Trichlorobenzene	0.00044	U	0.0012	0.00044	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,2-Dibromo-3-Chloropropane	0.00057	U *+	0.0012	0.00057	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,2-Dibromoethane	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,2-Dichlorobenzene	0.00045	U	0.0012	0.00045	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,2-Dichloroethane	0.00037	U	0.0012	0.00037	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,2-Dichloropropane	0.00052	U	0.0012	0.00052	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,3-Dichlorobenzene	0.00045	U	0.0012	0.00045	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
1,4-Dichlorobenzene	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
2-Butanone (MEK)	0.00045	U	0.0062	0.00045	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
2-Hexanone	0.0021	U *-	0.0062	0.0021	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
4-Methyl-2-pentanone (MIBK)	0.0019	U *-	0.0062	0.0019	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Acetone	**0.016**		0.0074	0.0071	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Benzene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Bromodichloromethane	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Bromoform	0.00052	U	0.0012	0.00052	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Bromomethane	0.0012	U *+	0.0025	0.0012	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Carbon disulfide	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Carbon tetrachloride	0.00048	U	0.0012	0.00048	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Chlorobenzene	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Chlorobromomethane	0.00035	U *+	0.0012	0.00035	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Chloroethane	0.00064	U	0.0012	0.00064	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Chloroform	0.0012	U	0.0012	0.0012	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Chloromethane	0.00054	U	0.0012	0.00054	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
cis-1,2-Dichloroethene	0.00044	U	0.0012	0.00044	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
cis-1,3-Dichloropropene	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Cyclohexane	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Dibromochloromethane	0.00024	U	0.0012	0.00024	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Dichlorodifluoromethane	0.00042	U	0.0012	0.00042	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Ethylbenzene	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Isopropylbenzene	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Methyl acetate	0.0053	U *+	0.0062	0.0053	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Methyl tert-butyl ether	0.00063	U	0.0012	0.00063	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Methylcyclohexane	0.00062	U	0.0012	0.00062	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Methylene Chloride	0.0014	U	0.0025	0.0014	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
m-Xylene & p-Xylene	**0.00068**	**J**	0.0012	0.00021	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
o-Xylene	**0.00049**	**J**	0.0012	0.00024	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Styrene	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Tetrachloroethene	0.00038	U	0.0012	0.00038	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Toluene	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
trans-1,2-Dichloroethene	0.00030	U	0.0012	0.00030	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
trans-1,3-Dichloropropene	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Trichloroethene	0.00040	U	0.0012	0.00040	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Trichlorofluoromethane	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1
Vinyl chloride	0.00067	U	0.0012	0.00067	mg/Kg	☼	01/25/25 11:12	01/29/25 23:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:12*	*01/29/25 23:01*	*1*

Client Sample ID: Dup-04

Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12

Matrix: Solid
Percent Solids: 99.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/25/25 11:12*	*01/29/25 23:01*	*1*
4-Bromofluorobenzene	*87*		*71 - 128*	*01/25/25 11:12*	*01/29/25 23:01*	*1*
Dibromofluoromethane (Surr)	*118*		*50 - 150*	*01/25/25 11:12*	*01/29/25 23:01*	*1*
Toluene-d8 (Surr)	*89*		*71 - 126*	*01/25/25 11:12*	*01/29/25 23:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1

Client Sample ID: Dup-04
Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/28/25 23:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1S-.alpha.-Pinene	*1.2*	*J N*	*mg/Kg*	☼	*3.67*	*7785-26-4*	*01/28/25 10:34*	*01/28/25 23:41*	*1*
.beta.-Pinene	*0.31*	*J N*	*mg/Kg*	☼	*4.06*	*127-91-3*	*01/28/25 10:34*	*01/28/25 23:41*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.31*	*J N*	*mg/Kg*	☼	*11.12*	*1740-19-8*	*01/28/25 10:34*	*01/28/25 23:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*24 - 137*	*01/28/25 10:34*	*01/28/25 23:41*	*1*
2-Fluorobiphenyl	*53*		*38 - 128*	*01/28/25 10:34*	*01/28/25 23:41*	*1*
2-Fluorophenol (Surr)	*44*		*31 - 133*	*01/28/25 10:34*	*01/28/25 23:41*	*1*
Nitrobenzene-d5 (Surr)	*50*		*31 - 120*	*01/28/25 10:34*	*01/28/25 23:41*	*1*
Phenol-d5 (Surr)	*50*		*35 - 132*	*01/28/25 10:34*	*01/28/25 23:41*	*1*
Terphenyl-d14 (Surr)	*58*		*44 - 147*	*01/28/25 10:34*	*01/28/25 23:41*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0068	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1

Client Sample ID: Dup-04
Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:29*	*1*
DCB Decachlorobiphenyl	*75*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:29*	*1*
Tetrachloro-m-xylene	*70*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:29*	*1*
Tetrachloro-m-xylene	*67*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:29*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:38*	*1*
DCB Decachlorobiphenyl	*120*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:38*	*1*
Tetrachloro-m-xylene	*97*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:38*	*1*
Tetrachloro-m-xylene	*98*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:38*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:38	1

Client Sample ID: Dup-04

Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12

Matrix: Solid
Percent Solids: 99.1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:38	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:38	1
C21-C40 Aliphatics	7.0	U *1	7.0	7.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:38	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:38	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:38	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:38	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:38*	*1*
2-Fluorobiphenyl	*88*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:38*	*1*
2-Bromonaphthalene	*88*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:38*	*1*
1-Chlorooctadecane	*80*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:38*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1320**		17.7	4.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Antimony	0.13	U	0.89	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Arsenic	**0.51**	**J**	0.89	0.091	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Barium	**1.7**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Beryllium	0.050	U	0.35	0.050	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Cadmium	0.10	U	0.89	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Calcium	**44.4**	**J**	88.5	36.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Chromium	**3.1**		1.8	0.80	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Cobalt	0.13	U	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Copper	**0.89**	**J**	1.8	0.33	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Iron	**1370**		53.1	17.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Lead	**2.1**		0.53	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Magnesium	**47.9**	**J**	88.5	9.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Manganese	**4.3**		3.5	0.36	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Nickel	**0.44**	**J**	1.8	0.42	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Potassium	**30.7**	**J**	88.5	14.3	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Silver	0.079	U	0.35	0.079	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Sodium	40.5	U	88.5	40.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Thallium	0.036	U	0.35	0.036	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Vanadium	**3.3**		1.8	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1
Zinc	2.7	U	7.1	2.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0078	U	0.017	0.0078	mg/Kg	☼	01/29/25 00:52	01/29/25 04:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.20	0.11	mg/Kg	☼	01/29/25 18:15	01/29/25 21:34	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.1**		1.0	1.0	%			01/27/25 07:37	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-05-CS-4
Date Collected: 01/24/25 09:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-13
Matrix: Solid
Percent Solids: 98.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,1,2-Trichloroethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,1-Dichloroethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,1-Dichloroethene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,2,3-Trichlorobenzene	0.00019	U H F1 F2	0.0011	0.00019	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,2,4-Trichlorobenzene	0.00038	U H F1	0.0011	0.00038	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,2-Dibromo-3-Chloropropane	0.00049	U H F1 *-	0.0011	0.00049	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,2-Dibromoethane	0.00019	U H F1	0.0011	0.00019	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,2-Dichlorobenzene	0.00038	U H F2	0.0011	0.00038	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,2-Dichloroethane	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,2-Dichloropropane	0.00045	U H	0.0011	0.00045	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,3-Dichlorobenzene	0.00038	U H F2	0.0011	0.00038	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
1,4-Dichlorobenzene	0.00024	U H F2	0.0011	0.00024	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
2-Butanone (MEK)	0.00039	U H	0.0053	0.00039	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
2-Hexanone	0.0018	U H F1	0.0053	0.0018	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
4-Methyl-2-pentanone (MIBK)	0.0016	U H	0.0053	0.0016	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Acetone	**0.0099**	**H**	0.0063	0.0060	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Benzene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Bromodichloromethane	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Bromoform	0.00045	U H F1	0.0011	0.00045	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Bromomethane	0.0011	U H F1 *+	0.0021	0.0011	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Carbon disulfide	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Carbon tetrachloride	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Chlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Chlorobromomethane	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Chloroethane	0.00055	U H	0.0011	0.00055	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Chloroform	0.0010	U H	0.0011	0.0010	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Chloromethane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
cis-1,2-Dichloroethene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
cis-1,3-Dichloropropene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Cyclohexane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Dibromochloromethane	0.00020	U H F1	0.0011	0.00020	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Dichlorodifluoromethane	0.00036	U H	0.0011	0.00036	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Ethylbenzene	0.00021	U H F2	0.0011	0.00021	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Isopropylbenzene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Methyl acetate	0.0045	U H F1	0.0053	0.0045	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Methyl tert-butyl ether	0.00054	U H	0.0011	0.00054	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Methylcyclohexane	0.00053	U H	0.0011	0.00053	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Methylene Chloride	0.0012	U H	0.0021	0.0012	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
m-Xylene & p-Xylene	0.00018	U H F2 F1	0.0011	0.00018	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
o-Xylene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Styrene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Tetrachloroethene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Toluene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
trans-1,2-Dichloroethene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
trans-1,3-Dichloropropene	0.00028	U H F1	0.0011	0.00028	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Trichloroethene	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1

Client Sample ID: IB-05-CS-4
Date Collected: 01/24/25 09:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-13
Matrix: Solid
Percent Solids: 98.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00043	U H	0.0011	0.00043	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1
Vinyl chloride	0.00058	U H	0.0011	0.00058	mg/Kg	☼	01/25/25 11:12	03/06/25 11:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:12*	*03/06/25 11:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*	*01/25/25 11:12*	*03/06/25 11:32*	*1*
4-Bromofluorobenzene	*100*		*71 - 128*	*01/25/25 11:12*	*03/06/25 11:32*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*01/25/25 11:12*	*03/06/25 11:32*	*1*
Toluene-d8 (Surr)	*109*		*71 - 126*	*01/25/25 11:12*	*03/06/25 11:32*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2,4-Dinitrotoluene	0.036	U H	0.068	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2,6-Dinitrotoluene	0.024	U H	0.068	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
4-Nitrophenol	0.054	U H	0.68	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Acenaphthylene	0.0096	U H	0.33	0.0096	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Benzidine	0.070	U H F1 *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-05-CS-4
Date Collected: 01/24/25 09:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-13
Matrix: Solid
Percent Solids: 98.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Benzo[g,h,i]perylene	0.0099	U H	0.33	0.0099	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Benzo[k]fluoranthene	0.0066	U H	0.033	0.0066	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Fluorene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Hexachlorobutadiene	0.0071	U H	0.068	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Isophorone	0.097	U H	0.13	0.097	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Nitrobenzene	0.019	U H	0.033	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Pentachlorophenol	0.069	U H	0.27	0.069	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:46	03/04/25 13:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 13:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*24 - 137*	*03/04/25 08:46*	*03/04/25 13:23*	*1*
2-Fluorobiphenyl	*62*		*38 - 128*	*03/04/25 08:46*	*03/04/25 13:23*	*1*
2-Fluorophenol (Surr)	*69*		*31 - 133*	*03/04/25 08:46*	*03/04/25 13:23*	*1*
Nitrobenzene-d5 (Surr)	*62*		*31 - 120*	*03/04/25 08:46*	*03/04/25 13:23*	*1*
Phenol-d5 (Surr)	*70*		*35 - 132*	*03/04/25 08:46*	*03/04/25 13:23*	*1*
Terphenyl-d14 (Surr)	*61*		*44 - 147*	*03/04/25 08:46*	*03/04/25 13:23*	*1*

Client Sample ID: IB-05-CS-4

Date Collected: 01/24/25 09:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-13

Matrix: Solid
Percent Solids: 98.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
4,4'-DDE	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
4,4'-DDT	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Dieldrin	0.00088	U H	0.0020	0.00088	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Endosulfan II	0.0017	U H	0.0068	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Endosulfan sulfate	0.00085	U H	0.0068	0.00085	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Endrin	0.00097	U H	0.0068	0.00097	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
gamma-BHC (Lindane)	0.00063	U H	0.0020	0.00063	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Heptachlor	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Methoxychlor	0.0015	U H	0.0068	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Toxaphene	0.024	U H	0.068	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1
Chlordane (n.o.s.)	0.016	U H	0.068	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*17 - 150*	*03/05/25 17:24*	*03/06/25 05:43*	*1*
DCB Decachlorobiphenyl	*60*		*17 - 150*	*03/05/25 17:24*	*03/06/25 05:43*	*1*
Tetrachloro-m-xylene	*95*		*21 - 150*	*03/05/25 17:24*	*03/06/25 05:43*	*1*
Tetrachloro-m-xylene	*91*		*21 - 150*	*03/05/25 17:24*	*03/06/25 05:43*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:03*	*1*
DCB Decachlorobiphenyl	*65*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:03*	*1*
Tetrachloro-m-xylene	*88*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:03*	*1*
Tetrachloro-m-xylene	*116*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:03*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Client Sample ID: IB-05-CS-4

Date Collected: 01/24/25 09:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-13

Matrix: Solid
Percent Solids: 98.8

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:13	1
C9-C12 Aliphatics	3.0	U H F1	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:13	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:13	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/06/25 22:12	03/07/25 10:13	1
C16-C21 Aromatics	5.1	U H	5.1	5.1	mg/Kg	☼	03/06/25 22:12	03/07/25 09:57	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 09:57	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 09:57	1
C21-C36 Aromatic	8.1	U H	8.1	8.1	mg/Kg	☼	03/06/25 22:12	03/07/25 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*40 - 140*	*03/06/25 22:12*	*03/07/25 09:57*	*1*
2-Fluorobiphenyl	*86*		*40 - 140*	*03/06/25 22:12*	*03/07/25 09:57*	*1*
2-Bromonaphthalene	*75*		*40 - 140*	*03/06/25 22:12*	*03/07/25 09:57*	*1*
1-Chlorooctadecane	*50*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:13*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1570**	**F2 F1**	16.3	4.5	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Antimony	0.12	U F1	0.82	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Arsenic	**0.46**	**J F1**	0.82	0.084	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Barium	**1.8**		1.6	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Beryllium	0.047	U F1	0.33	0.047	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Cadmium	0.092	U F1	0.82	0.092	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Calcium	33.2	U F1	81.6	33.2	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Chromium	**3.4**	**F1**	1.6	0.74	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Cobalt	**0.13**	**J F1**	1.6	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Copper	**0.85**	**J F1**	1.6	0.30	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Iron	**1310**	**F2 F1**	49.0	16.5	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Lead	**1.3**		0.49	0.16	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Magnesium	**80.8**	**J**	81.6	8.3	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Manganese	**3.8**	**F1**	3.3	0.33	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Nickel	**0.61**	**J F1**	1.6	0.38	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Potassium	**51.0**	**J**	81.6	13.2	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Selenium	0.10	U F1	1.0	0.10	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Silver	0.073	U	0.33	0.073	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Sodium	37.3	U F1	81.6	37.3	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Thallium	0.033	U F1	0.33	0.033	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Vanadium	**2.9**	**F1**	1.6	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1
Zinc	2.5	U F1	6.5	2.5	mg/Kg	☼	03/07/25 12:53	03/08/25 11:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U H	0.017	0.0080	mg/Kg	☼	03/07/25 01:20	03/07/25 06:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U H	0.21	0.11	mg/Kg	☼	03/07/25 18:23	03/09/25 16:04	1

Client Sample ID: IB-05-CS-4

Date Collected: 01/24/25 09:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-13

Matrix: Solid
Percent Solids: 98.8

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.2		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	98.8		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-05-CS-8

Date Collected: 01/24/25 09:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-14

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,1,2,2-Tetrachloroethane	0.00025	U H	0.0012	0.00025	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U H	0.0012	0.00035	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,1,2-Trichloroethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,1-Dichloroethane	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,1-Dichloroethene	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,2,3-Trichlorobenzene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,2,4-Trichlorobenzene	0.00041	U H	0.0012	0.00041	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,2-Dibromo-3-Chloropropane	0.00053	U H *-	0.0012	0.00053	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,2-Dibromoethane	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,2-Dichlorobenzene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,2-Dichloroethane	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,2-Dichloropropane	0.00049	U H	0.0012	0.00049	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,3-Dichlorobenzene	0.00042	U H	0.0012	0.00042	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
1,4-Dichlorobenzene	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
2-Butanone (MEK)	0.00042	U H	0.0058	0.00042	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
2-Hexanone	0.0020	U H	0.0058	0.0020	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
4-Methyl-2-pentanone (MIBK)	0.0018	U H	0.0058	0.0018	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Acetone	0.0066	U H	0.0069	0.0066	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Benzene	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Bromodichloromethane	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Bromoform	0.00049	U H	0.0012	0.00049	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Bromomethane	0.0012	U H *+	0.0023	0.0012	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Carbon disulfide	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Carbon tetrachloride	0.00045	U H	0.0012	0.00045	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Chlorobenzene	0.00020	U H	0.0012	0.00020	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Chlorobromomethane	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Chloroethane	0.00060	U H	0.0012	0.00060	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Chloroform	0.0011	U H	0.0012	0.0011	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Chloromethane	0.00050	U H	0.0012	0.00050	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
cis-1,2-Dichloroethene	0.00041	U H	0.0012	0.00041	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
cis-1,3-Dichloropropene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Cyclohexane	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Dibromochloromethane	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Dichlorodifluoromethane	0.00039	U H	0.0012	0.00039	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Ethylbenzene	0.00023	U H	0.0012	0.00023	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Isopropylbenzene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Methyl acetate	0.0050	U H	0.0058	0.0050	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Methyl tert-butyl ether	0.00059	U H	0.0012	0.00059	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Methylcyclohexane	0.00058	U H	0.0012	0.00058	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Methylene Chloride	0.0013	U H	0.0023	0.0013	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1

Client Sample ID: IB-05-CS-8
Date Collected: 01/24/25 09:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-14
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00020	U H	0.0012	0.00020	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
o-Xylene	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Styrene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Tetrachloroethene	0.00035	U H	0.0012	0.00035	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Toluene	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
trans-1,2-Dichloroethene	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
trans-1,3-Dichloropropene	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Trichloroethene	0.00037	U H	0.0012	0.00037	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Trichlorofluoromethane	0.00047	U H	0.0012	0.00047	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1
Vinyl chloride	0.00063	U H	0.0012	0.00063	mg/Kg	☼	01/25/25 11:14	03/06/25 13:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:14*	*03/06/25 13:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*	*01/25/25 11:14*	*03/06/25 13:04*	*1*
4-Bromofluorobenzene	*99*		*71 - 128*	*01/25/25 11:14*	*03/06/25 13:04*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 150*	*01/25/25 11:14*	*03/06/25 13:04*	*1*
Toluene-d8 (Surr)	*106*		*71 - 126*	*01/25/25 11:14*	*03/06/25 13:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1

Client Sample ID: IB-05-CS-8
Date Collected: 01/24/25 09:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-14
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Benzidine	0.070	U H *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:46	03/04/25 15:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 15:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*24 - 137*	*03/04/25 08:46*	*03/04/25 15:15*	*1*

Client Sample ID: IB-05-CS-8

Date Collected: 01/24/25 09:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-14

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		38 - 128	03/04/25 08:46	03/04/25 15:15	1
2-Fluorophenol (Surr)	88		31 - 133	03/04/25 08:46	03/04/25 15:15	1
Nitrobenzene-d5 (Surr)	83		31 - 120	03/04/25 08:46	03/04/25 15:15	1
Phenol-d5 (Surr)	89		35 - 132	03/04/25 08:46	03/04/25 15:15	1
Terphenyl-d14 (Surr)	77		44 - 147	03/04/25 08:46	03/04/25 15:15	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
4,4'-DDE	0.00080	U H	0.0067	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Dieldrin	0.00088	U H	0.0020	0.00088	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Endosulfan sulfate	0.00085	U H	0.0067	0.00085	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Endrin	0.00097	U H	0.0067	0.00097	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Heptachlor	0.00080	U H	0.0067	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	49		17 - 150	03/05/25 17:24	03/06/25 06:20	1
DCB Decachlorobiphenyl	47		17 - 150	03/05/25 17:24	03/06/25 06:20	1
Tetrachloro-m-xylene	77		21 - 150	03/05/25 17:24	03/06/25 06:20	1
Tetrachloro-m-xylene	73		21 - 150	03/05/25 17:24	03/06/25 06:20	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	44		20 - 150	03/05/25 17:15	03/06/25 11:20	1

Client Sample ID: IB-05-CS-8
Date Collected: 01/24/25 09:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-14
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*51*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:20*	*1*
Tetrachloro-m-xylene	*74*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:20*	*1*
Tetrachloro-m-xylene	*97*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:20*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:28	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:28	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:28	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/06/25 22:12	03/07/25 10:28	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:13	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:13	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 10:13	1
C21-C36 Aromatic	8.1	U H	8.1	8.1	mg/Kg	☼	03/06/25 22:12	03/07/25 10:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*72*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:13*	*1*
2-Fluorobiphenyl	*85*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:13*	*1*
2-Bromonaphthalene	*77*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:13*	*1*
1-Chlorooctadecane	*51*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:28*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1440**		15.2	4.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Antimony	0.11	U	0.76	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Arsenic	**0.35**	**J**	0.76	0.078	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Barium	**3.3**		1.5	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Beryllium	0.043	U	0.30	0.043	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Cadmium	0.086	U	0.76	0.086	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Calcium	**32.5**	**J**	75.9	30.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Chromium	**3.7**		1.5	0.69	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Cobalt	0.11	U	1.5	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Copper	**0.93**	**J**	1.5	0.28	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Iron	**1120**		45.5	15.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Lead	**1.2**		0.46	0.15	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Magnesium	**27.6**	**J**	75.9	7.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Manganese	**1.5**	**J**	3.0	0.31	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Nickel	0.36	U	1.5	0.36	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Potassium	**55.2**	**J**	75.9	12.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Selenium	0.097	U	0.95	0.097	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Silver	0.068	U	0.30	0.068	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Sodium	34.7	U	75.9	34.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Thallium	0.031	U	0.30	0.031	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1
Vanadium	**3.6**		1.5	0.16	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1

Client Sample ID: IB-05-CS-8

Lab Sample ID: 460-319275-14

Date Collected: 01/24/25 09:10
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.3	U	6.1	2.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0078	U H	0.017	0.0078	mg/Kg	☼	03/05/25 01:20	03/05/25 07:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 16:07	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 10:21	1
Percent Solids (EPA Moisture)	**99.1**		1.0	1.0	%			01/27/25 10:21	1

Client Sample ID: IB-04-CS-4

Lab Sample ID: 460-319275-15

Date Collected: 01/24/25 09:40
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 98.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U F1	0.0011	0.00026	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,1-Dichloroethene	0.00025	U F1	0.0011	0.00025	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,2,3-Trichlorobenzene	0.00020	U F1	0.0011	0.00020	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,2,4-Trichlorobenzene	0.00040	U F1	0.0011	0.00040	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,2-Dibromo-3-Chloropropane	0.00052	U *+	0.0011	0.00052	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,2-Dibromoethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,2-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,2-Dichloroethane	0.00033	U F1	0.0011	0.00033	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,2-Dichloropropane	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,3-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
2-Butanone (MEK)	0.00042	U	0.0056	0.00042	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
2-Hexanone	0.0019	U F1 *-	0.0056	0.0019	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
4-Methyl-2-pentanone (MIBK)	0.0018	U F1 *-	0.0056	0.0018	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Acetone	**0.0092**		0.0068	0.0065	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Benzene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Bromodichloromethane	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Bromoform	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Bromomethane	0.0011	U *+	0.0023	0.0011	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Carbon disulfide	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Carbon tetrachloride	0.00044	U	0.0011	0.00044	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Chlorobromomethane	0.00032	U *+	0.0011	0.00032	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Chloroethane	0.00059	U	0.0011	0.00059	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Chloromethane	0.00049	U	0.0011	0.00049	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
cis-1,2-Dichloroethene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1

Client Sample ID: IB-04-CS-4
Date Collected: 01/24/25 09:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-15
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Dibromochloromethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Dichlorodifluoromethane	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Isopropylbenzene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Methyl acetate	0.0049	U *+	0.0056	0.0049	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Methyl tert-butyl ether	0.00058	U	0.0011	0.00058	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Methylcyclohexane	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Methylene Chloride	0.0013	U	0.0023	0.0013	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
m-Xylene & p-Xylene	**0.00030**	**J**	0.0011	0.00020	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
o-Xylene	**0.00025**	**J**	0.0011	0.00022	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Tetrachloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
trans-1,3-Dichloropropene	0.00030	U F1	0.0011	0.00030	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Trichloroethene	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Trichlorofluoromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1
Vinyl chloride	0.00062	U	0.0011	0.00062	mg/Kg	☼	01/25/25 11:15	01/29/25 23:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Methyl-2-propanol	*11*		*ug/Kg*	☼	*3.46*	*75-65-0*	*01/25/25 11:15*	*01/29/25 23:24*	*1*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:15*	*01/29/25 23:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*	*01/25/25 11:15*	*01/29/25 23:24*	*1*
4-Bromofluorobenzene	*85*		*71 - 128*	*01/25/25 11:15*	*01/29/25 23:24*	*1*
Dibromofluoromethane (Surr)	*116*		*50 - 150*	*01/25/25 11:15*	*01/29/25 23:24*	*1*
Toluene-d8 (Surr)	*87*		*71 - 126*	*01/25/25 11:15*	*01/29/25 23:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
1,2-Dichlorobenzene	0.0057	U F1	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
1,3-Dichlorobenzene	0.010	U F1	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2,4-Dichlorophenol	0.022	U F1	0.13	0.022	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2-Chloronaphthalene	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2-Chlorophenol	0.012	U F1	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2-Methylnaphthalene	0.0094	U F1	0.33	0.0094	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-04-CS-4
Date Collected: 01/24/25 09:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-15
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
3-Nitroaniline	0.080	U	0.33	0.080	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
4-Chloro-3-methylphenol	0.019	U F1	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
4-Chloroaniline	0.060	U	0.33	0.060	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
4-Methylphenol	0.021	U F1	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
4-Nitroaniline	0.039	U	0.33	0.039	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Acenaphthene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Acetophenone	0.016	U F1	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Benzo[b]fluoranthene	0.0087	U F1	0.033	0.0087	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Chrysene	0.014	U F1	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Dibenz(a,h)anthracene	0.015	U	0.033	0.015	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Di-n-butyl phthalate	0.013	U F1	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Hexachloroethane	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Nitrobenzene	0.019	U F1	0.033	0.019	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
N-Nitrosodimethylamine	0.031	U F1	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1

Client Sample ID: IB-04-CS-4
Date Collected: 01/24/25 09:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-15
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Pentachlorophenol	0.069	U F1	0.27	0.069	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/28/25 21:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/28/25 10:34*	*01/28/25 21:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*59*		*24 - 137*	*01/28/25 10:34*	*01/28/25 21:05*	*1*
2-Fluorobiphenyl	*62*		*38 - 128*	*01/28/25 10:34*	*01/28/25 21:05*	*1*
2-Fluorophenol (Surr)	*52*		*31 - 133*	*01/28/25 10:34*	*01/28/25 21:05*	*1*
Nitrobenzene-d5 (Surr)	*59*		*31 - 120*	*01/28/25 10:34*	*01/28/25 21:05*	*1*
Phenol-d5 (Surr)	*59*		*35 - 132*	*01/28/25 10:34*	*01/28/25 21:05*	*1*
Terphenyl-d14 (Surr)	*66*		*44 - 147*	*01/28/25 10:34*	*01/28/25 21:05*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Dieldrin	0.00088	U F1	0.0020	0.00088	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/28/25 06:14	01/29/25 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*122*		*17 - 150*	*01/28/25 06:14*	*01/29/25 06:53*	*1*
DCB Decachlorobiphenyl	*110*		*17 - 150*	*01/28/25 06:14*	*01/29/25 06:53*	*1*
Tetrachloro-m-xylene	*91*		*21 - 150*	*01/28/25 06:14*	*01/29/25 06:53*	*1*
Tetrachloro-m-xylene	*97*		*21 - 150*	*01/28/25 06:14*	*01/29/25 06:53*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1

Client Sample ID: IB-04-CS-4

Date Collected: 01/24/25 09:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-15

Matrix: Solid
Percent Solids: 98.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1
Aroclor 1260	0.018	U F1	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:14*	*1*
DCB Decachlorobiphenyl	*103*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:14*	*1*
Tetrachloro-m-xylene	*94*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:14*	*1*
Tetrachloro-m-xylene	*93*		*20 - 150*	*01/28/25 06:19*	*01/28/25 16:14*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 17:20	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 17:20	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 17:20	1
C21-C40 Aliphatics	7.1	U *1	7.1	7.1	mg/Kg	☼	01/29/25 22:14	01/30/25 17:20	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/29/25 22:14	01/30/25 17:20	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 17:20	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 17:20	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*40 - 140*	*01/29/25 22:14*	*01/30/25 17:20*	*1*
2-Fluorobiphenyl	*92*		*40 - 140*	*01/29/25 22:14*	*01/30/25 17:20*	*1*
2-Bromonaphthalene	*91*		*40 - 140*	*01/29/25 22:14*	*01/30/25 17:20*	*1*
1-Chlorooctadecane	*82*		*40 - 140*	*01/29/25 22:14*	*01/30/25 17:20*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1880**	**F1**	20.3	5.6	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Antimony	0.15	U F1	1.0	0.15	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Arsenic	**0.56**	**J**	1.0	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Barium	**2.0**		2.0	0.15	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Beryllium	0.058	U	0.41	0.058	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Cadmium	0.11	U	1.0	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Calcium	41.3	U	101	41.3	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Chromium	**3.8**		2.0	0.92	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Cobalt	**0.22**	**J**	2.0	0.15	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Copper	**1.1**	**J**	2.0	0.37	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Iron	**1910**		60.9	20.5	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Lead	**1.9**		0.61	0.20	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1

Client Sample ID: IB-04-CS-4

Date Collected: 01/24/25 09:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-15

Matrix: Solid
Percent Solids: 98.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**45.6**	**J**	101	10.3	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Manganese	**14.0**		4.1	0.41	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Nickel	**0.58**	**J**	2.0	0.48	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Potassium	**36.9**	**J**	101	16.4	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Selenium	0.13	U	1.3	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Silver	0.090	U	0.41	0.090	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Sodium	46.4	U	101	46.4	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Thallium	0.042	U	0.41	0.042	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Vanadium	**4.2**		2.0	0.21	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1
Zinc	3.1	U	8.1	3.1	mg/Kg	☼	01/29/25 07:26	01/30/25 14:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.017	0.0080	mg/Kg	☼	01/29/25 00:52	01/29/25 04:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/29/25 18:15	01/29/25 21:35	1
Percent Moisture (EPA Moisture)	**1.4**		1.0	1.0	%			01/27/25 10:21	1
Percent Solids (EPA Moisture)	**98.6**		1.0	1.0	%			01/27/25 10:21	1

Client Sample ID: IB-04-CS-8

Date Collected: 01/24/25 09:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-16

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,2-Dibromo-3-Chloropropane	0.00047	U *+	0.0010	0.00047	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,2-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,2-Dichloropropane	0.00043	U	0.0010	0.00043	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
2-Butanone (MEK)	0.00037	U	0.0051	0.00037	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
2-Hexanone	0.0017	U *-	0.0051	0.0017	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
4-Methyl-2-pentanone (MIBK)	0.0016	U *-	0.0051	0.0016	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Acetone	**0.016**		0.0061	0.0058	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Bromomethane	0.0010	U *+	0.0020	0.0010	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-04-CS-8
Date Collected: 01/24/25 09:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-16
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Chlorobromomethane	0.00029	U *+	0.0010	0.00029	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Chloroethane	0.00053	U	0.0010	0.00053	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Chloroform	0.00099	U	0.0010	0.00099	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Dibromochloromethane	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Methyl acetate	0.0044	U *+	0.0051	0.0044	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Methyl tert-butyl ether	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Methylcyclohexane	0.00051	U	0.0010	0.00051	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Methylene Chloride	0.0012	U	0.0020	0.0012	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
m-Xylene & p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg	☼	01/25/25 11:17	01/29/25 23:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:17*	*01/29/25 23:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*	*01/25/25 11:17*	*01/29/25 23:47*	*1*
4-Bromofluorobenzene	*84*		*71 - 128*	*01/25/25 11:17*	*01/29/25 23:47*	*1*
Dibromofluoromethane (Surr)	*117*		*50 - 150*	*01/25/25 11:17*	*01/29/25 23:47*	*1*
Toluene-d8 (Surr)	*88*		*71 - 126*	*01/25/25 11:17*	*01/29/25 23:47*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-04-CS-8
Date Collected: 01/24/25 09:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-16
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1

Client Sample ID: IB-04-CS-8

Date Collected: 01/24/25 09:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-16

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/29/25 04:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.91*	*A J*	*mg/Kg*	☼	*2.80*	*N/A*	*01/28/25 10:34*	*01/29/25 04:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*24 - 137*	*01/28/25 10:34*	*01/29/25 04:54*	*1*
2-Fluorobiphenyl	*53*		*38 - 128*	*01/28/25 10:34*	*01/29/25 04:54*	*1*
2-Fluorophenol (Surr)	*46*		*31 - 133*	*01/28/25 10:34*	*01/29/25 04:54*	*1*
Nitrobenzene-d5 (Surr)	*49*		*31 - 120*	*01/28/25 10:34*	*01/29/25 04:54*	*1*
Phenol-d5 (Surr)	*49*		*35 - 132*	*01/28/25 10:34*	*01/29/25 04:54*	*1*
Terphenyl-d14 (Surr)	*55*		*44 - 147*	*01/28/25 10:34*	*01/29/25 04:54*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:42*	*1*

Client Sample ID: IB-04-CS-8
Date Collected: 01/24/25 09:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-16
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:42*	*1*
Tetrachloro-m-xylene	*79*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:42*	*1*
Tetrachloro-m-xylene	*79*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:42*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:54*	*1*
DCB Decachlorobiphenyl	*101*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:54*	*1*
Tetrachloro-m-xylene	*86*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:54*	*1*
Tetrachloro-m-xylene	*87*		*20 - 150*	*01/28/25 06:19*	*01/28/25 17:54*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:53	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:53	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:53	1
C21-C40 Aliphatics	7.0	U *1	7.0	7.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:53	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:53	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:53	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:53	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/29/25 22:14	01/30/25 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:53*	*1*
2-Fluorobiphenyl	*83*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:53*	*1*
2-Bromonaphthalene	*83*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:53*	*1*
1-Chlorooctadecane	*69*		*40 - 140*	*01/29/25 22:14*	*01/30/25 18:53*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1540**		17.9	4.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1

Client Sample ID: IB-04-CS-8

Date Collected: 01/24/25 09:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-16

Matrix: Solid
Percent Solids: 99.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.1**		0.90	0.092	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Barium	**1.1**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Calcium	36.5	U	89.7	36.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Chromium	**4.1**		1.8	0.81	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Cobalt	**0.18**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Copper	**1.1**	**J**	1.8	0.33	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Iron	**3730**		53.8	18.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Lead	**0.79**		0.54	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Magnesium	**20.6**	**J**	89.7	9.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Manganese	**10**		3.6	0.36	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Nickel	**0.46**	**J**	1.8	0.42	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Potassium	**36.7**	**J**	89.7	14.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Sodium	41.0	U	89.7	41.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Vanadium	**6.8**		1.8	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0074	U	0.016	0.0074	mg/Kg	☼	01/29/25 00:52	01/29/25 04:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	01/29/25 18:15	01/29/25 21:37	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.6**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-06-TS

Date Collected: 01/24/25 10:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-17

Matrix: Solid
Percent Solids: 94.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00032	U H	0.0014	0.00032	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,1,2,2-Tetrachloroethane	0.00029	U H	0.0014	0.00029	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00041	U H	0.0014	0.00041	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,1,2-Trichloroethane	0.00024	U H	0.0014	0.00024	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,1-Dichloroethane	0.00028	U H	0.0014	0.00028	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,1-Dichloroethene	0.00031	U H	0.0014	0.00031	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,2,3-Trichlorobenzene	0.00025	U H	0.0014	0.00025	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,2,4-Trichlorobenzene	0.00049	U H	0.0014	0.00049	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,2-Dibromo-3-Chloropropane	0.00063	U H *-	0.0014	0.00063	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,2-Dibromoethane	0.00024	U H	0.0014	0.00024	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,2-Dichlorobenzene	0.00049	U H	0.0014	0.00049	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,2-Dichloroethane	0.00040	U H	0.0014	0.00040	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,2-Dichloropropane	0.00058	U H	0.0014	0.00058	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-06-TS
Date Collected: 01/24/25 10:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-17
Matrix: Solid
Percent Solids: 94.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00050	U H	0.0014	0.00050	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
1,4-Dichlorobenzene	0.00031	U H	0.0014	0.00031	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
2-Butanone (MEK)	0.00050	U H	0.0068	0.00050	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
2-Hexanone	0.0023	U H	0.0068	0.0023	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
4-Methyl-2-pentanone (MIBK)	0.0021	U H	0.0068	0.0021	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Acetone	0.0078	U H	0.0082	0.0078	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Benzene	0.00035	U H	0.0014	0.00035	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Bromodichloromethane	0.00035	U H	0.0014	0.00035	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Bromoform	0.00058	U H	0.0014	0.00058	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Bromomethane	0.0014	U H *+	0.0027	0.0014	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Carbon disulfide	0.00036	U H	0.0014	0.00036	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Carbon tetrachloride	0.00053	U H	0.0014	0.00053	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Chlorobenzene	0.00024	U H	0.0014	0.00024	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Chlorobromomethane	0.00038	U H	0.0014	0.00038	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Chloroethane	0.00071	U H	0.0014	0.00071	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Chloroform	0.0013	U H	0.0014	0.0013	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Chloromethane	0.00059	U H	0.0014	0.00059	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
cis-1,2-Dichloroethene	0.00049	U H	0.0014	0.00049	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
cis-1,3-Dichloropropene	0.00037	U H	0.0014	0.00037	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Cyclohexane	0.00030	U H	0.0014	0.00030	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Dibromochloromethane	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Dichlorodifluoromethane	0.00046	U H	0.0014	0.00046	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Ethylbenzene	0.00027	U H	0.0014	0.00027	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Isopropylbenzene	0.00039	U H	0.0014	0.00039	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Methyl acetate	0.0059	U H	0.0068	0.0059	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Methyl tert-butyl ether	0.00070	U H	0.0014	0.00070	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Methylcyclohexane	0.00068	U H	0.0014	0.00068	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Methylene Chloride	0.0016	U H	0.0027	0.0016	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
m-Xylene & p-Xylene	0.00024	U H	0.0014	0.00024	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
o-Xylene	0.00026	U H	0.0014	0.00026	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Styrene	0.00038	U H	0.0014	0.00038	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Tetrachloroethene	0.00042	U H	0.0014	0.00042	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Toluene	0.00032	U H	0.0014	0.00032	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
trans-1,2-Dichloroethene	0.00033	U H	0.0014	0.00033	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
trans-1,3-Dichloropropene	0.00036	U H	0.0014	0.00036	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Trichloroethene	0.00044	U H	0.0014	0.00044	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Trichlorofluoromethane	0.00055	U H	0.0014	0.00055	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1
Vinyl chloride	0.00074	U H	0.0014	0.00074	mg/Kg	☼	01/25/25 11:18	03/06/25 13:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:18*	*03/06/25 13:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/25/25 11:18*	*03/06/25 13:27*	*1*
4-Bromofluorobenzene	*103*		*71 - 128*	*01/25/25 11:18*	*03/06/25 13:27*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 150*	*01/25/25 11:18*	*03/06/25 13:27*	*1*
Toluene-d8 (Surr)	*109*		*71 - 126*	*01/25/25 11:18*	*03/06/25 13:27*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-06-TS
Date Collected: 01/24/25 10:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-17
Matrix: Solid
Percent Solids: 94.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
1,2,4-Trichlorobenzene	0.0090	U H	0.035	0.0090	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
1,2-Dichlorobenzene	0.0060	U H	0.35	0.0060	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
1,2-Diphenylhydrazine	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
1,3-Dichlorobenzene	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
1,4-Dichlorobenzene	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2,4,5-Trichlorophenol	0.036	U H	0.35	0.036	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2,4,6-Trichlorophenol	0.045	U H	0.14	0.045	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2,4-Dimethylphenol	0.042	U H	0.35	0.042	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2,4-Dinitrophenol	0.17	U H	0.28	0.17	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2,4-Dinitrotoluene	0.038	U H	0.071	0.038	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2,6-Dinitrotoluene	0.025	U H	0.071	0.025	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2-Chloronaphthalene	0.016	U H	0.35	0.016	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2-Chlorophenol	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2-Methylnaphthalene	0.0098	U H	0.35	0.0098	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2-Methylphenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2-Nitroaniline	0.027	U H	0.35	0.027	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
2-Nitrophenol	0.035	U H	0.35	0.035	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
3,3'-Dichlorobenzidine	0.053	U H	0.14	0.053	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
3-Nitroaniline	0.083	U H	0.35	0.083	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.28	0.14	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
4-Bromophenyl phenyl ether	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
4-Chloro-3-methylphenol	0.020	U H	0.35	0.020	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
4-Chloroaniline	0.062	U H	0.35	0.062	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
4-Chlorophenyl phenyl ether	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
4-Methylphenol	0.022	U H	0.35	0.022	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
4-Nitroaniline	0.040	U H	0.35	0.040	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
4-Nitrophenol	0.057	U H	0.71	0.057	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Acenaphthene	0.0099	U H	0.35	0.0099	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Acenaphthylene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Acetophenone	0.017	U H	0.35	0.017	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Anthracene	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Atrazine	0.021	U H	0.14	0.021	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Benzaldehyde	0.058	U H	0.35	0.058	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Benzidine	0.073	U H *+	0.35	0.073	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Benzo[a]anthracene	0.026	U H	0.035	0.026	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Benzo[a]pyrene	0.0093	U H	0.035	0.0093	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Benzo[b]fluoranthene	0.0090	U H	0.035	0.0090	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Benzo[g,h,i]perylene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Benzo[k]fluoranthene	0.0068	U H	0.035	0.0068	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
bis (2-chloroisopropyl) ether	0.021	U H	0.35	0.021	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Bis(2-chloroethoxy)methane	0.027	U H	0.35	0.027	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Bis(2-chloroethyl)ether	0.012	U H	0.035	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.35	0.018	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Butyl benzyl phthalate	0.016	U H	0.35	0.016	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Caprolactam	0.054	U H	0.35	0.054	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Carbazole	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Chrysene	0.015	U H	0.35	0.015	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1

Client Sample ID: IB-06-TS

Date Collected: 01/24/25 10:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-17

Matrix: Solid
Percent Solids: 94.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.015	U H	0.035	0.015	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Dibenzofuran	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Diethyl phthalate	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Dimethyl phthalate	0.079	U H	0.35	0.079	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Di-n-butyl phthalate	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Di-n-octyl phthalate	0.018	U H	0.35	0.018	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Fluoranthene	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Fluorene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Hexachlorobenzene	0.017	U H	0.035	0.017	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Hexachlorobutadiene	0.0074	U H	0.071	0.0074	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Hexachlorocyclopentadiene	0.031	U H *+	0.35	0.031	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Hexachloroethane	0.012	U H	0.035	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Indeno[1,2,3-cd]pyrene	0.014	U H	0.035	0.014	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Isophorone	0.10	U H	0.14	0.10	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Naphthalene	**0.0089**	**J H**	0.35	0.0060	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Nitrobenzene	0.019	U H	0.035	0.019	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
N-Nitrosodimethylamine	0.032	U H	0.35	0.032	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
N-Nitrosodi-n-propylamine	0.025	U H	0.035	0.025	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
N-Nitrosodiphenylamine	0.029	U H	0.35	0.029	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Pentachlorophenol	0.072	U H	0.28	0.072	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Phenanthrene	**0.020**	**J H**	0.35	0.014	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Phenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1
Pyrene	0.0087	U H	0.35	0.0087	mg/Kg	☼	03/04/25 08:46	03/05/25 00:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzeneacetic acid	*1.2*	*H J N*	*mg/Kg*	☼	*4.38*	*103-82-2*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
4-((1E)-3-Hydroxy-1-propenyl)-2-methoxyphenol	*0.41*	*H J N*	*mg/Kg*	☼	*6.63*	*1000297-95-5*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
n-Hexadecanoic acid	*0.48*	*H J N*	*mg/Kg*	☼	*7.41*	*57-10-3*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Unknown	*0.56*	*H J*	*mg/Kg*	☼	*8.03*	*N/A*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Oxirane, hexadecyl-	*0.40*	*H J N*	*mg/Kg*	☼	*8.95*	*7390-81-0*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*1.1*	*H J N*	*mg/Kg*	☼	*9.07*	*1740-19-8*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
5-Eicosene, (E)-	*0.66*	*H J N*	*mg/Kg*	☼	*9.15*	*74685-30-6*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Octadecanoic acid	*0.48*	*H J N*	*mg/Kg*	☼	*9.38*	*57-11-4*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Unknown	*0.59*	*H J*	*mg/Kg*	☼	*9.47*	*N/A*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
1-Nonadecene	*1.3*	*H J N*	*mg/Kg*	☼	*9.80*	*18435-45-5*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Tetracosanoic acid	*0.63*	*H J N*	*mg/Kg*	☼	*10.04*	*557-59-5*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Oxirane, heptadecyl-	*0.40*	*H J N*	*mg/Kg*	☼	*10.26*	*67860-04-2*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Octadecanal	*0.55*	*H J N*	*mg/Kg*	☼	*10.95*	*638-66-4*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Unknown	*1.6*	*H J*	*mg/Kg*	☼	*11.17*	*N/A*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Unknown	*0.55*	*H J*	*mg/Kg*	☼	*11.26*	*N/A*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
17-Octadecenal	*0.78*	*H J N*	*mg/Kg*	☼	*11.69*	*56554-86-0*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Unknown	*4.7*	*H J*	*mg/Kg*	☼	*12.13*	*N/A*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Unknown	*2.1*	*H J*	*mg/Kg*	☼	*12.28*	*N/A*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Stigmast-4-en-3-one	*1.9*	*H J N*	*mg/Kg*	☼	*12.77*	*1058-61-3*	*03/04/25 08:46*	*03/05/25 00:13*	*1*
Friedelan-3-one	*0.55*	*H J N*	*mg/Kg*	☼	*13.33*	*559-74-0*	*03/04/25 08:46*	*03/05/25 00:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*24 - 137*	*03/04/25 08:46*	*03/05/25 00:13*	*1*

Client Sample ID: IB-06-TS

Date Collected: 01/24/25 10:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-17

Matrix: Solid
Percent Solids: 94.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		38 - 128	03/04/25 08:46	03/05/25 00:13	1
2-Fluorophenol (Surr)	59		31 - 133	03/04/25 08:46	03/05/25 00:13	1
Nitrobenzene-d5 (Surr)	61		31 - 120	03/04/25 08:46	03/05/25 00:13	1
Phenol-d5 (Surr)	57		35 - 132	03/04/25 08:46	03/05/25 00:13	1
Terphenyl-d14 (Surr)	64		44 - 147	03/04/25 08:46	03/05/25 00:13	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0071	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
4,4'-DDE	0.00084	U H	0.0071	0.00084	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
4,4'-DDT	0.0013	U H	0.0071	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Aldrin	0.0011	U H	0.0071	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
alpha-BHC	0.00072	U H	0.0021	0.00072	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
beta-BHC	0.00079	U H	0.0021	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
delta-BHC	0.00043	U H	0.0021	0.00043	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Dieldrin	0.00092	U H	0.0021	0.00092	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Endosulfan I	0.0011	U H	0.0071	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Endosulfan II	0.0018	U H	0.0071	0.0018	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Endosulfan sulfate	0.00089	U H	0.0071	0.00089	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Endrin	0.0010	U H	0.0071	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Endrin aldehyde	0.0017	U H	0.0071	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Endrin ketone	0.0014	U H	0.0071	0.0014	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
gamma-BHC (Lindane)	0.00066	U H	0.0021	0.00066	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Heptachlor	0.00084	U H	0.0071	0.00084	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Heptachlor epoxide	0.0011	U H	0.0071	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Methoxychlor	0.0016	U H	0.0071	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Toxaphene	0.026	U H	0.071	0.026	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1
Chlordane (n.o.s.)	0.017	U H	0.071	0.017	mg/Kg	☼	03/05/25 17:24	03/06/25 06:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		17 - 150	03/05/25 17:24	03/06/25 06:45	1
DCB Decachlorobiphenyl	44		17 - 150	03/05/25 17:24	03/06/25 06:45	1
Tetrachloro-m-xylene	60		21 - 150	03/05/25 17:24	03/06/25 06:45	1
Tetrachloro-m-xylene	65		21 - 150	03/05/25 17:24	03/06/25 06:45	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Aroclor 1221	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Aroclor 1232	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Aroclor 1242	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Aroclor 1248	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Aroclor 1254	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Aroclor 1260	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Aroclor-1262	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Aroclor 1268	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1
Polychlorinated biphenyls, Total	0.019	U	0.071	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		20 - 150	03/05/25 17:15	03/06/25 11:37	1

Client Sample ID: IB-06-TS
Date Collected: 01/24/25 10:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-17
Matrix: Solid
Percent Solids: 94.4

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:37*	*1*
Tetrachloro-m-xylene	*84*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:37*	*1*
Tetrachloro-m-xylene	*111*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:37*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 10:44	1
C9-C12 Aliphatics	3.2	U H	3.2	3.2	mg/Kg	☼	03/06/25 22:12	03/07/25 10:44	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 10:44	1
C21-C40 Aliphatics	7.4	U H	7.4	7.4	mg/Kg	☼	03/06/25 22:12	03/07/25 10:44	1
C16-C21 Aromatics	5.3	U H	5.3	5.3	mg/Kg	☼	03/06/25 22:12	03/07/25 10:28	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 10:28	1
C12-C16 Aromatics	3.2	U H	3.2	3.2	mg/Kg	☼	03/06/25 22:12	03/07/25 10:28	1
C21-C36 Aromatic	8.5	U H	8.5	8.5	mg/Kg	☼	03/06/25 22:12	03/07/25 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:28*	*1*
2-Fluorobiphenyl	*78*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:28*	*1*
2-Bromonaphthalene	*71*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:28*	*1*
1-Chlorooctadecane	*46*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:44*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**368**		20.0	5.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Antimony	0.15	U	1.0	0.15	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Arsenic	**0.27**	**J**	1.0	0.10	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Barium	**5.8**		2.0	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Beryllium	0.057	U	0.40	0.057	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Cadmium	0.11	U	1.0	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Calcium	**284**		99.9	40.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Chromium	**1.0**	**J**	2.0	0.91	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Cobalt	0.15	U	2.0	0.15	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Copper	**1.7**	**J**	2.0	0.37	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Iron	**417**		59.9	20.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Lead	**7.0**		0.60	0.20	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Magnesium	**61.2**	**J**	99.9	10.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Manganese	**14.5**		4.0	0.40	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Nickel	0.47	U	2.0	0.47	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Potassium	**46.1**	**J**	99.9	16.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Selenium	0.13	U	1.2	0.13	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Silver	0.089	U	0.40	0.089	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Sodium	45.6	U	99.9	45.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Thallium	0.041	U	0.40	0.041	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1
Vanadium	**2.0**		2.0	0.21	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1

Client Sample ID: IB-06-TS

Lab Sample ID: 460-319275-17
Date Collected: 01/24/25 10:20
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 94.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	3.0	U	8.0	3.0	mg/Kg	☼	03/07/25 12:53	03/08/25 12:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J H**	0.016	0.0077	mg/Kg	☼	03/07/25 01:02	03/07/25 05:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.24	0.13	mg/Kg	☼	03/07/25 18:23	03/09/25 16:08	1
Percent Moisture (EPA Moisture)	**5.6**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**94.4**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-06-CS-4

Lab Sample ID: 460-319275-18
Date Collected: 01/24/25 10:30
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 95.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,1,2-Trichloroethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,1-Dichloroethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,1-Dichloroethene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,2,3-Trichlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,2,4-Trichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,2-Dibromo-3-Chloropropane	0.00050	U H *-	0.0011	0.00050	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,2-Dibromoethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,2-Dichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,2-Dichloroethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,2-Dichloropropane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,3-Dichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
1,4-Dichlorobenzene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
2-Butanone (MEK)	0.00040	U H	0.0054	0.00040	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
2-Hexanone	0.0018	U H	0.0054	0.0018	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
4-Methyl-2-pentanone (MIBK)	0.0017	U H	0.0054	0.0017	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Acetone	0.0062	U H	0.0065	0.0062	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Benzene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Bromodichloromethane	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Bromoform	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Bromomethane	0.0011	U H *+	0.0022	0.0011	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Carbon disulfide	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Carbon tetrachloride	0.00042	U H	0.0011	0.00042	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Chlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Chlorobromomethane	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Chloroethane	0.00056	U H	0.0011	0.00056	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Chloroform	0.0010	U H	0.0011	0.0010	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Chloromethane	0.00047	U H	0.0011	0.00047	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
cis-1,2-Dichloroethene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
cis-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1

Client Sample ID: IB-06-CS-4
Date Collected: 01/24/25 10:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-18
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Dibromochloromethane	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Dichlorodifluoromethane	0.00037	U H	0.0011	0.00037	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Ethylbenzene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Isopropylbenzene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Methyl acetate	0.0046	U H	0.0054	0.0046	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Methyl tert-butyl ether	0.00055	U H	0.0011	0.00055	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Methylcyclohexane	0.00054	U H	0.0011	0.00054	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Methylene Chloride	0.0012	U H	0.0022	0.0012	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
m-Xylene & p-Xylene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
o-Xylene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Styrene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Tetrachloroethene	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Toluene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
trans-1,2-Dichloroethene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
trans-1,3-Dichloropropene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Trichloroethene	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Trichlorofluoromethane	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1
Vinyl chloride	0.00059	U H	0.0011	0.00059	mg/Kg	☼	01/25/25 11:19	03/06/25 13:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:19*	*03/06/25 13:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*	*01/25/25 11:19*	*03/06/25 13:50*	*1*
4-Bromofluorobenzene	*97*		*71 - 128*	*01/25/25 11:19*	*03/06/25 13:50*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*01/25/25 11:19*	*03/06/25 13:50*	*1*
Toluene-d8 (Surr)	*101*		*71 - 126*	*01/25/25 11:19*	*03/06/25 13:50*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
1,2,4-Trichlorobenzene	0.0089	U H	0.034	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
1,2-Dichlorobenzene	0.0059	U H	0.34	0.0059	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
1,2-Diphenylhydrazine	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2,4,5-Trichlorophenol	0.035	U H	0.34	0.035	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2,4,6-Trichlorophenol	0.044	U H	0.14	0.044	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2,4-Dimethylphenol	0.041	U H	0.34	0.041	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2,4-Dinitrophenol	0.17	U H	0.28	0.17	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2,4-Dinitrotoluene	0.037	U H	0.070	0.037	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2,6-Dinitrotoluene	0.025	U H	0.070	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2-Methylnaphthalene	0.0096	U H	0.34	0.0096	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
2-Nitrophenol	0.035	U H	0.34	0.035	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-06-CS-4
Date Collected: 01/24/25 10:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-18
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.052	U H	0.14	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
3-Nitroaniline	0.082	U H	0.34	0.082	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.28	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
4-Bromophenyl phenyl ether	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
4-Chloroaniline	0.061	U H	0.34	0.061	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
4-Methylphenol	0.022	U H	0.34	0.022	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
4-Nitroaniline	0.040	U H	0.34	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
4-Nitrophenol	0.056	U H	0.70	0.056	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Acenaphthene	0.0098	U H	0.34	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Acenaphthylene	0.0099	U H	0.34	0.0099	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Anthracene	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Atrazine	0.020	U H	0.14	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Benzaldehyde	0.057	U H	0.34	0.057	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Benzidine	0.072	U H *+	0.34	0.072	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Benzo[a]anthracene	0.026	U H	0.034	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Benzo[a]pyrene	0.0092	U H	0.034	0.0092	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Benzo[b]fluoranthene	0.0089	U H	0.034	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Benzo[g,h,i]perylene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Benzo[k]fluoranthene	0.0068	U H	0.034	0.0068	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
bis (2-chloroisopropyl) ether	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Bis(2-chloroethoxy)methane	0.027	U H	0.34	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Caprolactam	0.054	U H	0.34	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Dibenzofuran	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Dimethyl phthalate	0.078	U H	0.34	0.078	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Fluorene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Hexachlorobutadiene	0.0073	U H	0.070	0.0073	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Isophorone	0.10	U H	0.14	0.10	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Naphthalene	0.0060	U H	0.34	0.0060	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
N-Nitrosodimethylamine	0.032	U H	0.34	0.032	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
N-Nitrosodi-n-propylamine	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-06-CS-4
Date Collected: 01/24/25 10:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-18
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.071	U H	0.28	0.071	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Phenanthrene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Phenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1
Pyrene	0.0086	U H	0.34	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 16:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 16:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*24 - 137*	*03/04/25 08:46*	*03/04/25 16:45*	*1*
2-Fluorobiphenyl	*51*		*38 - 128*	*03/04/25 08:46*	*03/04/25 16:45*	*1*
2-Fluorophenol (Surr)	*54*		*31 - 133*	*03/04/25 08:46*	*03/04/25 16:45*	*1*
Nitrobenzene-d5 (Surr)	*49*		*31 - 120*	*03/04/25 08:46*	*03/04/25 16:45*	*1*
Phenol-d5 (Surr)	*53*		*35 - 132*	*03/04/25 08:46*	*03/04/25 16:45*	*1*
Terphenyl-d14 (Surr)	*46*		*44 - 147*	*03/04/25 08:46*	*03/04/25 16:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0070	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
4,4'-DDE	0.00082	U H	0.0070	0.00082	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
4,4'-DDT	0.0013	U H	0.0070	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Aldrin	0.0011	U H	0.0070	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
alpha-BHC	0.00071	U H	0.0021	0.00071	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
beta-BHC	0.00078	U H	0.0021	0.00078	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
delta-BHC	0.00043	U H	0.0021	0.00043	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Dieldrin	0.00091	U H	0.0021	0.00091	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Endosulfan I	0.0011	U H	0.0070	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Endosulfan II	0.0018	U H	0.0070	0.0018	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Endosulfan sulfate	0.00088	U H	0.0070	0.00088	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Endrin	0.0010	U H	0.0070	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Endrin aldehyde	0.0016	U H	0.0070	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Endrin ketone	0.0014	U H	0.0070	0.0014	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
gamma-BHC (Lindane)	0.00065	U H	0.0021	0.00065	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Heptachlor	0.00082	U H	0.0070	0.00082	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Heptachlor epoxide	0.0010	U H	0.0070	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Methoxychlor	0.0016	U H	0.0070	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Toxaphene	0.025	U H	0.070	0.025	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1
Chlordane (n.o.s.)	0.017	U H	0.070	0.017	mg/Kg	☼	03/05/25 17:24	03/06/25 06:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*17 - 150*	*03/05/25 17:24*	*03/06/25 06:57*	*1*
DCB Decachlorobiphenyl	*50*		*17 - 150*	*03/05/25 17:24*	*03/06/25 06:57*	*1*
Tetrachloro-m-xylene	*57*		*21 - 150*	*03/05/25 17:24*	*03/06/25 06:57*	*1*
Tetrachloro-m-xylene	*69*		*21 - 150*	*03/05/25 17:24*	*03/06/25 06:57*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1

Client Sample ID: IB-06-CS-4
Date Collected: 01/24/25 10:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-18
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1
Polychlorinated biphenyls, Total	0.019	U	0.070	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:53*	*1*
DCB Decachlorobiphenyl	*68*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:53*	*1*
Tetrachloro-m-xylene	*94*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:53*	*1*
Tetrachloro-m-xylene	*124*		*20 - 150*	*03/05/25 17:15*	*03/06/25 11:53*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:00	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:00	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:00	1
C21-C40 Aliphatics	7.3	U H	7.3	7.3	mg/Kg	☼	03/06/25 22:12	03/07/25 11:00	1
C16-C21 Aromatics	5.2	U H	5.2	5.2	mg/Kg	☼	03/06/25 22:12	03/07/25 10:44	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 10:44	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 22:12	03/07/25 10:44	1
C21-C36 Aromatic	8.3	U H	8.3	8.3	mg/Kg	☼	03/06/25 22:12	03/07/25 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:44*	*1*
2-Fluorobiphenyl	*80*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:44*	*1*
2-Bromonaphthalene	*77*		*40 - 140*	*03/06/25 22:12*	*03/07/25 10:44*	*1*
1-Chlorooctadecane	*45*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:00*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1020**		15.4	4.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Antimony	0.11	U	0.77	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Arsenic	**0.28**	**J**	0.77	0.079	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Barium	**1.5**		1.5	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Beryllium	0.044	U	0.31	0.044	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Cadmium	0.087	U	0.77	0.087	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Calcium	31.3	U	76.8	31.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Chromium	**2.6**		1.5	0.70	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Cobalt	0.11	U	1.5	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Copper	**0.54**	**J**	1.5	0.28	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Iron	**942**		46.1	15.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Lead	**1.3**		0.46	0.15	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Magnesium	**22.2**	**J**	76.8	7.8	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1

Client Sample ID: IB-06-CS-4

Lab Sample ID: 460-319275-18

Date Collected: 01/24/25 10:30
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 95.8

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.6**	**J**	3.1	0.31	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Nickel	0.36	U	1.5	0.36	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Potassium	**29.0**	**J**	76.8	12.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Selenium	0.098	U	0.96	0.098	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Silver	0.068	U	0.31	0.068	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Sodium	35.1	U	76.8	35.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Thallium	0.031	U	0.31	0.031	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Vanadium	**2.3**		1.5	0.16	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1
Zinc	2.3	U	6.1	2.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0083**	**J H**	0.016	0.0074	mg/Kg	☼	03/07/25 01:02	03/07/25 05:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.23	0.13	mg/Kg	☼	03/07/25 18:23	03/09/25 16:08	1
Percent Moisture (EPA Moisture)	**4.2**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**95.8**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-06-CS-8

Lab Sample ID: 460-319275-19

Date Collected: 01/24/25 10:40
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,1,2,2-Tetrachloroethane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,1,2-Trichloroethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,1-Dichloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,1-Dichloroethene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,2,3-Trichlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,2,4-Trichlorobenzene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,2-Dibromo-3-Chloropropane	0.00052	U H *-	0.0011	0.00052	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,2-Dibromoethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,2-Dichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,2-Dichloroethane	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,2-Dichloropropane	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,3-Dichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
1,4-Dichlorobenzene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
2-Butanone (MEK)	0.00042	U H	0.0056	0.00042	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
2-Hexanone	0.0019	U H	0.0056	0.0019	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
4-Methyl-2-pentanone (MIBK)	0.0018	U H	0.0056	0.0018	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Acetone	**0.035**	**H**	0.0068	0.0065	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Benzene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Bromodichloromethane	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Bromoform	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Bromomethane	0.0011	U H *+	0.0023	0.0011	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Carbon disulfide	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1

Client Sample ID: IB-06-CS-8
Date Collected: 01/24/25 10:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-19
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Chlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Chlorobromomethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Chloroethane	0.00059	U H	0.0011	0.00059	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Chloroform	0.0011	U H	0.0011	0.0011	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Chloromethane	0.00049	U H	0.0011	0.00049	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
cis-1,2-Dichloroethene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
cis-1,3-Dichloropropene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Cyclohexane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Dibromochloromethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Dichlorodifluoromethane	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Ethylbenzene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Isopropylbenzene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Methyl acetate	0.0049	U H	0.0056	0.0049	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Methyl tert-butyl ether	0.00058	U H	0.0011	0.00058	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Methylcyclohexane	0.00056	U H	0.0011	0.00056	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Methylene Chloride	0.0013	U H	0.0023	0.0013	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
m-Xylene & p-Xylene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
o-Xylene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Styrene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Tetrachloroethene	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Toluene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
trans-1,2-Dichloroethene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
trans-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Trichloroethene	0.00036	U H	0.0011	0.00036	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Trichlorofluoromethane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1
Vinyl chloride	0.00062	U H	0.0011	0.00062	mg/Kg	☼	01/25/25 11:19	03/06/25 14:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:19*	*03/06/25 14:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*	*01/25/25 11:19*	*03/06/25 14:13*	*1*
4-Bromofluorobenzene	*98*		*71 - 128*	*01/25/25 11:19*	*03/06/25 14:13*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*	*01/25/25 11:19*	*03/06/25 14:13*	*1*
Toluene-d8 (Surr)	*105*		*71 - 126*	*01/25/25 11:19*	*03/06/25 14:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
1,2,4-Trichlorobenzene	0.0085	U H	0.033	0.0085	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-06-CS-8
Date Collected: 01/24/25 10:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-19
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Benzidine	0.070	U H *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Benzo[a]pyrene	0.0088	U H	0.033	0.0088	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Dimethyl phthalate	0.075	U H	0.33	0.075	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Di-n-butyl phthalate	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1

Client Sample ID: IB-06-CS-8

Date Collected: 01/24/25 10:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-19

Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Naphthalene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1
Pyrene	0.0082	U H	0.33	0.0082	mg/Kg	☼	03/04/25 08:46	03/04/25 16:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 16:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*24 - 137*	*03/04/25 08:46*	*03/04/25 16:22*	*1*
2-Fluorobiphenyl	*77*		*38 - 128*	*03/04/25 08:46*	*03/04/25 16:22*	*1*
2-Fluorophenol (Surr)	*81*		*31 - 133*	*03/04/25 08:46*	*03/04/25 16:22*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*	*03/04/25 08:46*	*03/04/25 16:22*	*1*
Phenol-d5 (Surr)	*82*		*35 - 132*	*03/04/25 08:46*	*03/04/25 16:22*	*1*
Terphenyl-d14 (Surr)	*74*		*44 - 147*	*03/04/25 08:46*	*03/04/25 16:22*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*		*17 - 150*	*03/05/25 17:24*	*03/06/25 08:11*	*1*
DCB Decachlorobiphenyl	*39*		*17 - 150*	*03/05/25 17:24*	*03/06/25 08:11*	*1*

Client Sample ID: IB-06-CS-8
Date Collected: 01/24/25 10:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-19
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*216*	*S1+*	*21 - 150*	*03/05/25 17:24*	*03/06/25 08:11*	*1*
Tetrachloro-m-xylene	*92*		*21 - 150*	*03/05/25 17:24*	*03/06/25 08:11*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:10*	*1*
DCB Decachlorobiphenyl	*46*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:10*	*1*
Tetrachloro-m-xylene	*64*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:10*	*1*
Tetrachloro-m-xylene	*84*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:10*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:15	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:15	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:15	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:15	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:00	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:00	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:00	1
C21-C36 Aromatic	8.0	U H	8.0	8.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:00*	*1*
2-Fluorobiphenyl	*85*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:00*	*1*
2-Bromonaphthalene	*74*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:00*	*1*
1-Chlorooctadecane	*49*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:15*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**651**		17.5	4.8	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Antimony	0.13	U	0.87	0.13	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Arsenic	**0.16**	**J**	0.87	0.090	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1

Client Sample ID: IB-06-CS-8

Date Collected: 01/24/25 10:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-19

Matrix: Solid
Percent Solids: 99.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.97**	**J**	1.7	0.13	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Beryllium	0.050	U	0.35	0.050	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Cadmium	0.099	U	0.87	0.099	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Calcium	35.6	U	87.4	35.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Chromium	**1.8**		1.7	0.79	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Cobalt	0.13	U	1.7	0.13	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Copper	**0.42**	**J**	1.7	0.32	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Iron	**418**		52.5	17.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Lead	**0.62**		0.52	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Magnesium	**9.3**	**J**	87.4	8.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Manganese	**1.1**	**J**	3.5	0.35	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Nickel	0.41	U	1.7	0.41	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Potassium	**22.4**	**J**	87.4	14.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Silver	0.078	U	0.35	0.078	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Sodium	40.0	U	87.4	40.0	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Thallium	0.036	U	0.35	0.036	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Vanadium	**1.6**	**J**	1.7	0.18	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1
Zinc	2.7	U	7.0	2.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0074	U H	0.016	0.0074	mg/Kg	☼	03/07/25 01:02	03/07/25 05:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U H	0.22	0.12	mg/Kg	☼	03/07/25 18:23	03/09/25 16:13	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.5**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: Dup-05

Date Collected: 01/24/25 12:05
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-20

Matrix: Solid
Percent Solids: 98.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,1,2,2-Tetrachloroethane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,1,2-Trichloroethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,1-Dichloroethane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,1-Dichloroethene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,2,3-Trichlorobenzene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,2,4-Trichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,2-Dibromo-3-Chloropropane	0.00053	U H *-	0.0011	0.00053	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,2-Dibromoethane	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,2-Dichlorobenzene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,2-Dichloroethane	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,2-Dichloropropane	0.00049	U H	0.0011	0.00049	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
1,3-Dichlorobenzene	0.00042	U H	0.0011	0.00042	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1

Client Sample ID: Dup-05
Date Collected: 01/24/25 12:05
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-20
Matrix: Solid
Percent Solids: 98.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
2-Butanone (MEK)	0.00042	U H	0.0057	0.00042	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
2-Hexanone	0.0020	U H	0.0057	0.0020	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
4-Methyl-2-pentanone (MIBK)	0.0018	U H	0.0057	0.0018	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Acetone	**0.030**	**H**	0.0069	0.0066	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Benzene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Bromodichloromethane	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Bromoform	0.00049	U H	0.0011	0.00049	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Bromomethane	0.0011	U H *+	0.0023	0.0011	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Carbon disulfide	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Carbon tetrachloride	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Chlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Chlorobromomethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Chloroethane	0.00060	U H	0.0011	0.00060	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Chloroform	0.0011	U H	0.0011	0.0011	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Chloromethane	0.00050	U H	0.0011	0.00050	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
cis-1,2-Dichloroethene	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
cis-1,3-Dichloropropene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Cyclohexane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Dibromochloromethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Dichlorodifluoromethane	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Ethylbenzene	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Isopropylbenzene	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Methyl acetate	0.0049	U H	0.0057	0.0049	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Methyl tert-butyl ether	0.00059	U H	0.0011	0.00059	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Methylcyclohexane	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Methylene Chloride	0.0013	U H	0.0023	0.0013	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
m-Xylene & p-Xylene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
o-Xylene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Styrene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Tetrachloroethene	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Toluene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
trans-1,2-Dichloroethene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
trans-1,3-Dichloropropene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Trichloroethene	0.00037	U H	0.0011	0.00037	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Trichlorofluoromethane	0.00047	U H	0.0011	0.00047	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1
Vinyl chloride	0.00063	U H	0.0011	0.00063	mg/Kg	☼	01/25/25 11:20	03/06/25 14:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:20*	*03/06/25 14:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/25/25 11:20*	*03/06/25 14:36*	*1*
4-Bromofluorobenzene	*99*		*71 - 128*	*01/25/25 11:20*	*03/06/25 14:36*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 150*	*01/25/25 11:20*	*03/06/25 14:36*	*1*
Toluene-d8 (Surr)	*101*		*71 - 126*	*01/25/25 11:20*	*03/06/25 14:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: Dup-05
Date Collected: 01/24/25 12:05
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-20
Matrix: Solid
Percent Solids: 98.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2,4-Dichlorophenol	0.022	U H	0.13	0.022	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2,4-Dinitrotoluene	0.036	U H	0.068	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2,6-Dinitrotoluene	0.024	U H	0.068	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2-Chloronaphthalene	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2-Methylnaphthalene	0.0094	U H	0.33	0.0094	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2-Methylphenol	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2-Nitroaniline	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
2-Nitrophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
3,3'-Dichlorobenzidine	0.051	U H	0.13	0.051	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
3-Nitroaniline	0.080	U H	0.33	0.080	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
4-Chloroaniline	0.060	U H	0.33	0.060	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
4-Nitroaniline	0.039	U H	0.33	0.039	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
4-Nitrophenol	0.055	U H	0.68	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Acenaphthene	0.0096	U H	0.33	0.0096	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Acenaphthylene	0.0096	U H	0.33	0.0096	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Benzidine	0.070	U H *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Benzo[b]fluoranthene	0.0087	U H	0.033	0.0087	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Benzo[g,h,i]perylene	0.0099	U H	0.33	0.0099	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Benzo[k]fluoranthene	0.0066	U H	0.033	0.0066	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Dibenz(a,h)anthracene	0.015	U H	0.033	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1

Client Sample ID: Dup-05
Date Collected: 01/24/25 12:05
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-20
Matrix: Solid
Percent Solids: 98.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Fluorene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Hexachlorobutadiene	0.0071	U H	0.068	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Hexachloroethane	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Isophorone	0.097	U H	0.13	0.097	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Nitrobenzene	0.019	U H	0.033	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
N-Nitrosodiphenylamine	0.028	U H	0.33	0.028	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Pentachlorophenol	0.069	U H	0.27	0.069	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:46	03/04/25 17:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 17:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 137*	*03/04/25 08:46*	*03/04/25 17:07*	*1*
2-Fluorobiphenyl	*78*		*38 - 128*	*03/04/25 08:46*	*03/04/25 17:07*	*1*
2-Fluorophenol (Surr)	*80*		*31 - 133*	*03/04/25 08:46*	*03/04/25 17:07*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*	*03/04/25 08:46*	*03/04/25 17:07*	*1*
Phenol-d5 (Surr)	*81*		*35 - 132*	*03/04/25 08:46*	*03/04/25 17:07*	*1*
Terphenyl-d14 (Surr)	*74*		*44 - 147*	*03/04/25 08:46*	*03/04/25 17:07*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
4,4'-DDE	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
4,4'-DDT	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Dieldrin	0.00088	U H	0.0020	0.00088	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Endosulfan II	0.0017	U H	0.0068	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Endosulfan sulfate	0.00085	U H	0.0068	0.00085	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Endrin	0.00097	U H	0.0068	0.00097	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1

Client Sample ID: Dup-05
Date Collected: 01/24/25 12:05
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-20
Matrix: Solid
Percent Solids: 98.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.00063	U H	0.0020	0.00063	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Heptachlor	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Methoxychlor	0.0015	U H	0.0068	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Toxaphene	0.024	U H	0.068	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1
Chlordane (n.o.s.)	0.016	U H	0.068	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*17 - 150*	*03/05/25 17:24*	*03/06/25 08:23*	*1*
DCB Decachlorobiphenyl	*61*		*17 - 150*	*03/05/25 17:24*	*03/06/25 08:23*	*1*
Tetrachloro-m-xylene	*202*	*S1+*	*21 - 150*	*03/05/25 17:24*	*03/06/25 08:23*	*1*
Tetrachloro-m-xylene	*117*		*21 - 150*	*03/05/25 17:24*	*03/06/25 08:23*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:26*	*1*
DCB Decachlorobiphenyl	*61*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:26*	*1*
Tetrachloro-m-xylene	*86*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:26*	*1*
Tetrachloro-m-xylene	*113*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:26*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:31	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:31	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:31	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:31	1
C16-C21 Aromatics	5.1	U H	5.1	5.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:15	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:15	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:15	1
C21-C36 Aromatic	8.1	U H	8.1	8.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:15*	*1*

Client Sample ID: Dup-05

Lab Sample ID: 460-319275-20
Date Collected: 01/24/25 12:05
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 98.5

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:15*	*1*
2-Bromonaphthalene	*75*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:15*	*1*
1-Chlorooctadecane	*46*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:31*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**831**		19.0	5.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Antimony	0.14	U	0.95	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Arsenic	**0.21**	**J**	0.95	0.098	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Barium	**0.95**	**J**	1.9	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Cadmium	0.11	U	0.95	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Calcium	38.6	U	94.9	38.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Chromium	**2.7**		1.9	0.86	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Copper	**0.60**	**J**	1.9	0.35	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Iron	**585**		56.9	19.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Lead	**0.90**		0.57	0.19	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Magnesium	**15.0**	**J**	94.9	9.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Manganese	**0.76**	**J**	3.8	0.38	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Nickel	0.45	U	1.9	0.45	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Potassium	**27.1**	**J**	94.9	15.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Silver	0.084	U	0.38	0.084	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Sodium	43.4	U	94.9	43.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Vanadium	**2.2**		1.9	0.20	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1
Zinc	2.9	U	7.6	2.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0073	U H	0.015	0.0073	mg/Kg	☼	03/07/25 01:02	03/07/25 05:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.23	0.13	mg/Kg	☼	03/07/25 18:23	03/09/25 16:14	1
Percent Moisture (EPA Moisture)	**1.5**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**98.5**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-02-TS

Lab Sample ID: 460-319275-21
Date Collected: 01/24/25 10:50
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 98.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-02-TS
Date Collected: 01/24/25 10:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-21
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,2-Dibromo-3-Chloropropane	0.00050	U *+	0.0011	0.00050	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,2-Dibromoethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,2-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,2-Dichloropropane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,3-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
2-Butanone (MEK)	0.00040	U	0.0055	0.00040	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
2-Hexanone	0.0019	U *-	0.0055	0.0019	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
4-Methyl-2-pentanone (MIBK)	0.0017	U *-	0.0055	0.0017	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Acetone	**0.028**		0.0066	0.0063	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Bromodichloromethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Bromoform	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Bromomethane	0.0011	U *+	0.0022	0.0011	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Carbon disulfide	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Carbon tetrachloride	0.00042	U	0.0011	0.00042	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Chlorobromomethane	0.00031	U *+	0.0011	0.00031	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Chloroethane	0.00057	U	0.0011	0.00057	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Chloromethane	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Isopropylbenzene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Methyl acetate	0.0047	U *+	0.0055	0.0047	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Methyl tert-butyl ether	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Methylcyclohexane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
m-Xylene & p-Xylene	**0.00057**	**J**	0.0011	0.00019	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
o-Xylene	**0.00053**	**J**	0.0011	0.00021	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Tetrachloroethene	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Trichlorofluoromethane	0.00044	U	0.0011	0.00044	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1
Vinyl chloride	0.00060	U	0.0011	0.00060	mg/Kg	☼	01/25/25 11:21	01/30/25 00:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.6*	*J*	*ug/Kg*	☼	*10.39*	*N/A*	*01/25/25 11:21*	*01/30/25 00:10*	*1*

Client Sample ID: IB-02-TS
Date Collected: 01/24/25 10:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-21
Matrix: Solid
Percent Solids: 98.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/25/25 11:21*	*01/30/25 00:10*	*1*
4-Bromofluorobenzene	*86*		*71 - 128*	*01/25/25 11:21*	*01/30/25 00:10*	*1*
Dibromofluoromethane (Surr)	*118*		*50 - 150*	*01/25/25 11:21*	*01/30/25 00:10*	*1*
Toluene-d8 (Surr)	*88*		*71 - 126*	*01/25/25 11:21*	*01/30/25 00:10*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2,4-Dichlorophenol	0.022	U	0.13	0.022	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2-Chloronaphthalene	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
3-Nitroaniline	0.080	U	0.33	0.080	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
4-Nitroaniline	0.039	U	0.33	0.039	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Acenaphthene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Benzo[b]fluoranthene	0.0087	U	0.033	0.0087	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1

Client Sample ID: IB-02-TS
Date Collected: 01/24/25 10:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-21
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Dibenz(a,h)anthracene	0.015	U	0.033	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Hexachloroethane	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/29/25 02:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.32*	*A J*	*mg/Kg*	☼	*2.81*	*N/A*	*01/28/25 10:34*	*01/29/25 02:17*	*1*
Chloroacetic acid, tetradecyl ester	*0.39*	*J N*	*mg/Kg*	☼	*12.08*	*18277-86-6*	*01/28/25 10:34*	*01/29/25 02:17*	*1*
Hop-22(29)-en-3.beta.-ol	*1.3*	*J N*	*mg/Kg*	☼	*16.46*	*58801-23-3*	*01/28/25 10:34*	*01/29/25 02:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*24 - 137*	*01/28/25 10:34*	*01/29/25 02:17*	*1*
2-Fluorobiphenyl	*70*		*38 - 128*	*01/28/25 10:34*	*01/29/25 02:17*	*1*
2-Fluorophenol (Surr)	*58*		*31 - 133*	*01/28/25 10:34*	*01/29/25 02:17*	*1*
Nitrobenzene-d5 (Surr)	*65*		*31 - 120*	*01/28/25 10:34*	*01/29/25 02:17*	*1*
Phenol-d5 (Surr)	*65*		*35 - 132*	*01/28/25 10:34*	*01/29/25 02:17*	*1*
Terphenyl-d14 (Surr)	*73*		*44 - 147*	*01/28/25 10:34*	*01/29/25 02:17*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-02-TS
Date Collected: 01/24/25 10:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-21
Matrix: Solid
Percent Solids: 98.6

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:55*	*1*
DCB Decachlorobiphenyl	*114*		*17 - 150*	*01/28/25 06:14*	*01/28/25 17:55*	*1*
Tetrachloro-m-xylene	*92*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:55*	*1*
Tetrachloro-m-xylene	*86*		*21 - 150*	*01/28/25 06:14*	*01/28/25 17:55*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:11*	*1*
DCB Decachlorobiphenyl	*140*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:11*	*1*
Tetrachloro-m-xylene	*83*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:11*	*1*
Tetrachloro-m-xylene	*82*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:11*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:09	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:09	1

Client Sample ID: IB-02-TS
Date Collected: 01/24/25 10:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-21
Matrix: Solid
Percent Solids: 98.6

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:09	1
C21-C40 Aliphatics	7.1	U *1	7.1	7.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:09	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:09	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:09	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:09	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:09*	*1*
2-Fluorobiphenyl	*92*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:09*	*1*
2-Bromonaphthalene	*86*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:09*	*1*
1-Chlorooctadecane	*68*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:09*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**393**		18.8	5.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Arsenic	**0.35**	**J**	0.94	0.097	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Barium	**2.0**		1.9	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Calcium	**74.8**	**J**	93.9	38.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Chromium	**1.2**	**J**	1.9	0.85	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Copper	**0.90**	**J**	1.9	0.35	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Iron	**449**		56.3	19.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Lead	**6.2**		0.56	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Magnesium	**21.1**	**J**	93.9	9.6	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Manganese	**3.2**	**J**	3.8	0.38	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Nickel	0.44	U	1.9	0.44	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Potassium	**20.0**	**J**	93.9	15.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Silver	0.084	U	0.38	0.084	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Sodium	42.9	U	93.9	42.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Vanadium	**2.3**		1.9	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1
Zinc	2.9	U	7.5	2.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	U	0.016	0.0077	mg/Kg	☼	01/29/25 00:52	01/29/25 04:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.20	0.11	mg/Kg	☼	01/29/25 18:15	01/29/25 21:38	1
Percent Moisture (EPA Moisture)	**1.4**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**98.6**		1.0	1.0	%			01/27/25 07:37	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-02-CS
Date Collected: 01/24/25 11:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-22
Matrix: Solid
Percent Solids: 98.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00022	U	0.00096	0.00022	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00096	0.00021	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U	0.00096	0.00029	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,1,2-Trichloroethane	0.00017	U	0.00096	0.00017	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,1-Dichloroethane	0.00020	U	0.00096	0.00020	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,1-Dichloroethene	0.00022	U	0.00096	0.00022	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,2,3-Trichlorobenzene	0.00017	U	0.00096	0.00017	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,2,4-Trichlorobenzene	0.00034	U	0.00096	0.00034	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,2-Dibromo-3-Chloropropane	0.00044	U *+	0.00096	0.00044	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,2-Dibromoethane	0.00017	U	0.00096	0.00017	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,2-Dichlorobenzene	0.00035	U	0.00096	0.00035	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,2-Dichloroethane	0.00028	U	0.00096	0.00028	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,2-Dichloropropane	0.00041	U	0.00096	0.00041	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,3-Dichlorobenzene	0.00035	U	0.00096	0.00035	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
1,4-Dichlorobenzene	0.00022	U	0.00096	0.00022	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
2-Butanone (MEK)	0.00035	U	0.0048	0.00035	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
2-Hexanone	0.0016	U *-	0.0048	0.0016	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
4-Methyl-2-pentanone (MIBK)	0.0015	U *-	0.0048	0.0015	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Acetone	**0.018**		0.0058	0.0055	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Benzene	0.00025	U	0.00096	0.00025	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Bromodichloromethane	0.00025	U	0.00096	0.00025	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Bromoform	0.00041	U	0.00096	0.00041	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Bromomethane	0.00096	U *+	0.0019	0.00096	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Carbon disulfide	0.00026	U	0.00096	0.00026	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Carbon tetrachloride	0.00037	U	0.00096	0.00037	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Chlorobenzene	0.00017	U	0.00096	0.00017	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Chlorobromomethane	0.00027	U *+	0.00096	0.00027	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Chloroethane	0.00050	U	0.00096	0.00050	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Chloroform	0.00093	U	0.00096	0.00093	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Chloromethane	0.00042	U	0.00096	0.00042	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
cis-1,2-Dichloroethene	0.00034	U	0.00096	0.00034	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
cis-1,3-Dichloropropene	0.00026	U	0.00096	0.00026	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Cyclohexane	0.00021	U	0.00096	0.00021	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Dibromochloromethane	0.00019	U	0.00096	0.00019	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Dichlorodifluoromethane	0.00032	U	0.00096	0.00032	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Ethylbenzene	0.00019	U	0.00096	0.00019	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Isopropylbenzene	0.00027	U	0.00096	0.00027	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Methyl acetate	0.0041	U *+	0.0048	0.0041	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Methyl tert-butyl ether	0.00049	U	0.00096	0.00049	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Methylcyclohexane	0.00048	U	0.00096	0.00048	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Methylene Chloride	0.0011	U	0.0019	0.0011	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
m-Xylene & p-Xylene	**0.00017**	**J**	0.00096	0.00017	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
o-Xylene	0.00019	U	0.00096	0.00019	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Styrene	0.00027	U	0.00096	0.00027	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Tetrachloroethene	0.00029	U	0.00096	0.00029	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Toluene	0.00022	U	0.00096	0.00022	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
trans-1,2-Dichloroethene	0.00024	U	0.00096	0.00024	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
trans-1,3-Dichloropropene	0.00026	U	0.00096	0.00026	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Trichloroethene	0.00031	U	0.00096	0.00031	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1

Client Sample ID: IB-02-CS
Date Collected: 01/24/25 11:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-22
Matrix: Solid
Percent Solids: 98.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00039	U	0.00096	0.00039	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1
Vinyl chloride	0.00052	U	0.00096	0.00052	mg/Kg	☼	01/25/25 11:22	01/30/25 00:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:22*	*01/30/25 00:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/25/25 11:22*	*01/30/25 00:33*	*1*
4-Bromofluorobenzene	*86*		*71 - 128*	*01/25/25 11:22*	*01/30/25 00:33*	*1*
Dibromofluoromethane (Surr)	*117*		*50 - 150*	*01/25/25 11:22*	*01/30/25 00:33*	*1*
Toluene-d8 (Surr)	*88*		*71 - 126*	*01/25/25 11:22*	*01/30/25 00:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1

Client Sample ID: IB-02-CS
Date Collected: 01/24/25 11:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-22
Matrix: Solid
Percent Solids: 98.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Benzo[b]fluoranthene	0.0087	U	0.033	0.0087	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Di-n-butyl phthalate	**0.019**	**J**	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/29/25 00:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.38*	*A J*	*mg/Kg*	☼	*2.81*	*N/A*	*01/28/25 10:34*	*01/29/25 00:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*24 - 137*	*01/28/25 10:34*	*01/29/25 00:26*	*1*
2-Fluorobiphenyl	*79*		*38 - 128*	*01/28/25 10:34*	*01/29/25 00:26*	*1*
2-Fluorophenol (Surr)	*68*		*31 - 133*	*01/28/25 10:34*	*01/29/25 00:26*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*	*01/28/25 10:34*	*01/29/25 00:26*	*1*
Phenol-d5 (Surr)	*76*		*35 - 132*	*01/28/25 10:34*	*01/29/25 00:26*	*1*
Terphenyl-d14 (Surr)	*84*		*44 - 147*	*01/28/25 10:34*	*01/29/25 00:26*	*1*

Client Sample ID: IB-02-CS

Date Collected: 01/24/25 11:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-22

Matrix: Solid
Percent Solids: 98.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*17 - 150*	*01/28/25 06:14*	*01/28/25 18:08*	*1*
DCB Decachlorobiphenyl	*78*		*17 - 150*	*01/28/25 06:14*	*01/28/25 18:08*	*1*
Tetrachloro-m-xylene	*68*		*21 - 150*	*01/28/25 06:14*	*01/28/25 18:08*	*1*
Tetrachloro-m-xylene	*65*		*21 - 150*	*01/28/25 06:14*	*01/28/25 18:08*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:28*	*1*
DCB Decachlorobiphenyl	*110*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:28*	*1*
Tetrachloro-m-xylene	*94*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:28*	*1*
Tetrachloro-m-xylene	*94*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:28*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Client Sample ID: IB-02-CS
Date Collected: 01/24/25 11:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-22
Matrix: Solid
Percent Solids: 98.8

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:25	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:25	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:25	1
C21-C40 Aliphatics	7.1	U *1	7.1	7.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:25	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:25	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:25	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 19:25	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:25*	*1*
2-Fluorobiphenyl	*83*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:25*	*1*
2-Bromonaphthalene	*80*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:25*	*1*
1-Chlorooctadecane	*77*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:25*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2940**		17.9	4.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Arsenic	**0.47**	**J**	0.90	0.092	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Barium	**3.7**		1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Calcium	36.5	U	89.6	36.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Chromium	**5.0**		1.8	0.81	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Cobalt	**0.19**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Copper	**1.1**	**J**	1.8	0.33	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Iron	**1760**		53.8	18.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Lead	**2.2**		0.54	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Magnesium	**112**		89.6	9.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Manganese	**5.2**		3.6	0.36	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Nickel	**1.1**	**J**	1.8	0.42	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Potassium	**80.4**	**J**	89.6	14.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Sodium	40.9	U	89.6	40.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Vanadium	**5.2**		1.8	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.010**	**J**	0.015	0.0071	mg/Kg	☼	01/29/25 00:52	01/29/25 04:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/29/25 18:15	01/29/25 21:39	1

Client Sample ID: IB-02-CS

Lab Sample ID: 460-319275-22
Date Collected: 01/24/25 11:00
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 98.8

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.2		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	98.8		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-03-TS

Lab Sample ID: 460-319275-23
Date Collected: 01/24/25 11:10
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 93.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00030	U H	0.0013	0.00030	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,1,2,2-Tetrachloroethane	0.00027	U H	0.0013	0.00027	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00038	U H	0.0013	0.00038	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,1,2-Trichloroethane	0.00023	U H	0.0013	0.00023	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,1-Dichloroethane	0.00026	U H	0.0013	0.00026	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,1-Dichloroethene	0.00029	U H	0.0013	0.00029	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,2,3-Trichlorobenzene	0.00023	U H	0.0013	0.00023	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,2,4-Trichlorobenzene	0.00045	U H	0.0013	0.00045	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,2-Dibromo-3-Chloropropane	0.00058	U H *-	0.0013	0.00058	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,2-Dibromoethane	0.00023	U H	0.0013	0.00023	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,2-Dichlorobenzene	0.00046	U H	0.0013	0.00046	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,2-Dichloroethane	0.00038	U H	0.0013	0.00038	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,2-Dichloropropane	0.00054	U H	0.0013	0.00054	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,3-Dichlorobenzene	0.00046	U H	0.0013	0.00046	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
1,4-Dichlorobenzene	0.00029	U H	0.0013	0.00029	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
2-Butanone (MEK)	0.00047	U H	0.0064	0.00047	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
2-Hexanone	0.0022	U H	0.0064	0.0022	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
4-Methyl-2-pentanone (MIBK)	0.0020	U H	0.0064	0.0020	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Acetone	0.0073	U H	0.0076	0.0073	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Benzene	0.00033	U H	0.0013	0.00033	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Bromodichloromethane	0.00033	U H	0.0013	0.00033	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Bromoform	0.00054	U H	0.0013	0.00054	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Bromomethane	0.0013	U H *+	0.0025	0.0013	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Carbon disulfide	0.00034	U H	0.0013	0.00034	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Carbon tetrachloride	0.00049	U H	0.0013	0.00049	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Chlorobenzene	0.00022	U H	0.0013	0.00022	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Chlorobromomethane	0.00036	U H	0.0013	0.00036	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Chloroethane	0.00066	U H	0.0013	0.00066	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Chloroform	0.0012	U H	0.0013	0.0012	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Chloromethane	0.00055	U H	0.0013	0.00055	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
cis-1,2-Dichloroethene	0.00045	U H	0.0013	0.00045	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
cis-1,3-Dichloropropene	0.00035	U H	0.0013	0.00035	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Cyclohexane	0.00028	U H	0.0013	0.00028	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Dibromochloromethane	0.00025	U H	0.0013	0.00025	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Dichlorodifluoromethane	0.00043	U H	0.0013	0.00043	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Ethylbenzene	0.00025	U H	0.0013	0.00025	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Isopropylbenzene	0.00036	U H	0.0013	0.00036	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Methyl acetate	0.0055	U H	0.0064	0.0055	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Methyl tert-butyl ether	0.00065	U H	0.0013	0.00065	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Methylcyclohexane	0.00063	U H	0.0013	0.00063	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Methylene Chloride	0.0015	U H	0.0025	0.0015	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1

Client Sample ID: IB-03-TS
Date Collected: 01/24/25 11:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-23
Matrix: Solid
Percent Solids: 93.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00022	U H	0.0013	0.00022	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
o-Xylene	0.00025	U H	0.0013	0.00025	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Styrene	0.00035	U H	0.0013	0.00035	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Tetrachloroethene	0.00039	U H	0.0013	0.00039	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Toluene	0.00030	U H	0.0013	0.00030	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
trans-1,2-Dichloroethene	0.00031	U H	0.0013	0.00031	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
trans-1,3-Dichloropropene	0.00034	U H	0.0013	0.00034	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Trichloroethene	0.00041	U H	0.0013	0.00041	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Trichlorofluoromethane	0.00052	U H	0.0013	0.00052	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1
Vinyl chloride	0.00069	U H	0.0013	0.00069	mg/Kg	☼	01/25/25 11:22	03/06/25 14:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:22*	*03/06/25 14:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*65 - 138*	*01/25/25 11:22*	*03/06/25 14:58*	*1*
4-Bromofluorobenzene	*113*		*71 - 128*	*01/25/25 11:22*	*03/06/25 14:58*	*1*
Dibromofluoromethane (Surr)	*114*		*50 - 150*	*01/25/25 11:22*	*03/06/25 14:58*	*1*
Toluene-d8 (Surr)	*107*		*71 - 126*	*01/25/25 11:22*	*03/06/25 14:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
1,2,4-Trichlorobenzene	0.0091	U H	0.035	0.0091	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
1,2-Dichlorobenzene	0.0060	U H	0.35	0.0060	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
1,2-Diphenylhydrazine	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
1,3-Dichlorobenzene	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
1,4-Dichlorobenzene	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2,4,5-Trichlorophenol	0.036	U H	0.35	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2,4,6-Trichlorophenol	0.045	U H	0.14	0.045	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2,4-Dichlorophenol	0.023	U H	0.14	0.023	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2,4-Dimethylphenol	0.042	U H	0.35	0.042	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2,4-Dinitrophenol	0.17	U H	0.28	0.17	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2,4-Dinitrotoluene	0.038	U H	0.072	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2,6-Dinitrotoluene	0.026	U H	0.072	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2-Chloronaphthalene	0.016	U H	0.35	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2-Chlorophenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2-Methylnaphthalene	0.0099	U H	0.35	0.0099	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2-Methylphenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2-Nitroaniline	0.027	U H	0.35	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
2-Nitrophenol	0.035	U H	0.35	0.035	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
3,3'-Dichlorobenzidine	0.053	U H	0.14	0.053	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
3-Nitroaniline	0.084	U H	0.35	0.084	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.28	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
4-Bromophenyl phenyl ether	0.014	U H	0.35	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
4-Chloro-3-methylphenol	0.020	U H	0.35	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
4-Chloroaniline	0.063	U H	0.35	0.063	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
4-Chlorophenyl phenyl ether	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
4-Methylphenol	0.022	U H	0.35	0.022	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
4-Nitroaniline	0.041	U H	0.35	0.041	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1

Client Sample ID: IB-03-TS
Date Collected: 01/24/25 11:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-23
Matrix: Solid
Percent Solids: 93.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.058	U H	0.72	0.058	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Acenaphthene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Acenaphthylene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Acetophenone	**0.019**	**J H**	0.35	0.017	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Anthracene	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Atrazine	0.021	U H	0.14	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Benzaldehyde	**0.22**	**J H**	0.35	0.058	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Benzidine	0.074	U H *+	0.35	0.074	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Benzo[a]anthracene	**0.039**	**H**	0.035	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Benzo[a]pyrene	**0.031**	**J H**	0.035	0.0094	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Benzo[b]fluoranthene	**0.068**	**H**	0.035	0.0091	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Benzo[g,h,i]perylene	**0.035**	**J H**	0.35	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Benzo[k]fluoranthene	**0.020**	**J H**	0.035	0.0069	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
bis (2-chloroisopropyl) ether	0.021	U H	0.35	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Bis(2-chloroethoxy)methane	0.028	U H	0.35	0.028	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Bis(2-chloroethyl)ether	0.012	U H	0.035	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Bis(2-ethylhexyl) phthalate	**0.15**	**J H**	0.35	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Butyl benzyl phthalate	0.017	U H	0.35	0.017	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Caprolactam	0.055	U H	0.35	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Carbazole	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Chrysene	**0.051**	**J H**	0.35	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Dibenz(a,h)anthracene	0.015	U H	0.035	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Dibenzofuran	0.012	U H	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Diethyl phthalate	0.011	U H	0.35	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Dimethyl phthalate	0.080	U H	0.35	0.080	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Di-n-butyl phthalate	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Di-n-octyl phthalate	0.019	U H	0.35	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Fluoranthene	**0.087**	**J H**	0.35	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Fluorene	0.010	U H	0.35	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Hexachlorobenzene	0.017	U H	0.035	0.017	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Hexachlorobutadiene	0.0075	U H	0.072	0.0075	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Hexachlorocyclopentadiene	0.031	U H *+	0.35	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Hexachloroethane	0.012	U H	0.035	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Indeno[1,2,3-cd]pyrene	**0.031**	**J H**	0.035	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Isophorone	0.10	U H	0.14	0.10	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Naphthalene	**0.0092**	**J H**	0.35	0.0061	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Nitrobenzene	0.020	U H	0.035	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
N-Nitrosodimethylamine	0.033	U H	0.35	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
N-Nitrosodi-n-propylamine	0.026	U H	0.035	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
N-Nitrosodiphenylamine	0.029	U H	0.35	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Pentachlorophenol	0.072	U H	0.28	0.072	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Phenanthrene	**0.028**	**J H**	0.35	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Phenol	0.013	U H	0.35	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1
Pyrene	**0.058**	**J H**	0.35	0.0088	mg/Kg	☼	03/04/25 08:46	03/04/25 21:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzeneacetic acid	*0.80*	*H J N*	*mg/Kg*	☼	*5.68*	*103-82-2*	*03/04/25 08:46*	*03/04/25 21:14*	*1*
Unknown	*0.94*	*H J*	*mg/Kg*	☼	*6.13*	*N/A*	*03/04/25 08:46*	*03/04/25 21:14*	*1*
Benzoic acid, 4-hydroxy-3-methoxy-	*0.63*	*H J N*	*mg/Kg*	☼	*7.36*	*121-34-6*	*03/04/25 08:46*	*03/04/25 21:14*	*1*
n-Hexadecanoic acid	*1.1*	*H J N*	*mg/Kg*	☼	*9.08*	*57-10-3*	*03/04/25 08:46*	*03/04/25 21:14*	*1*

Client Sample ID: IB-03-TS
Date Collected: 01/24/25 11:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-23
Matrix: Solid
Percent Solids: 93.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.64	H J	mg/Kg	☼	9.79	N/A	03/04/25 08:46	03/04/25 21:14	1
Tetradecanal	0.80	H J N	mg/Kg	☼	10.83	124-25-4	03/04/25 08:46	03/04/25 21:14	1
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	1.8	H J N	mg/Kg	☼	10.96	1740-19-8	03/04/25 08:46	03/04/25 21:14	1
5-Eicosene, (E)-	1.6	H J N	mg/Kg	☼	11.06	74685-30-6	03/04/25 08:46	03/04/25 21:14	1
Unknown	0.94	H J	mg/Kg	☼	11.34	N/A	03/04/25 08:46	03/04/25 21:14	1
Unknown	1.3	H J	mg/Kg	☼	11.43	N/A	03/04/25 08:46	03/04/25 21:14	1
1-Docosene	3.9	H J N	mg/Kg	☼	11.90	1599-67-3	03/04/25 08:46	03/04/25 21:14	1
Tetracosanoic acid	1.9	H J N	mg/Kg	☼	12.21	557-59-5	03/04/25 08:46	03/04/25 21:14	1
Octadecanal	1.4	H J N	mg/Kg	☼	13.55	638-66-4	03/04/25 08:46	03/04/25 21:14	1
Unknown	1.4	H J	mg/Kg	☼	13.81	N/A	03/04/25 08:46	03/04/25 21:14	1
Unknown	3.8	H J	mg/Kg	☼	13.89	N/A	03/04/25 08:46	03/04/25 21:14	1
Bicyclo[10.8.0]eicosane, cis-	2.6	H J N	mg/Kg	☼	14.67	1000155-82-2	03/04/25 08:46	03/04/25 21:14	1
Pregn-5-en-3-ol, 21-bromo-20-methyl-, (3.beta.)-	8.0	H J N	mg/Kg	☼	15.23	55103-80-5	03/04/25 08:46	03/04/25 21:14	1
Unknown	2.4	H J	mg/Kg	☼	15.46	N/A	03/04/25 08:46	03/04/25 21:14	1
Unknown	3.5	H J	mg/Kg	☼	17.07	N/A	03/04/25 08:46	03/04/25 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		24 - 137	03/04/25 08:46	03/04/25 21:14	1
2-Fluorobiphenyl	80		38 - 128	03/04/25 08:46	03/04/25 21:14	1
2-Fluorophenol (Surr)	86		31 - 133	03/04/25 08:46	03/04/25 21:14	1
Nitrobenzene-d5 (Surr)	77		31 - 120	03/04/25 08:46	03/04/25 21:14	1
Phenol-d5 (Surr)	90		35 - 132	03/04/25 08:46	03/04/25 21:14	1
Terphenyl-d14 (Surr)	74		44 - 147	03/04/25 08:46	03/04/25 21:14	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0072	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
4,4'-DDE	0.00085	U H	0.0072	0.00085	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
4,4'-DDT	0.0013	U H	0.0072	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Aldrin	0.0011	U H	0.0072	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
alpha-BHC	0.00073	U H	0.0021	0.00073	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
beta-BHC	0.00080	U H	0.0021	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
delta-BHC	0.00044	U H	0.0021	0.00044	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Dieldrin	0.00093	U H	0.0021	0.00093	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Endosulfan I	0.0011	U H	0.0072	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Endosulfan II	0.0018	U H	0.0072	0.0018	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Endosulfan sulfate	0.00090	U H	0.0072	0.00090	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Endrin	0.0010	U H	0.0072	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Endrin aldehyde	0.0017	U H	0.0072	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Endrin ketone	0.0014	U H	0.0072	0.0014	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
gamma-BHC (Lindane)	0.00066	U H	0.0021	0.00066	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Heptachlor	0.00085	U H	0.0072	0.00085	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Heptachlor epoxide	0.0011	U H	0.0072	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Methoxychlor	0.0016	U H	0.0072	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Toxaphene	0.026	U H	0.072	0.026	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1
Chlordane (n.o.s.)	0.017	U H	0.072	0.017	mg/Kg	☼	03/05/25 17:24	03/06/25 08:35	1

Client Sample ID: IB-03-TS

Date Collected: 01/24/25 11:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-23

Matrix: Solid
Percent Solids: 93.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*17 - 150*	*03/05/25 17:24*	*03/06/25 08:35*	*1*
DCB Decachlorobiphenyl	*45*		*17 - 150*	*03/05/25 17:24*	*03/06/25 08:35*	*1*
Tetrachloro-m-xylene	*151*	*S1+*	*21 - 150*	*03/05/25 17:24*	*03/06/25 08:35*	*1*
Tetrachloro-m-xylene	*85*		*21 - 150*	*03/05/25 17:24*	*03/06/25 08:35*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Aroclor 1221	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Aroclor 1232	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Aroclor 1242	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Aroclor 1248	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Aroclor 1254	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Aroclor 1260	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Aroclor-1262	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Aroclor 1268	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1
Polychlorinated biphenyls, Total	0.019	U	0.072	0.019	mg/Kg	☼	03/05/25 17:15	03/06/25 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:43*	*1*
DCB Decachlorobiphenyl	*51*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:43*	*1*
Tetrachloro-m-xylene	*69*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:43*	*1*
Tetrachloro-m-xylene	*91*		*20 - 150*	*03/05/25 17:15*	*03/06/25 12:43*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	**15**		2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	**15**		2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:47	1
C9-C12 Aliphatics	3.2	U H	3.2	3.2	mg/Kg	☼	03/06/25 22:12	03/07/25 11:47	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:47	1
C21-C40 Aliphatics	**15**	**H**	7.5	7.5	mg/Kg	☼	03/06/25 22:12	03/07/25 11:47	1
C16-C21 Aromatics	5.4	U H	5.4	5.4	mg/Kg	☼	03/06/25 22:12	03/07/25 11:31	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:31	1
C12-C16 Aromatics	3.2	U H	3.2	3.2	mg/Kg	☼	03/06/25 22:12	03/07/25 11:31	1
C21-C36 Aromatic	8.6	U H	8.6	8.6	mg/Kg	☼	03/06/25 22:12	03/07/25 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:31*	*1*
2-Fluorobiphenyl	*82*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:31*	*1*
2-Bromonaphthalene	*74*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:31*	*1*
1-Chlorooctadecane	*49*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:47*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2190**		19.3	5.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Antimony	**0.19**	**J**	0.97	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1

Client Sample ID: IB-03-TS

Date Collected: 01/24/25 11:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-23

Matrix: Solid
Percent Solids: 93.3

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2		0.97	0.099	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Barium	11.4		1.9	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Beryllium	0.055	U	0.39	0.055	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Cadmium	0.11	U	0.97	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Calcium	487		96.6	39.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Chromium	4.1		1.9	0.88	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Cobalt	0.23	J	1.9	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Copper	4.9		1.9	0.36	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Iron	2530		58.0	19.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Lead	22.2		0.58	0.19	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Magnesium	122		96.6	9.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Manganese	6.3		3.9	0.39	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Nickel	1.6	J	1.9	0.45	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Potassium	122		96.6	15.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Selenium	0.24	J	1.2	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Silver	0.086	U	0.39	0.086	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Sodium	44.1	U	96.6	44.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Thallium	0.040	U	0.39	0.040	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Vanadium	7.0		1.9	0.20	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1
Zinc	9.6		7.7	2.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045	H	0.018	0.0086	mg/Kg	☼	03/07/25 01:02	03/07/25 05:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.23	0.13	mg/Kg	☼	03/07/25 18:23	03/09/25 16:15	1
Percent Moisture (EPA Moisture)	6.7		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	93.3		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: IB-03-CS

Date Collected: 01/24/25 11:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-24

Matrix: Solid
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,1,2,2-Tetrachloroethane	0.00026	U H	0.0012	0.00026	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00037	U H	0.0012	0.00037	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,1,2-Trichloroethane	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,1-Dichloroethane	0.00025	U H	0.0012	0.00025	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,1-Dichloroethene	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,2,3-Trichlorobenzene	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,2,4-Trichlorobenzene	0.00044	U H	0.0012	0.00044	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,2-Dibromo-3-Chloropropane	0.00056	U H *-	0.0012	0.00056	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,2-Dibromoethane	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,2-Dichlorobenzene	0.00044	U H	0.0012	0.00044	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,2-Dichloroethane	0.00036	U H	0.0012	0.00036	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,2-Dichloropropane	0.00052	U H	0.0012	0.00052	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-03-CS
Date Collected: 01/24/25 11:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-24
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00045	U H	0.0012	0.00045	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
1,4-Dichlorobenzene	0.00028	U H	0.0012	0.00028	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
2-Butanone (MEK)	0.00045	U H	0.0061	0.00045	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
2-Hexanone	0.0021	U H	0.0061	0.0021	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
4-Methyl-2-pentanone (MIBK)	0.0019	U H	0.0061	0.0019	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Acetone	0.0070	U H	0.0073	0.0070	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Benzene	0.00032	U H	0.0012	0.00032	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Bromodichloromethane	0.00031	U H	0.0012	0.00031	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Bromoform	0.00052	U H	0.0012	0.00052	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Bromomethane	0.0012	U H *+	0.0024	0.0012	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Carbon disulfide	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Carbon tetrachloride	0.00047	U H	0.0012	0.00047	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Chlorobenzene	0.00022	U H	0.0012	0.00022	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Chlorobromomethane	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Chloroethane	0.00064	U H	0.0012	0.00064	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Chloroform	0.0012	U H	0.0012	0.0012	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Chloromethane	0.00053	U H	0.0012	0.00053	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
cis-1,2-Dichloroethene	0.00044	U H	0.0012	0.00044	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
cis-1,3-Dichloropropene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Cyclohexane	0.00027	U H	0.0012	0.00027	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Dibromochloromethane	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Dichlorodifluoromethane	0.00041	U H	0.0012	0.00041	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Ethylbenzene	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Isopropylbenzene	0.00035	U H	0.0012	0.00035	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Methyl acetate	0.0053	U H	0.0061	0.0053	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Methyl tert-butyl ether	0.00063	U H	0.0012	0.00063	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Methylcyclohexane	0.00061	U H	0.0012	0.00061	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Methylene Chloride	0.0014	U H	0.0024	0.0014	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
m-Xylene & p-Xylene	0.00021	U H	0.0012	0.00021	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
o-Xylene	0.00024	U H	0.0012	0.00024	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Styrene	0.00034	U H	0.0012	0.00034	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Tetrachloroethene	0.00037	U H	0.0012	0.00037	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Toluene	0.00029	U H	0.0012	0.00029	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
trans-1,2-Dichloroethene	0.00030	U H	0.0012	0.00030	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
trans-1,3-Dichloropropene	0.00033	U H	0.0012	0.00033	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Trichloroethene	0.00039	U H	0.0012	0.00039	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Trichlorofluoromethane	0.00050	U H	0.0012	0.00050	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1
Vinyl chloride	0.00067	U H	0.0012	0.00067	mg/Kg	☼	01/25/25 11:23	03/06/25 15:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:23*	*03/06/25 15:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/25/25 11:23*	*03/06/25 15:21*	*1*
4-Bromofluorobenzene	*94*		*71 - 128*	*01/25/25 11:23*	*03/06/25 15:21*	*1*
Dibromofluoromethane (Surr)	*112*		*50 - 150*	*01/25/25 11:23*	*03/06/25 15:21*	*1*
Toluene-d8 (Surr)	*114*		*71 - 126*	*01/25/25 11:23*	*03/06/25 15:21*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-03-CS
Date Collected: 01/24/25 11:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-24
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2,4-Dinitrotoluene	0.036	U H	0.068	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2,6-Dinitrotoluene	0.024	U H	0.068	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
4-Nitrophenol	0.054	U H	0.68	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Benzidine	0.070	U H *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1

Client Sample ID: IB-03-CS
Date Collected: 01/24/25 11:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-24
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Fluorene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Hexachlorobutadiene	0.0071	U H	0.068	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Nitrobenzene	0.019	U H	0.033	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:46	03/04/25 23:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
n-Hexadecanoic acid	*0.36*	*H J N*	*mg/Kg*	☼	*9.08*	*57-10-3*	*03/04/25 08:46*	*03/04/25 23:00*	*1*
1-Docosene	*0.36*	*H J N*	*mg/Kg*	☼	*11.90*	*1599-67-3*	*03/04/25 08:46*	*03/04/25 23:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*24 - 137*	*03/04/25 08:46*	*03/04/25 23:00*	*1*
2-Fluorobiphenyl	*59*		*38 - 128*	*03/04/25 08:46*	*03/04/25 23:00*	*1*
2-Fluorophenol (Surr)	*65*		*31 - 133*	*03/04/25 08:46*	*03/04/25 23:00*	*1*
Nitrobenzene-d5 (Surr)	*60*		*31 - 120*	*03/04/25 08:46*	*03/04/25 23:00*	*1*
Phenol-d5 (Surr)	*66*		*35 - 132*	*03/04/25 08:46*	*03/04/25 23:00*	*1*
Terphenyl-d14 (Surr)	*57*		*44 - 147*	*03/04/25 08:46*	*03/04/25 23:00*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0068	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
4,4'-DDE	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
4,4'-DDT	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Dieldrin	0.00088	U H	0.0020	0.00088	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Endosulfan II	0.0017	U H	0.0068	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Endosulfan sulfate	0.00085	U H	0.0068	0.00085	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Endrin	0.00097	U H	0.0068	0.00097	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1

Client Sample ID: IB-03-CS
Date Collected: 01/24/25 11:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-24
Matrix: Solid
Percent Solids: 99.0

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Heptachlor	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Methoxychlor	0.0015	U H	0.0068	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Toxaphene	0.024	U H	0.068	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1
Chlordane (n.o.s.)	0.016	U H	0.068	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*17 - 150*	*03/05/25 17:24*	*03/06/25 08:48*	*1*
DCB Decachlorobiphenyl	*70*		*17 - 150*	*03/05/25 17:24*	*03/06/25 08:48*	*1*
Tetrachloro-m-xylene	*162*	*S1+*	*21 - 150*	*03/05/25 17:24*	*03/06/25 08:48*	*1*
Tetrachloro-m-xylene	*113*		*21 - 150*	*03/05/25 17:24*	*03/06/25 08:48*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:00*	*1*
DCB Decachlorobiphenyl	*73*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:00*	*1*
Tetrachloro-m-xylene	*103*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:00*	*1*
Tetrachloro-m-xylene	*133*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:00*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:02	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:02	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:02	1
C21-C40 Aliphatics	7.1	U H	7.1	7.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:02	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:47	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:47	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 11:47	1
C21-C36 Aromatic	8.1	U H	8.1	8.1	mg/Kg	☼	03/06/25 22:12	03/07/25 11:47	1

Client Sample ID: IB-03-CS

Date Collected: 01/24/25 11:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-24

Matrix: Solid
Percent Solids: 99.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*61*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:47*	*1*
2-Fluorobiphenyl	*76*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:47*	*1*
2-Bromonaphthalene	*68*		*40 - 140*	*03/06/25 22:12*	*03/07/25 11:47*	*1*
1-Chlorooctadecane	*49*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:02*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1570**		17.3	4.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Antimony	0.13	U	0.86	0.13	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Arsenic	**0.50**	**J**	0.86	0.089	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Barium	**1.8**		1.7	0.13	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Beryllium	0.049	U	0.35	0.049	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Cadmium	0.098	U	0.86	0.098	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Calcium	35.1	U	86.3	35.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Chromium	**3.6**		1.7	0.78	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Cobalt	**0.23**	**J**	1.7	0.13	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Copper	**1.0**	**J**	1.7	0.32	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Iron	**1430**		51.8	17.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Lead	**1.5**		0.52	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Magnesium	**35.6**	**J**	86.3	8.8	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Manganese	**6.6**		3.5	0.35	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Nickel	**0.60**	**J**	1.7	0.41	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Potassium	**31.1**	**J**	86.3	14.0	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Silver	0.077	U	0.35	0.077	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Sodium	39.4	U	86.3	39.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Thallium	0.035	U	0.35	0.035	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Vanadium	**3.0**		1.7	0.18	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1
Zinc	2.6	U	6.9	2.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0078	U H	0.017	0.0078	mg/Kg	☼	03/07/25 01:02	03/07/25 05:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.24	0.13	mg/Kg	☼	03/07/25 18:23	03/09/25 16:16	1
Percent Moisture (EPA Moisture)	**1**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.0**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2B-02-TS

Date Collected: 01/24/25 12:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-25

Matrix: Solid
Percent Solids: 96.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,1,2,2-Tetrachloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00036	U	0.0012	0.00036	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,1,2-Trichloroethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,1-Dichloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1

Client Sample ID: 2B-02-TS
Date Collected: 01/24/25 12:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-25
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,2,3-Trichlorobenzene	0.00022	U	0.0012	0.00022	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,2,4-Trichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,2-Dibromo-3-Chloropropane	0.00055	U *+	0.0012	0.00055	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,2-Dibromoethane	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,2-Dichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,2-Dichloroethane	0.00035	U	0.0012	0.00035	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,2-Dichloropropane	0.00050	U	0.0012	0.00050	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,3-Dichlorobenzene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
1,4-Dichlorobenzene	0.00027	U	0.0012	0.00027	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
2-Butanone (MEK)	0.00044	U	0.0059	0.00044	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
2-Hexanone	0.0020	U *-	0.0059	0.0020	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
4-Methyl-2-pentanone (MIBK)	0.0019	U *-	0.0059	0.0019	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Acetone	**0.023**		0.0071	0.0068	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Benzene	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Bromodichloromethane	0.00031	U	0.0012	0.00031	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Bromoform	0.00051	U	0.0012	0.00051	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Bromomethane	0.0012	U *+	0.0024	0.0012	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Carbon disulfide	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Carbon tetrachloride	0.00046	U	0.0012	0.00046	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Chlorobenzene	0.00021	U	0.0012	0.00021	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Chlorobromomethane	0.00033	U *+	0.0012	0.00033	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Chloroethane	0.00062	U	0.0012	0.00062	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Chloroform	0.0012	U	0.0012	0.0012	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Chloromethane	0.00052	U	0.0012	0.00052	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
cis-1,2-Dichloroethene	0.00043	U	0.0012	0.00043	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
cis-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Cyclohexane	0.00026	U	0.0012	0.00026	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Dibromochloromethane	0.00023	U	0.0012	0.00023	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Dichlorodifluoromethane	0.00040	U	0.0012	0.00040	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Ethylbenzene	0.00024	U	0.0012	0.00024	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Isopropylbenzene	0.00034	U	0.0012	0.00034	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Methyl acetate	0.0051	U *+	0.0059	0.0051	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Methyl tert-butyl ether	0.00061	U	0.0012	0.00061	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Methylcyclohexane	0.00059	U	0.0012	0.00059	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Methylene Chloride	0.0014	U	0.0024	0.0014	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
m-Xylene & p-Xylene	**0.00076**	**J**	0.0012	0.00021	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
o-Xylene	**0.00056**	**J**	0.0012	0.00023	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Styrene	0.00033	U	0.0012	0.00033	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Tetrachloroethene	0.00036	U	0.0012	0.00036	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Toluene	0.00028	U	0.0012	0.00028	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
trans-1,2-Dichloroethene	0.00029	U	0.0012	0.00029	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
trans-1,3-Dichloropropene	0.00032	U	0.0012	0.00032	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Trichloroethene	0.00038	U	0.0012	0.00038	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Trichlorofluoromethane	0.00048	U	0.0012	0.00048	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1
Vinyl chloride	0.00065	U	0.0012	0.00065	mg/Kg	☼	01/25/25 11:24	01/30/25 00:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:24*	*01/30/25 00:56*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2B-02-TS

Date Collected: 01/24/25 12:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-25

Matrix: Solid
Percent Solids: 96.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 138*	*01/25/25 11:24*	*01/30/25 00:56*	*1*
4-Bromofluorobenzene	*87*		*71 - 128*	*01/25/25 11:24*	*01/30/25 00:56*	*1*
Dibromofluoromethane (Surr)	*119*		*50 - 150*	*01/25/25 11:24*	*01/30/25 00:56*	*1*
Toluene-d8 (Surr)	*90*		*71 - 126*	*01/25/25 11:24*	*01/30/25 00:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
1,2,4-Trichlorobenzene	0.0088	U	0.034	0.0088	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
1,2-Dichlorobenzene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
1,2-Diphenylhydrazine	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2-Methylnaphthalene	0.0096	U	0.34	0.0096	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
4-Nitroaniline	0.040	U	0.34	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Acenaphthylene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Anthracene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Benzidine	0.072	U	0.34	0.072	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Benzo[a]pyrene	0.0092	U	0.034	0.0092	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Benzo[b]fluoranthene	0.0089	U	0.034	0.0089	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Benzo[g,h,i]perylene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Benzo[k]fluoranthene	0.0067	U	0.034	0.0067	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
bis (2-chloroisopropyl) ether	0.021	U	0.34	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1

Client Sample ID: 2B-02-TS
Date Collected: 01/24/25 12:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-25
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Caprolactam	0.054	U	0.34	0.054	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Chrysene	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Fluoranthene	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Hexachlorobutadiene	0.0073	U	0.070	0.0073	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Isophorone	0.099	U	0.14	0.099	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Naphthalene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1
Pyrene	0.0086	U	0.34	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 03:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
.beta.-Pinene	*0.29*	*J N*	*mg/Kg*	☼	*4.06*	*127-91-3*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.88*	*J N*	*mg/Kg*	☼	*11.12*	*5155-70-4*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
Unknown	*0.31*	*J*	*mg/Kg*	☼	*15.28*	*N/A*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
Unknown	*0.74*	*J*	*mg/Kg*	☼	*15.67*	*N/A*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
Stigmast-4-en-3-one	*0.29*	*J N*	*mg/Kg*	☼	*16.76*	*1058-61-3*	*01/28/25 10:34*	*01/29/25 03:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*24 - 137*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
2-Fluorobiphenyl	*70*		*38 - 128*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
2-Fluorophenol (Surr)	*60*		*31 - 133*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
Nitrobenzene-d5 (Surr)	*64*		*31 - 120*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
Phenol-d5 (Surr)	*65*		*35 - 132*	*01/28/25 10:34*	*01/29/25 03:02*	*1*
Terphenyl-d14 (Surr)	*75*		*44 - 147*	*01/28/25 10:34*	*01/29/25 03:02*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
4,4'-DDE	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1

Client Sample ID: 2B-02-TS
Date Collected: 01/24/25 12:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-25
Matrix: Solid
Percent Solids: 96.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Aldrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Dieldrin	0.00090	U	0.0021	0.00090	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Endosulfan sulfate	0.00087	U	0.0070	0.00087	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Endrin aldehyde	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
gamma-BHC (Lindane)	0.00064	U	0.0021	0.00064	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Heptachlor	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	01/28/25 06:14	01/28/25 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*119*		*17 - 150*	*01/28/25 06:14*	*01/28/25 18:21*	*1*
DCB Decachlorobiphenyl	*110*		*17 - 150*	*01/28/25 06:14*	*01/28/25 18:21*	*1*
Tetrachloro-m-xylene	*96*		*21 - 150*	*01/28/25 06:14*	*01/28/25 18:21*	*1*
Tetrachloro-m-xylene	*91*		*21 - 150*	*01/28/25 06:14*	*01/28/25 18:21*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Aroclor 1221	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Aroclor 1232	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Aroclor 1242	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Aroclor 1248	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Aroclor 1254	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Aroclor 1260	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Aroclor-1262	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Aroclor 1268	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1
Polychlorinated biphenyls, Total	0.018	U	0.070	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:45*	*1*
DCB Decachlorobiphenyl	*126*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:45*	*1*
Tetrachloro-m-xylene	*91*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:45*	*1*
Tetrachloro-m-xylene	*91*		*20 - 150*	*01/28/25 06:19*	*01/28/25 18:45*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**3.8**		2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	**3.8**		2.0	0.010	mg/Kg			01/30/25 11:49	1

Client Sample ID: 2B-02-TS

Date Collected: 01/24/25 12:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-25

Matrix: Solid
Percent Solids: 96.2

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:40	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:40	1
C16-C21 Aliphatics	2.1	U *1	2.1	2.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:40	1
C21-C40 Aliphatics	7.3	U *1	7.3	7.3	mg/Kg	☼	01/29/25 22:14	01/30/25 19:40	1
C16-C21 Aromatics	5.2	U	5.2	5.2	mg/Kg	☼	01/29/25 22:14	01/30/25 19:40	1
C10-C12 Aromatics	**3.8**		2.1	2.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:40	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:40	1
C21-C36 Aromatic	8.3	U	8.3	8.3	mg/Kg	☼	01/29/25 22:14	01/30/25 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:40*	*1*
2-Fluorobiphenyl	*92*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:40*	*1*
2-Bromonaphthalene	*87*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:40*	*1*
1-Chlorooctadecane	*74*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:40*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**392**		19.3	5.3	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Antimony	0.14	U	0.96	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Arsenic	**0.26**	**J**	0.96	0.099	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Barium	**2.3**		1.9	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Beryllium	0.055	U	0.39	0.055	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Cadmium	0.11	U	0.96	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Calcium	**66.0**	**J**	96.3	39.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Chromium	**1.0**	**J**	1.9	0.87	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Copper	**1.2**	**J**	1.9	0.35	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Iron	**319**		57.8	19.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Lead	**4.0**		0.58	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Magnesium	**21.5**	**J**	96.3	9.8	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Manganese	**3.7**	**J**	3.9	0.39	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Nickel	0.45	U	1.9	0.45	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Potassium	**18.5**	**J**	96.3	15.6	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Silver	0.086	U	0.39	0.086	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Sodium	44.0	U	96.3	44.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Thallium	0.039	U	0.39	0.039	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Vanadium	**1.7**	**J**	1.9	0.20	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1
Zinc	2.9	U	7.7	2.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	U	0.016	0.0076	mg/Kg	☼	01/29/25 00:52	01/29/25 04:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	U	0.25	0.14	mg/Kg	☼	01/29/25 18:15	01/29/25 21:43	1
Percent Moisture (EPA Moisture)	**3.8**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**96.2**		1.0	1.0	%			01/27/25 07:37	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2B-02-CS
Date Collected: 01/24/25 12:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-26
Matrix: Solid
Percent Solids: 95.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,2-Dibromo-3-Chloropropane	0.00051	U *+	0.0011	0.00051	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,2-Dibromoethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,2-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,2-Dichloroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,2-Dichloropropane	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,3-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
2-Butanone (MEK)	0.00040	U	0.0055	0.00040	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
2-Hexanone	0.0019	U *-	0.0055	0.0019	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
4-Methyl-2-pentanone (MIBK)	0.0017	U *-	0.0055	0.0017	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Acetone	**0.014**		0.0066	0.0063	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Bromodichloromethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Bromoform	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Bromomethane	0.0011	U *+	0.0022	0.0011	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Carbon disulfide	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Carbon tetrachloride	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Chlorobromomethane	0.00031	U *+	0.0011	0.00031	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Chloroethane	0.00057	U	0.0011	0.00057	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Chloromethane	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Isopropylbenzene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Methyl acetate	0.0047	U *+	0.0055	0.0047	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Methyl tert-butyl ether	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Methylcyclohexane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
m-Xylene & p-Xylene	**0.00020**	**J**	0.0011	0.00019	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Tetrachloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2B-02-CS
Date Collected: 01/24/25 12:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-26
Matrix: Solid
Percent Solids: 95.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1
Vinyl chloride	0.00060	U	0.0011	0.00060	mg/Kg	☼	01/25/25 11:24	01/30/25 01:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:24*	*01/30/25 01:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 138*	*01/25/25 11:24*	*01/30/25 01:19*	*1*
4-Bromofluorobenzene	*85*		*71 - 128*	*01/25/25 11:24*	*01/30/25 01:19*	*1*
Dibromofluoromethane (Surr)	*118*		*50 - 150*	*01/25/25 11:24*	*01/30/25 01:19*	*1*
Toluene-d8 (Surr)	*87*		*71 - 126*	*01/25/25 11:24*	*01/30/25 01:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
1,2,4-Trichlorobenzene	0.0089	U	0.034	0.0089	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
1,2-Dichlorobenzene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
1,2-Diphenylhydrazine	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2-Methylnaphthalene	0.0097	U	0.34	0.0097	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
2-Nitrophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
4-Methylphenol	0.022	U	0.34	0.022	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
4-Nitroaniline	0.040	U	0.34	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Acenaphthylene	0.0099	U	0.34	0.0099	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Anthracene	0.011	U	0.34	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Benzidine	0.072	U	0.34	0.072	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1

Client Sample ID: 2B-02-CS
Date Collected: 01/24/25 12:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-26
Matrix: Solid
Percent Solids: 95.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Benzo[a]pyrene	0.0092	U	0.034	0.0092	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Benzo[b]fluoranthene	0.0089	U	0.034	0.0089	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Benzo[g,h,i]perylene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Benzo[k]fluoranthene	0.0068	U	0.034	0.0068	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
bis (2-chloroisopropyl) ether	0.021	U	0.34	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Caprolactam	0.054	U	0.34	0.054	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Chrysene	0.015	U	0.34	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Dibenzofuran	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Dimethyl phthalate	0.079	U	0.34	0.079	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Fluoranthene	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Naphthalene	0.0060	U	0.34	0.0060	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1
Pyrene	0.0086	U	0.34	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 00:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/28/25 10:34*	*01/29/25 00:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*24 - 137*	*01/28/25 10:34*	*01/29/25 00:48*	*1*
2-Fluorobiphenyl	*73*		*38 - 128*	*01/28/25 10:34*	*01/29/25 00:48*	*1*
2-Fluorophenol (Surr)	*62*		*31 - 133*	*01/28/25 10:34*	*01/29/25 00:48*	*1*
Nitrobenzene-d5 (Surr)	*69*		*31 - 120*	*01/28/25 10:34*	*01/29/25 00:48*	*1*
Phenol-d5 (Surr)	*67*		*35 - 132*	*01/28/25 10:34*	*01/29/25 00:48*	*1*
Terphenyl-d14 (Surr)	*77*		*44 - 147*	*01/28/25 10:34*	*01/29/25 00:48*	*1*

Client Sample ID: 2B-02-CS

Date Collected: 01/24/25 12:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-26

Matrix: Solid
Percent Solids: 95.7

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
4,4'-DDE	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Endosulfan sulfate	0.00088	U	0.0070	0.00088	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Endrin aldehyde	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Heptachlor	0.00082	U	0.0070	0.00082	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	01/28/25 06:14	01/28/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*128*		*17 - 150*	*01/28/25 06:14*	*01/28/25 18:34*	*1*
DCB Decachlorobiphenyl	*111*		*17 - 150*	*01/28/25 06:14*	*01/28/25 18:34*	*1*
Tetrachloro-m-xylene	*106*		*21 - 150*	*01/28/25 06:14*	*01/28/25 18:34*	*1*
Tetrachloro-m-xylene	*104*		*21 - 150*	*01/28/25 06:14*	*01/28/25 18:34*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1
Polychlorinated biphenyls, Total	0.019	U	0.070	0.019	mg/Kg	☼	01/28/25 06:19	01/28/25 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*129*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:01*	*1*
DCB Decachlorobiphenyl	*106*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:01*	*1*
Tetrachloro-m-xylene	*101*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:01*	*1*
Tetrachloro-m-xylene	*100*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:01*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Client Sample ID: 2B-02-CS

Date Collected: 01/24/25 12:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-26

Matrix: Solid
Percent Solids: 95.7

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:56	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:56	1
C16-C21 Aliphatics	2.1	U *1	2.1	2.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:56	1
C21-C40 Aliphatics	7.3	U *1	7.3	7.3	mg/Kg	☼	01/29/25 22:14	01/30/25 19:56	1
C16-C21 Aromatics	5.2	U	5.2	5.2	mg/Kg	☼	01/29/25 22:14	01/30/25 19:56	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:56	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/29/25 22:14	01/30/25 19:56	1
C21-C36 Aromatic	8.3	U	8.3	8.3	mg/Kg	☼	01/29/25 22:14	01/30/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:56*	*1*
2-Fluorobiphenyl	*92*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:56*	*1*
2-Bromonaphthalene	*89*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:56*	*1*
1-Chlorooctadecane	*76*		*40 - 140*	*01/29/25 22:14*	*01/30/25 19:56*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15900**		18.5	5.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Antimony	0.14	U	0.92	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Arsenic	**3.2**		0.92	0.095	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Barium	**9.9**		1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Beryllium	**0.11**	**J**	0.37	0.053	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Calcium	37.6	U	92.5	37.6	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Chromium	**15.6**		1.8	0.84	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Cobalt	**0.66**	**J**	1.8	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Copper	**7.4**		1.8	0.34	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Iron	**9040**		55.5	18.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Lead	**2.9**		0.55	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Magnesium	**158**		92.5	9.4	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Manganese	**6.2**		3.7	0.37	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Nickel	**4.1**		1.8	0.43	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Potassium	**197**		92.5	15.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Selenium	**0.26**	**J**	1.2	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Sodium	42.3	U	92.5	42.3	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Thallium	**0.042**	**J**	0.37	0.038	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Vanadium	**20.0**		1.8	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1
Zinc	**4.9**	**J**	7.4	2.8	mg/Kg	☼	01/29/25 07:26	01/30/25 15:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.017	0.0082	mg/Kg	☼	01/29/25 00:52	01/29/25 04:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/29/25 18:15	01/29/25 21:44	1

Client Sample ID: 2B-02-CS

Lab Sample ID: 460-319275-26

Date Collected: 01/24/25 12:40
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 95.7

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.3**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**95.7**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2B-01-TS

Lab Sample ID: 460-319275-27

Date Collected: 01/24/25 12:50
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 97.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,1,2-Trichloroethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,1-Dichloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,1-Dichloroethene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,2,3-Trichlorobenzene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,2,4-Trichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,2-Dibromo-3-Chloropropane	0.00050	U H *-	0.0011	0.00050	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,2-Dibromoethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,2-Dichlorobenzene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,2-Dichloroethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,2-Dichloropropane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,3-Dichlorobenzene	0.00040	U H	0.0011	0.00040	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
1,4-Dichlorobenzene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
2-Butanone (MEK)	0.00040	U H	0.0055	0.00040	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
2-Hexanone	0.0019	U H	0.0055	0.0019	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
4-Methyl-2-pentanone (MIBK)	0.0017	U H	0.0055	0.0017	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Acetone	0.0063	U H	0.0066	0.0063	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Benzene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Bromodichloromethane	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Bromoform	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Bromomethane	0.0011	U H *+	0.0022	0.0011	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Carbon disulfide	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Carbon tetrachloride	0.00042	U H	0.0011	0.00042	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Chlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Chlorobromomethane	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Chloroethane	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Chloroform	**0.0013**	**H**	0.0011	0.0011	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Chloromethane	0.00048	U H	0.0011	0.00048	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
cis-1,2-Dichloroethene	0.00039	U H	0.0011	0.00039	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
cis-1,3-Dichloropropene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Cyclohexane	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Dibromochloromethane	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Dichlorodifluoromethane	0.00037	U H	0.0011	0.00037	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Ethylbenzene	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Isopropylbenzene	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Methyl acetate	0.0047	U H	0.0055	0.0047	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Methyl tert-butyl ether	0.00056	U H	0.0011	0.00056	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Methylcyclohexane	0.00055	U H	0.0011	0.00055	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Methylene Chloride	0.0013	U H	0.0022	0.0013	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1

Client Sample ID: 2B-01-TS
Date Collected: 01/24/25 12:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-27
Matrix: Solid
Percent Solids: 97.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
o-Xylene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Styrene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Tetrachloroethene	0.00033	U H	0.0011	0.00033	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Toluene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
trans-1,2-Dichloroethene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
trans-1,3-Dichloropropene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Trichloroethene	0.00035	U H	0.0011	0.00035	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Trichlorofluoromethane	0.00044	U H	0.0011	0.00044	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1
Vinyl chloride	0.00060	U H	0.0011	0.00060	mg/Kg	☼	01/25/25 11:25	03/06/25 15:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:25*	*03/06/25 15:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/25/25 11:25*	*03/06/25 15:44*	*1*
4-Bromofluorobenzene	*99*		*71 - 128*	*01/25/25 11:25*	*03/06/25 15:44*	*1*
Dibromofluoromethane (Surr)	*111*		*50 - 150*	*01/25/25 11:25*	*03/06/25 15:44*	*1*
Toluene-d8 (Surr)	*110*		*71 - 126*	*01/25/25 11:25*	*03/06/25 15:44*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
1,2,4-Trichlorobenzene	0.0087	U H	0.034	0.0087	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
1,2-Dichlorobenzene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2,4,5-Trichlorophenol	0.035	U H	0.34	0.035	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2,4,6-Trichlorophenol	0.044	U H	0.14	0.044	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2,4-Dimethylphenol	0.041	U H	0.34	0.041	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2,4-Dinitrophenol	0.17	U H	0.27	0.17	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2,4-Dinitrotoluene	0.037	U H	0.069	0.037	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2,6-Dinitrotoluene	0.025	U H	0.069	0.025	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2-Methylnaphthalene	0.0095	U H	0.34	0.0095	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
3,3'-Dichlorobenzidine	0.051	U H	0.14	0.051	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
3-Nitroaniline	0.081	U H	0.34	0.081	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
4-Bromophenyl phenyl ether	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
4-Chloroaniline	0.060	U H	0.34	0.060	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2B-01-TS
Date Collected: 01/24/25 12:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-27
Matrix: Solid
Percent Solids: 97.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.055	U H	0.69	0.055	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Acenaphthene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Acenaphthylene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Atrazine	0.020	U H	0.14	0.020	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Benzaldehyde	0.056	U H	0.34	0.056	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Benzidine	0.071	U H *+	0.34	0.071	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Benzo[a]anthracene	0.026	U H	0.034	0.026	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Benzo[a]pyrene	0.0091	U H	0.034	0.0091	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Benzo[b]fluoranthene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Benzo[g,h,i]perylene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Benzo[k]fluoranthene	0.0067	U H	0.034	0.0067	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
bis (2-chloroisopropyl) ether	0.020	U H	0.34	0.020	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Bis(2-chloroethoxy)methane	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Caprolactam	0.053	U H	0.34	0.053	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Dimethyl phthalate	0.077	U H	0.34	0.077	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Fluorene	0.0099	U H	0.34	0.0099	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Hexachlorobutadiene	0.0072	U H	0.069	0.0072	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Isophorone	0.098	U H	0.14	0.098	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Naphthalene	**0.010**	**J H**	0.34	0.0059	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
N-Nitrosodimethylamine	0.031	U H	0.34	0.031	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
N-Nitrosodi-n-propylamine	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Pentachlorophenol	0.070	U H	0.27	0.070	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Phenanthrene	**0.025**	**J H**	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Phenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1
Pyrene	0.0084	U H	0.34	0.0084	mg/Kg	☼	03/04/25 08:46	03/05/25 00:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*0.36*	*H J*	*mg/Kg*	☼	*2.35*	*N/A*	*03/04/25 08:46*	*03/05/25 00:32*	*1*
Tetradecanoic acid	*0.27*	*H J N*	*mg/Kg*	☼	*7.41*	*544-63-8*	*03/04/25 08:46*	*03/05/25 00:32*	*1*
Unknown	*0.33*	*H J*	*mg/Kg*	☼	*8.04*	*N/A*	*03/04/25 08:46*	*03/05/25 00:32*	*1*

Client Sample ID: 2B-01-TS

Date Collected: 01/24/25 12:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-27

Matrix: Solid
Percent Solids: 97.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	0.73	H J N	mg/Kg	☼	9.06	1740-19-8	03/04/25 08:46	03/05/25 00:32	1
3-Eicosene, (E)-	0.44	H J N	mg/Kg	☼	9.15	74685-33-9	03/04/25 08:46	03/05/25 00:32	1
1-Docosene	0.82	H J N	mg/Kg	☼	9.80	1599-67-3	03/04/25 08:46	03/05/25 00:32	1
Tetracosanoic acid	0.31	H J N	mg/Kg	☼	10.03	557-59-5	03/04/25 08:46	03/05/25 00:32	1
Unknown	1.1	H J	mg/Kg	☼	11.88	N/A	03/04/25 08:46	03/05/25 00:32	1
Unknown	0.90	H J	mg/Kg	☼	12.11	N/A	03/04/25 08:46	03/05/25 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		24 - 137	03/04/25 08:46	03/05/25 00:32	1
2-Fluorobiphenyl	62		38 - 128	03/04/25 08:46	03/05/25 00:32	1
2-Fluorophenol (Surr)	57		31 - 133	03/04/25 08:46	03/05/25 00:32	1
Nitrobenzene-d5 (Surr)	61		31 - 120	03/04/25 08:46	03/05/25 00:32	1
Phenol-d5 (Surr)	61		35 - 132	03/04/25 08:46	03/05/25 00:32	1
Terphenyl-d14 (Surr)	64		44 - 147	03/04/25 08:46	03/05/25 00:32	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0069	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
4,4'-DDE	0.00081	U H	0.0069	0.00081	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
4,4'-DDT	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Aldrin	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
alpha-BHC	0.00070	U H	0.0021	0.00070	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
beta-BHC	0.00077	U H	0.0021	0.00077	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
delta-BHC	0.00042	U H	0.0021	0.00042	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Dieldrin	0.00089	U H	0.0021	0.00089	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Endosulfan I	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Endosulfan II	0.0018	U H	0.0069	0.0018	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Endosulfan sulfate	0.00086	U H	0.0069	0.00086	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Endrin	0.00099	U H	0.0069	0.00099	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Endrin aldehyde	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Endrin ketone	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
gamma-BHC (Lindane)	0.00064	U H	0.0021	0.00064	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Heptachlor	0.00081	U H	0.0069	0.00081	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Heptachlor epoxide	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Methoxychlor	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Toxaphene	0.025	U H	0.069	0.025	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1
Chlordane (n.o.s.)	0.017	U H	0.069	0.017	mg/Kg	☼	03/05/25 17:24	03/06/25 09:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		17 - 150	03/05/25 17:24	03/06/25 09:00	1
DCB Decachlorobiphenyl	77		17 - 150	03/05/25 17:24	03/06/25 09:00	1
Tetrachloro-m-xylene	165	S1+	21 - 150	03/05/25 17:24	03/06/25 09:00	1
Tetrachloro-m-xylene	124		21 - 150	03/05/25 17:24	03/06/25 09:00	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1
Aroclor 1221	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1
Aroclor 1232	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1

Client Sample ID: 2B-01-TS

Date Collected: 01/24/25 12:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-27

Matrix: Solid
Percent Solids: 97.1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1
Aroclor 1248	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1
Aroclor 1254	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1
Aroclor 1260	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1
Aroclor-1262	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1
Aroclor 1268	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1
Polychlorinated biphenyls, Total	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:16*	*1*
DCB Decachlorobiphenyl	*84*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:16*	*1*
Tetrachloro-m-xylene	*110*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:16*	*1*
Tetrachloro-m-xylene	*147*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:16*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:18	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:18	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:18	1
C21-C40 Aliphatics	7.2	U H	7.2	7.2	mg/Kg	☼	03/06/25 22:12	03/07/25 12:18	1
C16-C21 Aromatics	5.1	U H	5.1	5.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:02	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:02	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:02	1
C21-C36 Aromatic	8.2	U H	8.2	8.2	mg/Kg	☼	03/06/25 22:12	03/07/25 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*59*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:02*	*1*
2-Fluorobiphenyl	*78*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:02*	*1*
2-Bromonaphthalene	*68*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:02*	*1*
1-Chlorooctadecane	*45*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:18*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**766**		18.7	5.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Arsenic	**0.56**	**J**	0.94	0.096	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Barium	**5.4**		1.9	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Calcium	**119**		93.6	38.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Chromium	**1.6**	**J**	1.9	0.85	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Copper	**3.0**		1.9	0.34	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Iron	**642**		56.2	18.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Lead	**13.8**		0.56	0.19	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1

Client Sample ID: 2B-01-TS

Date Collected: 01/24/25 12:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-27

Matrix: Solid
Percent Solids: 97.1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	32.0	J	93.6	9.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Manganese	2.2	J	3.7	0.38	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Nickel	0.54	J	1.9	0.44	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Potassium	36.3	J	93.6	15.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Selenium	0.16	J	1.2	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Silver	0.083	U	0.37	0.083	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Sodium	42.8	U	93.6	42.8	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Vanadium	3.2		1.9	0.19	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1
Zinc	2.9	U	7.5	2.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	U H	0.017	0.0081	mg/Kg	☼	03/07/25 01:02	03/07/25 05:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	J H	0.25	0.13	mg/Kg	☼	03/07/25 18:23	03/09/25 16:16	1
Percent Moisture (EPA Moisture)	2.9		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	97.1		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2B-01-CS

Date Collected: 01/24/25 13:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-28

Matrix: Solid
Percent Solids: 96.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U H	0.00097	0.00023	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,1,2,2-Tetrachloroethane	0.00021	U H	0.00097	0.00021	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U H	0.00097	0.00029	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,1,2-Trichloroethane	0.00017	U H	0.00097	0.00017	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,1-Dichloroethane	0.00020	U H	0.00097	0.00020	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,1-Dichloroethene	0.00022	U H	0.00097	0.00022	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,2,3-Trichlorobenzene	0.00018	U H	0.00097	0.00018	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,2,4-Trichlorobenzene	0.00035	U H	0.00097	0.00035	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,2-Dibromo-3-Chloropropane	0.00045	U H *-	0.00097	0.00045	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,2-Dibromoethane	0.00017	U H	0.00097	0.00017	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,2-Dichlorobenzene	0.00035	U H	0.00097	0.00035	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,2-Dichloroethane	0.00029	U H	0.00097	0.00029	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,2-Dichloropropane	0.00041	U H	0.00097	0.00041	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,3-Dichlorobenzene	0.00035	U H	0.00097	0.00035	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
1,4-Dichlorobenzene	0.00022	U H	0.00097	0.00022	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
2-Butanone (MEK)	0.00036	U H	0.0048	0.00036	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
2-Hexanone	0.0017	U H	0.0048	0.0017	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
4-Methyl-2-pentanone (MIBK)	0.0015	U H	0.0048	0.0015	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Acetone	0.0055	U H	0.0058	0.0055	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Benzene	0.00025	U H	0.00097	0.00025	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Bromodichloromethane	0.00025	U H	0.00097	0.00025	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Bromoform	0.00041	U H	0.00097	0.00041	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Bromomethane	0.00097	U H *+	0.0019	0.00097	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1

Client Sample ID: 2B-01-CS
Date Collected: 01/24/25 13:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-28
Matrix: Solid
Percent Solids: 96.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.00026	U H	0.00097	0.00026	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Carbon tetrachloride	0.00037	U H	0.00097	0.00037	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Chlorobenzene	0.00017	U H	0.00097	0.00017	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Chlorobromomethane	0.00027	U H	0.00097	0.00027	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Chloroethane	0.00051	U H	0.00097	0.00051	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Chloroform	0.00094	U H	0.00097	0.00094	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Chloromethane	0.00042	U H	0.00097	0.00042	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
cis-1,2-Dichloroethene	0.00035	U H	0.00097	0.00035	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
cis-1,3-Dichloropropene	0.00026	U H	0.00097	0.00026	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Cyclohexane	0.00021	U H	0.00097	0.00021	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Dibromochloromethane	0.00019	U H	0.00097	0.00019	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Dichlorodifluoromethane	0.00033	U H	0.00097	0.00033	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Ethylbenzene	0.00019	U H	0.00097	0.00019	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Isopropylbenzene	0.00028	U H	0.00097	0.00028	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Methyl acetate	0.0042	U H	0.0048	0.0042	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Methyl tert-butyl ether	0.00050	U H	0.00097	0.00050	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Methylcyclohexane	0.00048	U H	0.00097	0.00048	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Methylene Chloride	0.0011	U H	0.0019	0.0011	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
m-Xylene & p-Xylene	0.00017	U H	0.00097	0.00017	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
o-Xylene	0.00019	U H	0.00097	0.00019	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Styrene	0.00027	U H	0.00097	0.00027	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Tetrachloroethene	0.00030	U H	0.00097	0.00030	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Toluene	0.00023	U H	0.00097	0.00023	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
trans-1,2-Dichloroethene	0.00024	U H	0.00097	0.00024	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
trans-1,3-Dichloropropene	0.00026	U H	0.00097	0.00026	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Trichloroethene	0.00031	U H	0.00097	0.00031	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Trichlorofluoromethane	0.00039	U H	0.00097	0.00039	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1
Vinyl chloride	0.00053	U H	0.00097	0.00053	mg/Kg	☼	01/25/25 11:26	03/06/25 16:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:26*	*03/06/25 16:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*	*01/25/25 11:26*	*03/06/25 16:07*	*1*
4-Bromofluorobenzene	*95*		*71 - 128*	*01/25/25 11:26*	*03/06/25 16:07*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*01/25/25 11:26*	*03/06/25 16:07*	*1*
Toluene-d8 (Surr)	*107*		*71 - 126*	*01/25/25 11:26*	*03/06/25 16:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
1,2,4-Trichlorobenzene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
1,2-Dichlorobenzene	0.0058	U H	0.34	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
1,2-Diphenylhydrazine	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
1,3-Dichlorobenzene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
1,4-Dichlorobenzene	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2,4,5-Trichlorophenol	0.035	U H	0.34	0.035	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2,4,6-Trichlorophenol	0.044	U H	0.14	0.044	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2,4-Dichlorophenol	0.022	U H	0.14	0.022	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2,4-Dimethylphenol	0.041	U H	0.34	0.041	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2B-01-CS
Date Collected: 01/24/25 13:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-28
Matrix: Solid
Percent Solids: 96.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	0.17	U H	0.27	0.17	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2,4-Dinitrotoluene	0.037	U H	0.069	0.037	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2,6-Dinitrotoluene	0.025	U H	0.069	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2-Chloronaphthalene	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2-Chlorophenol	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2-Methylnaphthalene	0.0096	U H	0.34	0.0096	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2-Methylphenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2-Nitroaniline	0.026	U H	0.34	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
2-Nitrophenol	0.034	U H	0.34	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
3,3'-Dichlorobenzidine	0.052	U H	0.14	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
3-Nitroaniline	0.081	U H	0.34	0.081	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
4-Bromophenyl phenyl ether	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
4-Chloro-3-methylphenol	0.019	U H	0.34	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
4-Chloroaniline	0.061	U H	0.34	0.061	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
4-Chlorophenyl phenyl ether	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
4-Methylphenol	0.021	U H	0.34	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
4-Nitroaniline	0.039	U H	0.34	0.039	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
4-Nitrophenol	0.056	U H	0.69	0.056	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Acenaphthene	0.0097	U H	0.34	0.0097	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Acenaphthylene	0.0098	U H	0.34	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Acetophenone	0.017	U H	0.34	0.017	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Anthracene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Atrazine	0.020	U H	0.14	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Benzaldehyde	0.057	U H	0.34	0.057	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Benzidine	0.072	U H *+	0.34	0.072	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Benzo[a]anthracene	0.026	U H	0.034	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Benzo[a]pyrene	0.0091	U H	0.034	0.0091	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Benzo[b]fluoranthene	0.0088	U H	0.034	0.0088	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Benzo[g,h,i]perylene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Benzo[k]fluoranthene	0.0067	U H	0.034	0.0067	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
bis (2-chloroisopropyl) ether	0.020	U H	0.34	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Bis(2-chloroethoxy)methane	0.027	U H	0.34	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Bis(2-chloroethyl)ether	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Butyl benzyl phthalate	0.016	U H	0.34	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Caprolactam	0.053	U H	0.34	0.053	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Carbazole	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Chrysene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Dibenz(a,h)anthracene	0.015	U H	0.034	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Dibenzofuran	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Diethyl phthalate	0.011	U H	0.34	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Dimethyl phthalate	0.078	U H	0.34	0.078	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Di-n-butyl phthalate	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Di-n-octyl phthalate	0.018	U H	0.34	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Fluoranthene	0.012	U H	0.34	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Fluorene	0.010	U H	0.34	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Hexachlorobenzene	0.016	U H	0.034	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Hexachlorobutadiene	0.0073	U H	0.069	0.0073	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1

Client Sample ID: 2B-01-CS
Date Collected: 01/24/25 13:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-28
Matrix: Solid
Percent Solids: 96.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	0.030	U H *+	0.34	0.030	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Hexachloroethane	0.012	U H	0.034	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.034	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Isophorone	0.099	U H	0.14	0.099	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Naphthalene	0.0059	U H	0.34	0.0059	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Nitrobenzene	0.019	U H	0.034	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
N-Nitrosodimethylamine	0.032	U H	0.34	0.032	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
N-Nitrosodi-n-propylamine	0.025	U H	0.034	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
N-Nitrosodiphenylamine	0.028	U H	0.34	0.028	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Pentachlorophenol	0.070	U H	0.27	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Phenanthrene	0.014	U H	0.34	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Phenol	0.013	U H	0.34	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1
Pyrene	0.0085	U H	0.34	0.0085	mg/Kg	☼	03/04/25 08:46	03/04/25 17:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 17:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*24 - 137*	*03/04/25 08:46*	*03/04/25 17:52*	*1*
2-Fluorobiphenyl	*80*		*38 - 128*	*03/04/25 08:46*	*03/04/25 17:52*	*1*
2-Fluorophenol (Surr)	*84*		*31 - 133*	*03/04/25 08:46*	*03/04/25 17:52*	*1*
Nitrobenzene-d5 (Surr)	*79*		*31 - 120*	*03/04/25 08:46*	*03/04/25 17:52*	*1*
Phenol-d5 (Surr)	*86*		*35 - 132*	*03/04/25 08:46*	*03/04/25 17:52*	*1*
Terphenyl-d14 (Surr)	*76*		*44 - 147*	*03/04/25 08:46*	*03/04/25 17:52*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U H	0.0069	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
4,4'-DDE	0.00082	U H	0.0069	0.00082	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
4,4'-DDT	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Aldrin	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
alpha-BHC	0.00070	U H	0.0021	0.00070	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
beta-BHC	0.00078	U H	0.0021	0.00078	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
delta-BHC	0.00042	U H	0.0021	0.00042	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Dieldrin	0.00090	U H	0.0021	0.00090	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Endosulfan I	0.0011	U H	0.0069	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Endosulfan II	0.0018	U H	0.0069	0.0018	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Endosulfan sulfate	0.00087	U H	0.0069	0.00087	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Endrin	0.00099	U H	0.0069	0.00099	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Endrin aldehyde	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Endrin ketone	0.0013	U H	0.0069	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
gamma-BHC (Lindane)	0.00064	U H	0.0021	0.00064	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Heptachlor	0.00082	U H	0.0069	0.00082	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Heptachlor epoxide	0.0010	U H	0.0069	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Methoxychlor	0.0016	U H	0.0069	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Toxaphene	0.025	U H	0.069	0.025	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1
Chlordane (n.o.s.)	0.017	U H	0.069	0.017	mg/Kg	☼	03/05/25 17:24	03/06/25 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*17 - 150*	*03/05/25 17:24*	*03/06/25 09:12*	*1*

Client Sample ID: 2B-01-CS
Date Collected: 01/24/25 13:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-28
Matrix: Solid
Percent Solids: 96.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*17 - 150*	*03/05/25 17:24*	*03/06/25 09:12*	*1*
Tetrachloro-m-xylene	*118*		*21 - 150*	*03/05/25 17:24*	*03/06/25 09:12*	*1*
Tetrachloro-m-xylene	*114*		*21 - 150*	*03/05/25 17:24*	*03/06/25 09:12*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Aroclor 1221	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Aroclor 1232	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Aroclor 1242	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Aroclor 1248	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Aroclor 1254	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Aroclor 1260	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Aroclor-1262	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Aroclor 1268	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1
Polychlorinated biphenyls, Total	0.018	U	0.069	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:33*	*1*
DCB Decachlorobiphenyl	*69*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:33*	*1*
Tetrachloro-m-xylene	*92*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:33*	*1*
Tetrachloro-m-xylene	*121*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:33*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:34	1
C9-C12 Aliphatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:34	1
C16-C21 Aliphatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:34	1
C21-C40 Aliphatics	7.2	U H	7.2	7.2	mg/Kg	☼	03/06/25 22:12	03/07/25 12:34	1
C16-C21 Aromatics	5.2	U H	5.2	5.2	mg/Kg	☼	03/06/25 22:12	03/07/25 12:18	1
C10-C12 Aromatics	2.1	U H	2.1	2.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:18	1
C12-C16 Aromatics	3.1	U H	3.1	3.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:18	1
C21-C36 Aromatic	8.3	U H	8.3	8.3	mg/Kg	☼	03/06/25 22:12	03/07/25 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:18*	*1*
2-Fluorobiphenyl	*84*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:18*	*1*
2-Bromonaphthalene	*74*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:18*	*1*
1-Chlorooctadecane	*49*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:34*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7510**		19.0	5.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Antimony	0.14	U	0.95	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1

Client Sample ID: 2B-01-CS

Date Collected: 01/24/25 13:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-28

Matrix: Solid
Percent Solids: 96.4

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.2**		0.95	0.098	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Barium	**3.6**		1.9	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Cadmium	0.11	U	0.95	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Calcium	38.7	U	95.2	38.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Chromium	**8.1**		1.9	0.86	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Cobalt	**0.20**	**J**	1.9	0.14	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Copper	**2.9**		1.9	0.35	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Iron	**3890**		57.1	19.2	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Lead	**1.8**		0.57	0.19	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Magnesium	**56.4**	**J**	95.2	9.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Manganese	**2.2**	**J**	3.8	0.38	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Nickel	**1.7**	**J**	1.9	0.45	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Potassium	**71.4**	**J**	95.2	15.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Selenium	**0.15**	**J**	1.2	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Silver	0.085	U	0.38	0.085	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Sodium	43.5	U	95.2	43.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Vanadium	**9.5**		1.9	0.20	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1
Zinc	2.9	U	7.6	2.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**	**H**	0.016	0.0074	mg/Kg	☼	03/07/25 01:02	03/07/25 05:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U H	0.20	0.11	mg/Kg	☼	03/07/25 18:23	03/09/25 16:17	1
Percent Moisture (EPA Moisture)	**3.6**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**96.4**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2A-05-TS

Date Collected: 01/24/25 13:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-29

Matrix: Solid
Percent Solids: 99.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00022	U	0.00096	0.00022	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00096	0.00021	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U	0.00096	0.00029	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,1,2-Trichloroethane	0.00017	U	0.00096	0.00017	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,1-Dichloroethane	0.00020	U	0.00096	0.00020	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,1-Dichloroethene	0.00022	U	0.00096	0.00022	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,2,3-Trichlorobenzene	0.00017	U	0.00096	0.00017	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,2,4-Trichlorobenzene	0.00035	U	0.00096	0.00035	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,2-Dibromo-3-Chloropropane	0.00044	U *+	0.00096	0.00044	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,2-Dibromoethane	0.00017	U	0.00096	0.00017	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,2-Dichlorobenzene	0.00035	U	0.00096	0.00035	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,2-Dichloroethane	0.00029	U	0.00096	0.00029	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,2-Dichloropropane	0.00041	U	0.00096	0.00041	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-05-TS
Date Collected: 01/24/25 13:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-29
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.00035	U	0.00096	0.00035	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
1,4-Dichlorobenzene	0.00022	U	0.00096	0.00022	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
2-Butanone (MEK)	0.00035	U	0.0048	0.00035	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
2-Hexanone	0.0017	U *-	0.0048	0.0017	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
4-Methyl-2-pentanone (MIBK)	0.0015	U *-	0.0048	0.0015	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Acetone	**0.035**		0.0058	0.0055	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Benzene	0.00025	U	0.00096	0.00025	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Bromodichloromethane	0.00025	U	0.00096	0.00025	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Bromoform	0.00041	U	0.00096	0.00041	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Bromomethane	0.00096	U *+	0.0019	0.00096	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Carbon disulfide	0.00026	U	0.00096	0.00026	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Carbon tetrachloride	0.00037	U	0.00096	0.00037	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Chlorobenzene	0.00017	U	0.00096	0.00017	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Chlorobromomethane	0.00027	U *+	0.00096	0.00027	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Chloroethane	0.00050	U	0.00096	0.00050	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Chloroform	0.00094	U	0.00096	0.00094	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Chloromethane	0.00042	U	0.00096	0.00042	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
cis-1,2-Dichloroethene	0.00035	U	0.00096	0.00035	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
cis-1,3-Dichloropropene	0.00026	U	0.00096	0.00026	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Cyclohexane	0.00021	U	0.00096	0.00021	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Dibromochloromethane	0.00019	U	0.00096	0.00019	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Dichlorodifluoromethane	0.00033	U	0.00096	0.00033	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Ethylbenzene	0.00019	U	0.00096	0.00019	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Isopropylbenzene	0.00027	U	0.00096	0.00027	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Methyl acetate	0.0041	U *+	0.0048	0.0041	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Methyl tert-butyl ether	0.00049	U	0.00096	0.00049	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Methylcyclohexane	0.00048	U	0.00096	0.00048	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Methylene Chloride	0.0011	U	0.0019	0.0011	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
m-Xylene & p-Xylene	**0.00022**	**J**	0.00096	0.00017	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
o-Xylene	0.00019	U	0.00096	0.00019	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Styrene	0.00027	U	0.00096	0.00027	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Tetrachloroethene	0.00029	U	0.00096	0.00029	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Toluene	0.00023	U	0.00096	0.00023	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
trans-1,2-Dichloroethene	0.00024	U	0.00096	0.00024	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
trans-1,3-Dichloropropene	0.00026	U	0.00096	0.00026	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Trichloroethene	0.00031	U	0.00096	0.00031	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Trichlorofluoromethane	0.00039	U	0.00096	0.00039	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1
Vinyl chloride	0.00053	U	0.00096	0.00053	mg/Kg	☼	01/25/25 11:27	01/30/25 01:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:27*	*01/30/25 01:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/25/25 11:27*	*01/30/25 01:42*	*1*
4-Bromofluorobenzene	*86*		*71 - 128*	*01/25/25 11:27*	*01/30/25 01:42*	*1*
Dibromofluoromethane (Surr)	*118*		*50 - 150*	*01/25/25 11:27*	*01/30/25 01:42*	*1*
Toluene-d8 (Surr)	*89*		*71 - 126*	*01/25/25 11:27*	*01/30/25 01:42*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-05-TS
Date Collected: 01/24/25 13:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-29
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1

Client Sample ID: 2A-05-TS
Date Collected: 01/24/25 13:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-29
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/29/25 01:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.32*	*A J*	*mg/Kg*	☼	*2.81*	*N/A*	*01/28/25 10:34*	*01/29/25 01:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*24 - 137*	*01/28/25 10:34*	*01/29/25 01:55*	*1*
2-Fluorobiphenyl	*68*		*38 - 128*	*01/28/25 10:34*	*01/29/25 01:55*	*1*
2-Fluorophenol (Surr)	*57*		*31 - 133*	*01/28/25 10:34*	*01/29/25 01:55*	*1*
Nitrobenzene-d5 (Surr)	*63*		*31 - 120*	*01/28/25 10:34*	*01/29/25 01:55*	*1*
Phenol-d5 (Surr)	*63*		*35 - 132*	*01/28/25 10:34*	*01/29/25 01:55*	*1*
Terphenyl-d14 (Surr)	*71*		*44 - 147*	*01/28/25 10:34*	*01/29/25 01:55*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Endrin	0.00097	U	0.0067	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1

Client Sample ID: 2A-05-TS
Date Collected: 01/24/25 13:50
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Lab Sample ID: 460-319275-29
Matrix: Solid
Percent Solids: 99.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*113*		*17 - 150*	*01/28/25 06:14*	*01/28/25 18:47*	*1*
DCB Decachlorobiphenyl	*107*		*17 - 150*	*01/28/25 06:14*	*01/28/25 18:47*	*1*
Tetrachloro-m-xylene	*92*		*21 - 150*	*01/28/25 06:14*	*01/28/25 18:47*	*1*
Tetrachloro-m-xylene	*88*		*21 - 150*	*01/28/25 06:14*	*01/28/25 18:47*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:18*	*1*
DCB Decachlorobiphenyl	*106*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:18*	*1*
Tetrachloro-m-xylene	*96*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:18*	*1*
Tetrachloro-m-xylene	*96*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:18*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:11	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:11	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:11	1
C21-C40 Aliphatics	7.0	U *1	7.0	7.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:11	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:11	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:11	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:11	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 20:11	1

Client Sample ID: 2A-05-TS

Lab Sample ID: 460-319275-29

Date Collected: 01/24/25 13:50
Date Received: 01/24/25 17:40

Matrix: Solid
Percent Solids: 99.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:11*	*1*
2-Fluorobiphenyl	*87*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:11*	*1*
2-Bromonaphthalene	*82*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:11*	*1*
1-Chlorooctadecane	*83*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:11*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1160**		18.8	5.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Arsenic	**0.59**	**J**	0.94	0.097	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Barium	**1.9**		1.9	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Calcium	38.3	U	94.1	38.3	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Chromium	**2.1**		1.9	0.85	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Cobalt	0.14	U	1.9	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Copper	**1.2**	**J**	1.9	0.35	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Iron	**1870**		56.5	19.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Lead	**4.6**		0.56	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Magnesium	**33.6**	**J**	94.1	9.6	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Manganese	**4.5**		3.8	0.38	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Nickel	0.44	U	1.9	0.44	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Potassium	**27.3**	**J**	94.1	15.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Silver	0.084	U	0.38	0.084	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Sodium	43.0	U	94.1	43.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Vanadium	**5.0**		1.9	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1
Zinc	2.9	U	7.5	2.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	U	0.016	0.0077	mg/Kg	☼	01/29/25 00:52	01/29/25 04:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/29/25 18:15	01/29/25 21:45	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.3**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2A-05-CS-4

Lab Sample ID: 460-319275-30

Date Collected: 01/24/25 14:00
Date Received: 01/24/25 17:40

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00030	U	0.0013	0.00030	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,1,2,2-Tetrachloroethane	0.00028	U	0.0013	0.00028	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00039	U	0.0013	0.00039	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,1,2-Trichloroethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,1-Dichloroethane	0.00027	U	0.0013	0.00027	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1

Client Sample ID: 2A-05-CS-4
Date Collected: 01/24/25 14:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-30
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,2,3-Trichlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,2,4-Trichlorobenzene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,2-Dibromo-3-Chloropropane	0.00059	U *+	0.0013	0.00059	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,2-Dibromoethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,2-Dichlorobenzene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,2-Dichloroethane	0.00038	U	0.0013	0.00038	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,2-Dichloropropane	0.00054	U	0.0013	0.00054	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,3-Dichlorobenzene	0.00047	U	0.0013	0.00047	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
1,4-Dichlorobenzene	0.00029	U	0.0013	0.00029	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
2-Butanone (MEK)	0.00047	U	0.0064	0.00047	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
2-Hexanone	0.0022	U *-	0.0064	0.0022	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
4-Methyl-2-pentanone (MIBK)	0.0020	U *-	0.0064	0.0020	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Acetone	**0.068**		0.0077	0.0074	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Benzene	0.00033	U	0.0013	0.00033	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Bromodichloromethane	0.00033	U	0.0013	0.00033	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Bromoform	0.00055	U	0.0013	0.00055	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Bromomethane	0.0013	U *+	0.0026	0.0013	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Carbon disulfide	0.00034	U	0.0013	0.00034	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Carbon tetrachloride	0.00050	U	0.0013	0.00050	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Chlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Chlorobromomethane	0.00036	U *+	0.0013	0.00036	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Chloroethane	0.00067	U	0.0013	0.00067	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Chloroform	0.0013	U	0.0013	0.0013	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Chloromethane	0.00056	U	0.0013	0.00056	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
cis-1,2-Dichloroethene	0.00046	U	0.0013	0.00046	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
cis-1,3-Dichloropropene	0.00035	U	0.0013	0.00035	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Cyclohexane	0.00028	U	0.0013	0.00028	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Dibromochloromethane	0.00025	U	0.0013	0.00025	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Dichlorodifluoromethane	0.00044	U	0.0013	0.00044	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Ethylbenzene	0.00026	U	0.0013	0.00026	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Isopropylbenzene	0.00037	U	0.0013	0.00037	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Methyl acetate	0.0055	U *+	0.0064	0.0055	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Methyl tert-butyl ether	0.00066	U	0.0013	0.00066	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Methylcyclohexane	0.00064	U	0.0013	0.00064	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Methylene Chloride	0.0015	U	0.0026	0.0015	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
m-Xylene & p-Xylene	0.00022	U	0.0013	0.00022	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
o-Xylene	0.00025	U	0.0013	0.00025	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Styrene	0.00036	U	0.0013	0.00036	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Tetrachloroethene	0.00039	U	0.0013	0.00039	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Toluene	0.00030	U	0.0013	0.00030	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
trans-1,2-Dichloroethene	0.00032	U	0.0013	0.00032	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
trans-1,3-Dichloropropene	0.00034	U	0.0013	0.00034	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Trichloroethene	0.00041	U	0.0013	0.00041	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Trichlorofluoromethane	0.00052	U	0.0013	0.00052	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1
Vinyl chloride	0.00070	U	0.0013	0.00070	mg/Kg	☼	01/25/25 11:27	01/30/25 02:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:27*	*01/30/25 02:06*	*1*

Client Sample ID: 2A-05-CS-4

Date Collected: 01/24/25 14:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-30

Matrix: Solid
Percent Solids: 99.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/25/25 11:27*	*01/30/25 02:06*	*1*
4-Bromofluorobenzene	*86*		*71 - 128*	*01/25/25 11:27*	*01/30/25 02:06*	*1*
Dibromofluoromethane (Surr)	*119*		*50 - 150*	*01/25/25 11:27*	*01/30/25 02:06*	*1*
Toluene-d8 (Surr)	*88*		*71 - 126*	*01/25/25 11:27*	*01/30/25 02:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
4-Nitrophenol	0.054	U	0.68	0.054	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1

Client Sample ID: 2A-05-CS-4

Date Collected: 01/24/25 14:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-30

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/28/25 21:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*01/28/25 10:34*	*01/28/25 21:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*24 - 137*	*01/28/25 10:34*	*01/28/25 21:27*	*1*
2-Fluorobiphenyl	*77*		*38 - 128*	*01/28/25 10:34*	*01/28/25 21:27*	*1*
2-Fluorophenol (Surr)	*66*		*31 - 133*	*01/28/25 10:34*	*01/28/25 21:27*	*1*
Nitrobenzene-d5 (Surr)	*73*		*31 - 120*	*01/28/25 10:34*	*01/28/25 21:27*	*1*
Phenol-d5 (Surr)	*73*		*35 - 132*	*01/28/25 10:34*	*01/28/25 21:27*	*1*
Terphenyl-d14 (Surr)	*83*		*44 - 147*	*01/28/25 10:34*	*01/28/25 21:27*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0068	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1

Client Sample ID: 2A-05-CS-4

Date Collected: 01/24/25 14:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-30

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:00*	*1*
DCB Decachlorobiphenyl	*96*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:00*	*1*
Tetrachloro-m-xylene	*89*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:00*	*1*
Tetrachloro-m-xylene	*87*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:00*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:35*	*1*
DCB Decachlorobiphenyl	*89*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:35*	*1*
Tetrachloro-m-xylene	*82*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:35*	*1*
Tetrachloro-m-xylene	*82*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:35*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:27	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:27	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:27	1
C21-C40 Aliphatics	7.1	U *1	7.1	7.1	mg/Kg	☼	01/29/25 22:14	01/30/25 20:27	1

Client Sample ID: 2A-05-CS-4
Date Collected: 01/24/25 14:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-30
Matrix: Solid
Percent Solids: 99.1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:27	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:27	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:27	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:27*	*1*
2-Fluorobiphenyl	*98*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:27*	*1*
2-Bromonaphthalene	*94*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:27*	*1*
1-Chlorooctadecane	*79*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:27*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4140**		18.0	4.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Arsenic	**1.1**		0.90	0.093	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Barium	**4.2**		1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Calcium	36.7	U	90.1	36.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Chromium	**6.2**		1.8	0.82	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Cobalt	**0.43**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Copper	**2.2**		1.8	0.33	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Iron	**3660**		54.1	18.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Lead	**3.0**		0.54	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Magnesium	**109**		90.1	9.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Manganese	**11.0**		3.6	0.36	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Nickel	**1.4**	**J**	1.8	0.42	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Potassium	**129**		90.1	14.6	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Sodium	41.2	U	90.1	41.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Vanadium	**7.1**		1.8	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0079	U	0.017	0.0079	mg/Kg	☼	01/29/25 00:52	01/29/25 04:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/29/25 18:15	01/29/25 21:46	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.1**		1.0	1.0	%			01/27/25 07:37	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-05-CS-8
Date Collected: 01/24/25 14:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-31
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,2,4-Trichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,2-Dibromo-3-Chloropropane	0.00049	U *+	0.0011	0.00049	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,2-Dichlorobenzene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,2-Dichloropropane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
2-Butanone (MEK)	0.00039	U	0.0053	0.00039	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
2-Hexanone	0.0018	U *-	0.0053	0.0018	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
4-Methyl-2-pentanone (MIBK)	0.0017	U *-	0.0053	0.0017	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Acetone	**0.031**		0.0064	0.0061	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Benzene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Bromodichloromethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Bromoform	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Bromomethane	0.0011	U *+	0.0021	0.0011	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Carbon disulfide	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Carbon tetrachloride	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Chlorobromomethane	0.00030	U *+	0.0011	0.00030	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Chloroethane	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Chloromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
cis-1,2-Dichloroethene	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Isopropylbenzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Methyl acetate	0.0046	U *+	0.0053	0.0046	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Methyl tert-butyl ether	0.00054	U	0.0011	0.00054	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Methylcyclohexane	0.00053	U	0.0011	0.00053	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Tetrachloroethene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
trans-1,3-Dichloropropene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Trichloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1

Client Sample ID: 2A-05-CS-8
Date Collected: 01/24/25 14:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-31
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1
Vinyl chloride	0.00058	U	0.0011	0.00058	mg/Kg	☼	01/25/25 11:28	01/30/25 02:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:28*	*01/30/25 02:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 138*	*01/25/25 11:28*	*01/30/25 02:29*	*1*
4-Bromofluorobenzene	*85*		*71 - 128*	*01/25/25 11:28*	*01/30/25 02:29*	*1*
Dibromofluoromethane (Surr)	*119*		*50 - 150*	*01/25/25 11:28*	*01/30/25 02:29*	*1*
Toluene-d8 (Surr)	*88*		*71 - 126*	*01/25/25 11:28*	*01/30/25 02:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1

Client Sample ID: 2A-05-CS-8
Date Collected: 01/24/25 14:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-31
Matrix: Solid
Percent Solids: 99.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Di-n-butyl phthalate	**0.020**	**J**	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/28/25 21:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.71*	*A J*	*mg/Kg*	☼	*2.81*	*N/A*	*01/28/25 10:34*	*01/28/25 21:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*24 - 137*	*01/28/25 10:34*	*01/28/25 21:49*	*1*
2-Fluorobiphenyl	*81*		*38 - 128*	*01/28/25 10:34*	*01/28/25 21:49*	*1*
2-Fluorophenol (Surr)	*70*		*31 - 133*	*01/28/25 10:34*	*01/28/25 21:49*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*	*01/28/25 10:34*	*01/28/25 21:49*	*1*
Phenol-d5 (Surr)	*75*		*35 - 132*	*01/28/25 10:34*	*01/28/25 21:49*	*1*
Terphenyl-d14 (Surr)	*92*		*44 - 147*	*01/28/25 10:34*	*01/28/25 21:49*	*1*

Client Sample ID: 2A-05-CS-8

Date Collected: 01/24/25 14:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-31

Matrix: Solid
Percent Solids: 99.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*135*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:13*	*1*
DCB Decachlorobiphenyl	*120*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:13*	*1*
Tetrachloro-m-xylene	*109*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:13*	*1*
Tetrachloro-m-xylene	*106*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:13*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*133*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:51*	*1*
DCB Decachlorobiphenyl	*112*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:51*	*1*
Tetrachloro-m-xylene	*98*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:51*	*1*
Tetrachloro-m-xylene	*98*		*20 - 150*	*01/28/25 06:19*	*01/28/25 19:51*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Client Sample ID: 2A-05-CS-8

Date Collected: 01/24/25 14:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-31

Matrix: Solid
Percent Solids: 99.5

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:43	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:43	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:43	1
C21-C40 Aliphatics	7.0	U *1	7.0	7.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:43	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:43	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:43	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:43	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:43*	*1*
2-Fluorobiphenyl	*102*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:43*	*1*
2-Bromonaphthalene	*98*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:43*	*1*
1-Chlorooctadecane	*91*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:43*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2450**		17.9	4.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Arsenic	**0.70**	**J**	0.90	0.092	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Barium	**2.4**		1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Calcium	36.5	U	89.7	36.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Chromium	**4.1**		1.8	0.81	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Cobalt	**0.20**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Copper	**1.6**	**J**	1.8	0.33	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Iron	**2390**		53.8	18.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Lead	**1.8**		0.54	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Magnesium	**53.9**	**J**	89.7	9.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Manganese	**4.6**		3.6	0.36	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Nickel	**0.76**	**J**	1.8	0.42	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Potassium	**74.2**	**J**	89.7	14.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Sodium	41.0	U	89.7	41.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Vanadium	**4.5**		1.8	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0072	U	0.015	0.0072	mg/Kg	☼	01/29/25 00:52	01/29/25 04:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/29/25 18:15	01/29/25 21:47	1

Client Sample ID: 2A-05-CS-8

Lab Sample ID: 460-319275-31
Date Collected: 01/24/25 14:10
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.5

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.5**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2A-06-CS-4

Lab Sample ID: 460-319275-32
Date Collected: 01/24/25 14:20
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00021	U H	0.00088	0.00021	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,1,2,2-Tetrachloroethane	0.00019	U H	0.00088	0.00019	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00027	U H	0.00088	0.00027	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,1,2-Trichloroethane	0.00016	U H	0.00088	0.00016	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,1-Dichloroethane	0.00018	U H	0.00088	0.00018	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,1-Dichloroethene	0.00020	U H	0.00088	0.00020	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,2,3-Trichlorobenzene	0.00016	U H	0.00088	0.00016	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,2,4-Trichlorobenzene	0.00032	U H	0.00088	0.00032	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,2-Dibromo-3-Chloropropane	0.00041	U H *-	0.00088	0.00041	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,2-Dibromoethane	0.00016	U H	0.00088	0.00016	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,2-Dichlorobenzene	0.00032	U H	0.00088	0.00032	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,2-Dichloroethane	0.00026	U H	0.00088	0.00026	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,2-Dichloropropane	0.00037	U H	0.00088	0.00037	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,3-Dichlorobenzene	0.00032	U H	0.00088	0.00032	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
1,4-Dichlorobenzene	0.00020	U H	0.00088	0.00020	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
2-Butanone (MEK)	0.00032	U H	0.0044	0.00032	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
2-Hexanone	0.0015	U H	0.0044	0.0015	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
4-Methyl-2-pentanone (MIBK)	0.0014	U H	0.0044	0.0014	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Acetone	**0.010**	**H**	0.0053	0.0050	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Benzene	0.00023	U H	0.00088	0.00023	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Bromodichloromethane	0.00023	U H	0.00088	0.00023	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Bromoform	0.00037	U H	0.00088	0.00037	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Bromomethane	0.00088	U H *+	0.0018	0.00088	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Carbon disulfide	0.00023	U H	0.00088	0.00023	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Carbon tetrachloride	0.00034	U H	0.00088	0.00034	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Chlorobenzene	0.00016	U H	0.00088	0.00016	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Chlorobromomethane	0.00025	U H	0.00088	0.00025	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Chloroethane	0.00046	U H	0.00088	0.00046	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Chloroform	**0.0026**	**H**	0.00088	0.00086	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Chloromethane	0.00038	U H	0.00088	0.00038	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
cis-1,2-Dichloroethene	0.00032	U H	0.00088	0.00032	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
cis-1,3-Dichloropropene	0.00024	U H	0.00088	0.00024	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Cyclohexane	0.00019	U H	0.00088	0.00019	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Dibromochloromethane	0.00017	U H	0.00088	0.00017	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Dichlorodifluoromethane	0.00030	U H	0.00088	0.00030	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Ethylbenzene	0.00018	U H	0.00088	0.00018	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Isopropylbenzene	0.00025	U H	0.00088	0.00025	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Methyl acetate	0.0038	U H	0.0044	0.0038	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Methyl tert-butyl ether	0.00045	U H	0.00088	0.00045	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Methylcyclohexane	0.00044	U H	0.00088	0.00044	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Methylene Chloride	0.0010	U H	0.0018	0.0010	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1

Client Sample ID: 2A-06-CS-4
Date Collected: 01/24/25 14:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-32
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00015	U H	0.00088	0.00015	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
o-Xylene	0.00017	U H	0.00088	0.00017	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Styrene	0.00025	U H	0.00088	0.00025	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Tetrachloroethene	0.00027	U H	0.00088	0.00027	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Toluene	0.00021	U H	0.00088	0.00021	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
trans-1,2-Dichloroethene	0.00022	U H	0.00088	0.00022	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
trans-1,3-Dichloropropene	0.00023	U H	0.00088	0.00023	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Trichloroethene	0.00028	U H	0.00088	0.00028	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Trichlorofluoromethane	0.00036	U H	0.00088	0.00036	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1
Vinyl chloride	0.00048	U H	0.00088	0.00048	mg/Kg	☼	01/25/25 11:29	03/06/25 16:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:29*	*03/06/25 16:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 138*	*01/25/25 11:29*	*03/06/25 16:30*	*1*
4-Bromofluorobenzene	*96*		*71 - 128*	*01/25/25 11:29*	*03/06/25 16:30*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 150*	*01/25/25 11:29*	*03/06/25 16:30*	*1*
Toluene-d8 (Surr)	*108*		*71 - 126*	*01/25/25 11:29*	*03/06/25 16:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2,4-Dinitrotoluene	0.036	U H	0.068	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2,6-Dinitrotoluene	0.024	U H	0.068	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1

Client Sample ID: 2A-06-CS-4
Date Collected: 01/24/25 14:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-32
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.054	U H	0.68	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Benzidine	0.070	U H *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Benzo[a]pyrene	**0.013**	**J H**	0.033	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Benzo[b]fluoranthene	**0.015**	**J H**	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Benzo[g,h,i]perylene	**0.016**	**J H**	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Fluoranthene	**0.016**	**J H**	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Fluorene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Hexachlorobutadiene	0.0071	U H	0.068	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Phenanthrene	**0.014**	**J H**	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1
Pyrene	**0.015**	**J H**	0.33	0.0083	mg/Kg	☼	03/04/25 08:46	03/04/25 23:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 23:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*24 - 137*	*03/04/25 08:46*	*03/04/25 23:54*	*1*

Client Sample ID: 2A-06-CS-4

Date Collected: 01/24/25 14:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-32

Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		38 - 128	03/04/25 08:46	03/04/25 23:54	1
2-Fluorophenol (Surr)	61		31 - 133	03/04/25 08:46	03/04/25 23:54	1
Nitrobenzene-d5 (Surr)	59		31 - 120	03/04/25 08:46	03/04/25 23:54	1
Phenol-d5 (Surr)	54		35 - 132	03/04/25 08:46	03/04/25 23:54	1
Terphenyl-d14 (Surr)	62		44 - 147	03/04/25 08:46	03/04/25 23:54	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0068	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
4,4'-DDE	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
4,4'-DDT	0.0012	U H	0.0068	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Aldrin	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
alpha-BHC	0.00069	U H	0.0020	0.00069	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
beta-BHC	0.00076	U H	0.0020	0.00076	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Dieldrin	0.00088	U H	0.0020	0.00088	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Endosulfan I	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Endosulfan II	0.0017	U H	0.0068	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Endosulfan sulfate	0.00085	U H	0.0068	0.00085	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Endrin	0.00097	U H	0.0068	0.00097	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Endrin aldehyde	0.0016	U H	0.0068	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Endrin ketone	0.0013	U H	0.0068	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Heptachlor	0.00080	U H	0.0068	0.00080	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Heptachlor epoxide	0.0010	U H	0.0068	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Methoxychlor	0.0015	U H	0.0068	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Toxaphene	0.024	U H	0.068	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1
Chlordane (n.o.s.)	0.016	U H	0.068	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 09:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	57		17 - 150	03/05/25 17:24	03/06/25 09:24	1
DCB Decachlorobiphenyl	54		17 - 150	03/05/25 17:24	03/06/25 09:24	1
Tetrachloro-m-xylene	107		21 - 150	03/05/25 17:24	03/06/25 09:24	1
Tetrachloro-m-xylene	87		21 - 150	03/05/25 17:24	03/06/25 09:24	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	49		20 - 150	03/05/25 17:15	03/06/25 13:50	1

Client Sample ID: 2A-06-CS-4

Date Collected: 01/24/25 14:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-32

Matrix: Solid
Percent Solids: 99.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*51*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:50*	*1*
Tetrachloro-m-xylene	*74*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:50*	*1*
Tetrachloro-m-xylene	*96*		*20 - 150*	*03/05/25 17:15*	*03/06/25 13:50*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:49	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:49	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:49	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:49	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:34	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:34	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:34	1
C21-C36 Aromatic	8.1	U H	8.1	8.1	mg/Kg	☼	03/06/25 22:12	03/07/25 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*64*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:34*	*1*
2-Fluorobiphenyl	*89*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:34*	*1*
2-Bromonaphthalene	*79*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:34*	*1*
1-Chlorooctadecane	*42*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:49*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4090**		15.9	4.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Antimony	0.12	U	0.79	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Arsenic	**1.0**		0.79	0.082	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Barium	**4.3**		1.6	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Beryllium	0.045	U	0.32	0.045	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Cadmium	0.090	U	0.79	0.090	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Calcium	32.3	U	79.4	32.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Chromium	**5.8**		1.6	0.72	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Cobalt	**0.33**	**J**	1.6	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Copper	**2.2**		1.6	0.29	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Iron	**3670**		47.6	16.0	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Lead	**3.0**		0.48	0.16	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Magnesium	**107**		79.4	8.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Manganese	**7.6**		3.2	0.32	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Nickel	**1.4**	**J**	1.6	0.37	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Potassium	**106**		79.4	12.9	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Selenium	**0.11**	**J**	0.99	0.10	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Silver	0.071	U	0.32	0.071	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Sodium	36.3	U	79.4	36.3	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Thallium	0.033	U	0.32	0.033	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1
Vanadium	**6.4**		1.6	0.16	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1

Client Sample ID: 2A-06-CS-4

Lab Sample ID: 460-319275-32
Date Collected: 01/24/25 14:20
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.4	U	6.4	2.4	mg/Kg	☼	03/07/25 12:53	03/08/25 12:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0078	U H	0.017	0.0078	mg/Kg	☼	03/07/25 01:02	03/07/25 05:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.43**	**H**	0.24	0.13	mg/Kg	☼	03/07/25 18:26	03/09/25 16:20	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.2**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2A-06-CS-8

Lab Sample ID: 460-319275-33
Date Collected: 01/24/25 14:30
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,1,2-Trichloroethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,1-Dichloroethane	0.00022	U H	0.0011	0.00022	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,1-Dichloroethene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,2,3-Trichlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,2,4-Trichlorobenzene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,2-Dibromo-3-Chloropropane	0.00048	U H *-	0.0011	0.00048	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,2-Dibromoethane	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,2-Dichlorobenzene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,2-Dichloroethane	0.00031	U H	0.0011	0.00031	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,2-Dichloropropane	0.00045	U H	0.0011	0.00045	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,3-Dichlorobenzene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
1,4-Dichlorobenzene	0.00024	U H	0.0011	0.00024	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
2-Butanone (MEK)	0.00039	U H	0.0053	0.00039	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
2-Hexanone	0.0018	U H	0.0053	0.0018	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
4-Methyl-2-pentanone (MIBK)	0.0016	U H	0.0053	0.0016	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Acetone	0.0060	U H	0.0063	0.0060	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Benzene	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Bromodichloromethane	0.00027	U H	0.0011	0.00027	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Bromoform	0.00045	U H	0.0011	0.00045	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Bromomethane	0.0011	U H *+	0.0021	0.0011	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Carbon disulfide	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Carbon tetrachloride	0.00041	U H	0.0011	0.00041	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Chlorobenzene	0.00019	U H	0.0011	0.00019	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Chlorobromomethane	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Chloroethane	0.00055	U H	0.0011	0.00055	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Chloroform	0.0010	U H	0.0011	0.0010	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Chloromethane	0.00046	U H	0.0011	0.00046	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
cis-1,2-Dichloroethene	0.00038	U H	0.0011	0.00038	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
cis-1,3-Dichloropropene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1

Client Sample ID: 2A-06-CS-8
Date Collected: 01/24/25 14:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-33
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00023	U H	0.0011	0.00023	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Dibromochloromethane	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Dichlorodifluoromethane	0.00036	U H	0.0011	0.00036	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Ethylbenzene	0.00021	U H	0.0011	0.00021	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Isopropylbenzene	0.00030	U H	0.0011	0.00030	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Methyl acetate	0.0045	U H	0.0053	0.0045	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Methyl tert-butyl ether	0.00054	U H	0.0011	0.00054	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Methylcyclohexane	0.00052	U H	0.0011	0.00052	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Methylene Chloride	0.0012	U H	0.0021	0.0012	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
m-Xylene & p-Xylene	0.00018	U H	0.0011	0.00018	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
o-Xylene	0.00020	U H	0.0011	0.00020	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Styrene	0.00029	U H	0.0011	0.00029	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Tetrachloroethene	0.00032	U H	0.0011	0.00032	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Toluene	0.00025	U H	0.0011	0.00025	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
trans-1,2-Dichloroethene	0.00026	U H	0.0011	0.00026	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
trans-1,3-Dichloropropene	0.00028	U H	0.0011	0.00028	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Trichloroethene	0.00034	U H	0.0011	0.00034	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Trichlorofluoromethane	0.00043	U H	0.0011	0.00043	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1
Vinyl chloride	0.00057	U H	0.0011	0.00057	mg/Kg	☼	01/25/25 11:29	03/07/25 09:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*ug/Kg*	☼		*N/A*	*01/25/25 11:29*	*03/07/25 09:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*65 - 138*	*01/25/25 11:29*	*03/07/25 09:02*	*1*
4-Bromofluorobenzene	*103*		*71 - 128*	*01/25/25 11:29*	*03/07/25 09:02*	*1*
Dibromofluoromethane (Surr)	*115*		*50 - 150*	*01/25/25 11:29*	*03/07/25 09:02*	*1*
Toluene-d8 (Surr)	*112*		*71 - 126*	*01/25/25 11:29*	*03/07/25 09:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
1,2,4-Trichlorobenzene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
1,2-Dichlorobenzene	0.0057	U H	0.33	0.0057	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
1,2-Diphenylhydrazine	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
1,3-Dichlorobenzene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
1,4-Dichlorobenzene	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2,4,5-Trichlorophenol	0.034	U H	0.33	0.034	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2,4,6-Trichlorophenol	0.043	U H	0.13	0.043	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2,4-Dichlorophenol	0.021	U H	0.13	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2,4-Dimethylphenol	0.040	U H	0.33	0.040	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2,4-Dinitrophenol	0.16	U H	0.27	0.16	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2,4-Dinitrotoluene	0.036	U H	0.067	0.036	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2,6-Dinitrotoluene	0.024	U H	0.067	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2-Chloronaphthalene	0.015	U H	0.33	0.015	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2-Chlorophenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2-Methylnaphthalene	0.0093	U H	0.33	0.0093	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2-Methylphenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2-Nitroaniline	0.025	U H	0.33	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
2-Nitrophenol	0.033	U H	0.33	0.033	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-06-CS-8
Date Collected: 01/24/25 14:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-33
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.050	U H	0.13	0.050	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
3-Nitroaniline	0.079	U H	0.33	0.079	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
4,6-Dinitro-2-methylphenol	0.14	U H	0.27	0.14	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
4-Bromophenyl phenyl ether	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
4-Chloro-3-methylphenol	0.019	U H	0.33	0.019	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
4-Chloroaniline	0.059	U H	0.33	0.059	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
4-Chlorophenyl phenyl ether	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
4-Methylphenol	0.021	U H	0.33	0.021	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
4-Nitroaniline	0.038	U H	0.33	0.038	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
4-Nitrophenol	0.054	U H	0.67	0.054	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Acenaphthene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Acenaphthylene	0.0095	U H	0.33	0.0095	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Acetophenone	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Anthracene	0.010	U H	0.33	0.010	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Atrazine	0.020	U H	0.13	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Benzaldehyde	0.055	U H	0.33	0.055	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Benzidine	0.070	U H *+	0.33	0.070	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Benzo[a]anthracene	0.025	U H	0.033	0.025	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Benzo[a]pyrene	0.0089	U H	0.033	0.0089	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Benzo[b]fluoranthene	0.0086	U H	0.033	0.0086	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Benzo[g,h,i]perylene	0.0098	U H	0.33	0.0098	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Benzo[k]fluoranthene	0.0065	U H	0.033	0.0065	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
bis (2-chloroisopropyl) ether	0.020	U H	0.33	0.020	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Bis(2-chloroethoxy)methane	0.026	U H	0.33	0.026	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Bis(2-chloroethyl)ether	0.012	U H	0.033	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Bis(2-ethylhexyl) phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Butyl benzyl phthalate	0.016	U H	0.33	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Caprolactam	0.052	U H	0.33	0.052	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Carbazole	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Chrysene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Dibenz(a,h)anthracene	0.014	U H	0.033	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Dibenzofuran	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Diethyl phthalate	0.011	U H	0.33	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Dimethyl phthalate	0.076	U H	0.33	0.076	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Di-n-butyl phthalate	0.013	U H	0.33	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Di-n-octyl phthalate	0.018	U H	0.33	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Fluoranthene	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Fluorene	0.0097	U H	0.33	0.0097	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Hexachlorobenzene	0.016	U H	0.033	0.016	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Hexachlorobutadiene	0.0071	U H	0.067	0.0071	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Hexachlorocyclopentadiene	0.029	U H *+	0.33	0.029	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Hexachloroethane	0.011	U H	0.033	0.011	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Indeno[1,2,3-cd]pyrene	0.013	U H	0.033	0.013	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Isophorone	0.096	U H	0.13	0.096	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Naphthalene	0.0058	U H	0.33	0.0058	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Nitrobenzene	0.018	U H	0.033	0.018	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
N-Nitrosodimethylamine	0.031	U H	0.33	0.031	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
N-Nitrosodi-n-propylamine	0.024	U H	0.033	0.024	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
N-Nitrosodiphenylamine	0.027	U H	0.33	0.027	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1

Client Sample ID: 2A-06-CS-8

Date Collected: 01/24/25 14:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-33

Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.068	U H	0.27	0.068	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Phenanthrene	0.014	U H	0.33	0.014	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Phenol	0.012	U H	0.33	0.012	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1
Pyrene	0.0083	U H	0.33	0.0083	mg/Kg	☼	03/04/25 08:46	03/04/25 18:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*	*H*	*mg/Kg*	☼		*N/A*	*03/04/25 08:46*	*03/04/25 18:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*24 - 137*	*03/04/25 08:46*	*03/04/25 18:15*	*1*
2-Fluorobiphenyl	*78*		*38 - 128*	*03/04/25 08:46*	*03/04/25 18:15*	*1*
2-Fluorophenol (Surr)	*83*		*31 - 133*	*03/04/25 08:46*	*03/04/25 18:15*	*1*
Nitrobenzene-d5 (Surr)	*76*		*31 - 120*	*03/04/25 08:46*	*03/04/25 18:15*	*1*
Phenol-d5 (Surr)	*81*		*35 - 132*	*03/04/25 08:46*	*03/04/25 18:15*	*1*
Terphenyl-d14 (Surr)	*77*		*44 - 147*	*03/04/25 08:46*	*03/04/25 18:15*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U H	0.0067	0.0011	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
4,4'-DDE	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
4,4'-DDT	0.0012	U H	0.0067	0.0012	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Aldrin	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
alpha-BHC	0.00068	U H	0.0020	0.00068	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
beta-BHC	0.00075	U H	0.0020	0.00075	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
delta-BHC	0.00041	U H	0.0020	0.00041	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Dieldrin	0.00087	U H	0.0020	0.00087	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Endosulfan I	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Endosulfan II	0.0017	U H	0.0067	0.0017	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Endosulfan sulfate	0.00084	U H	0.0067	0.00084	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Endrin	0.00096	U H	0.0067	0.00096	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Endrin aldehyde	0.0016	U H	0.0067	0.0016	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Endrin ketone	0.0013	U H	0.0067	0.0013	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
gamma-BHC (Lindane)	0.00062	U H	0.0020	0.00062	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Heptachlor	0.00079	U H	0.0067	0.00079	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Heptachlor epoxide	0.0010	U H	0.0067	0.0010	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Methoxychlor	0.0015	U H	0.0067	0.0015	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Toxaphene	0.024	U H	0.067	0.024	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1
Chlordane (n.o.s.)	0.016	U H	0.067	0.016	mg/Kg	☼	03/05/25 17:24	03/06/25 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*17 - 150*	*03/05/25 17:24*	*03/06/25 09:37*	*1*
DCB Decachlorobiphenyl	*66*		*17 - 150*	*03/05/25 17:24*	*03/06/25 09:37*	*1*
Tetrachloro-m-xylene	*129*		*21 - 150*	*03/05/25 17:24*	*03/06/25 09:37*	*1*
Tetrachloro-m-xylene	*107*		*21 - 150*	*03/05/25 17:24*	*03/06/25 09:37*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1

Client Sample ID: 2A-06-CS-8

Date Collected: 01/24/25 14:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-33

Matrix: Solid
Percent Solids: 99.2

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg	☼	03/05/25 17:15	03/06/25 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*20 - 150*	*03/05/25 17:15*	*03/06/25 14:06*	*1*
DCB Decachlorobiphenyl	*64*		*20 - 150*	*03/05/25 17:15*	*03/06/25 14:06*	*1*
Tetrachloro-m-xylene	*87*		*20 - 150*	*03/05/25 17:15*	*03/06/25 14:06*	*1*
Tetrachloro-m-xylene	*115*		*20 - 150*	*03/05/25 17:15*	*03/06/25 14:06*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			03/07/25 14:45	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 13:05	1
C9-C12 Aliphatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 13:05	1
C16-C21 Aliphatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 13:05	1
C21-C40 Aliphatics	7.0	U H	7.0	7.0	mg/Kg	☼	03/06/25 22:12	03/07/25 13:05	1
C16-C21 Aromatics	5.0	U H	5.0	5.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:49	1
C10-C12 Aromatics	2.0	U H	2.0	2.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:49	1
C12-C16 Aromatics	3.0	U H	3.0	3.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:49	1
C21-C36 Aromatic	8.0	U H	8.0	8.0	mg/Kg	☼	03/06/25 22:12	03/07/25 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*63*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:49*	*1*
2-Fluorobiphenyl	*82*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:49*	*1*
2-Bromonaphthalene	*69*		*40 - 140*	*03/06/25 22:12*	*03/07/25 12:49*	*1*
1-Chlorooctadecane	*49*		*40 - 140*	*03/06/25 22:12*	*03/07/25 13:05*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1860**		16.9	4.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Antimony	0.12	U	0.85	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Arsenic	**0.61**	**J**	0.85	0.087	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Barium	**2.0**		1.7	0.12	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Beryllium	0.048	U	0.34	0.048	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Cadmium	0.096	U	0.85	0.096	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Calcium	34.5	U	84.7	34.5	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Chromium	**2.7**		1.7	0.77	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Cobalt	**0.18**	**J**	1.7	0.13	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Copper	**1.1**	**J**	1.7	0.31	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Iron	**2080**		50.8	17.1	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Lead	**1.1**		0.51	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Magnesium	**43.5**	**J**	84.7	8.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1

Client Sample ID: 2A-06-CS-8

Lab Sample ID: 460-319275-33

Date Collected: 01/24/25 14:30
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**4.5**		3.4	0.34	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Nickel	**0.60**	**J**	1.7	0.40	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Potassium	**59.1**	**J**	84.7	13.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Silver	0.075	U	0.34	0.075	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Sodium	38.7	U	84.7	38.7	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Thallium	0.035	U	0.34	0.035	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Vanadium	**3.9**		1.7	0.17	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1
Zinc	2.6	U	6.8	2.6	mg/Kg	☼	03/07/25 12:53	03/08/25 12:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	U H	0.016	0.0077	mg/Kg	☼	03/07/25 01:02	03/07/25 05:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U H	0.23	0.13	mg/Kg	☼	03/07/25 18:26	03/09/25 16:26	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.2**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2A-07-TS

Lab Sample ID: 460-319275-34

Date Collected: 01/24/25 14:50
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,2-Dibromo-3-Chloropropane	0.00046	U *+	0.0010	0.00046	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
2-Hexanone	0.0017	U *-	0.0050	0.0017	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
4-Methyl-2-pentanone (MIBK)	0.0016	U *-	0.0050	0.0016	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Acetone	**0.061**		0.0060	0.0057	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Bromomethane	0.0010	U *+	0.0020	0.0010	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-07-TS
Date Collected: 01/24/25 14:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-34
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Chlorobromomethane	0.00028	U *+	0.0010	0.00028	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Methyl acetate	0.0043	U *+	0.0050	0.0043	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
m-Xylene & p-Xylene	**0.00037**	**J**	0.0010	0.00017	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg	☼	01/25/25 11:30	01/30/25 02:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.7*	*J*	*ug/Kg*	☼	*2.55*	*N/A*	*01/25/25 11:30*	*01/30/25 02:52*	*1*
1R-.alpha.-Pinene	*500*	*J N*	*ug/Kg*	☼	*9.93*	*7785-70-8*	*01/25/25 11:30*	*01/30/25 02:52*	*1*
.beta.-Pinene	*62*	*J N*	*ug/Kg*	☼	*10.45*	*127-91-3*	*01/25/25 11:30*	*01/30/25 02:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 138*	*01/25/25 11:30*	*01/30/25 02:52*	*1*
4-Bromofluorobenzene	*89*		*71 - 128*	*01/25/25 11:30*	*01/30/25 02:52*	*1*
Dibromofluoromethane (Surr)	*120*		*50 - 150*	*01/25/25 11:30*	*01/30/25 02:52*	*1*
Toluene-d8 (Surr)	*90*		*71 - 126*	*01/25/25 11:30*	*01/30/25 02:52*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-07-TS
Date Collected: 01/24/25 14:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-34
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
4-Nitrophenol	0.054	U	0.68	0.054	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Benzo[a]pyrene	**0.012**	**J**	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Benzo[b]fluoranthene	**0.012**	**J**	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Benzo[k]fluoranthene	**0.013**	**J**	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Diethyl phthalate	**0.011**	**J**	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Di-n-butyl phthalate	**0.021**	**J**	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Fluoranthene	**0.013**	**J**	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1

Client Sample ID: 2A-07-TS

Date Collected: 01/24/25 14:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-34

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Indeno[1,2,3-cd]pyrene	**0.014**	**J**	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1
Pyrene	**0.014**	**J**	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/29/25 06:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1R-.alpha.-Pinene	*1.2*	*J N*	*mg/Kg*	☼	*3.67*	*7785-70-8*	*01/28/25 10:34*	*01/29/25 06:01*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*0.36*	*J N*	*mg/Kg*	☼	*11.12*	*1740-19-8*	*01/28/25 10:34*	*01/29/25 06:01*	*1*
Trichloroacetic acid, tetradecyl ester	*0.33*	*J N*	*mg/Kg*	☼	*12.08*	*74339-52-9*	*01/28/25 10:34*	*01/29/25 06:01*	*1*
Unknown	*1.0*	*J*	*mg/Kg*	☼	*15.67*	*N/A*	*01/28/25 10:34*	*01/29/25 06:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*24 - 137*	*01/28/25 10:34*	*01/29/25 06:01*	*1*
2-Fluorobiphenyl	*62*		*38 - 128*	*01/28/25 10:34*	*01/29/25 06:01*	*1*
2-Fluorophenol (Surr)	*53*		*31 - 133*	*01/28/25 10:34*	*01/29/25 06:01*	*1*
Nitrobenzene-d5 (Surr)	*59*		*31 - 120*	*01/28/25 10:34*	*01/29/25 06:01*	*1*
Phenol-d5 (Surr)	*58*		*35 - 132*	*01/28/25 10:34*	*01/29/25 06:01*	*1*
Terphenyl-d14 (Surr)	*65*		*44 - 147*	*01/28/25 10:34*	*01/29/25 06:01*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0068	0.0011	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1

Client Sample ID: 2A-07-TS

Date Collected: 01/24/25 14:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-34

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*139*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:26*	*1*
DCB Decachlorobiphenyl	*126*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:26*	*1*
Tetrachloro-m-xylene	*114*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:26*	*1*
Tetrachloro-m-xylene	*103*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:26*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*125*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:08*	*1*
DCB Decachlorobiphenyl	*116*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:08*	*1*
Tetrachloro-m-xylene	*95*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:08*	*1*
Tetrachloro-m-xylene	*94*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:08*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:58	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:58	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:58	1
C21-C40 Aliphatics	7.0	U *1	7.0	7.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:58	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:58	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:58	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 20:58	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:58*	*1*
2-Fluorobiphenyl	*84*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:58*	*1*
2-Bromonaphthalene	*82*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:58*	*1*
1-Chlorooctadecane	*75*		*40 - 140*	*01/29/25 22:14*	*01/30/25 20:58*	*1*

Client Sample ID: 2A-07-TS

Date Collected: 01/24/25 14:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-34

Matrix: Solid
Percent Solids: 99.1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**415**		18.4	5.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Arsenic	**0.32**	**J**	0.92	0.095	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Barium	**1.8**		1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Calcium	**72.7**	**J**	91.8	37.3	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Chromium	**1.3**	**J**	1.8	0.83	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Cobalt	0.14	U	1.8	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Copper	**0.97**	**J**	1.8	0.34	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Iron	**534**		55.1	18.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Lead	**6.8**		0.55	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Magnesium	**23.4**	**J**	91.8	9.4	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Manganese	**4.0**		3.7	0.37	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Nickel	0.43	U	1.8	0.43	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Potassium	**23.1**	**J**	91.8	14.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Sodium	41.9	U	91.8	41.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Vanadium	**2.7**		1.8	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1
Zinc	2.8	U	7.3	2.8	mg/Kg	☼	01/29/25 07:26	01/30/25 15:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	U	0.016	0.0076	mg/Kg	☼	01/29/25 00:52	01/29/25 04:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.23	0.13	mg/Kg	☼	01/29/25 18:15	01/29/25 21:48	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**99.1**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2A-07-CS-4

Date Collected: 01/24/25 15:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-35

Matrix: Solid
Percent Solids: 98.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,2-Dibromo-3-Chloropropane	0.00048	U *+	0.0010	0.00048	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,2-Dibromoethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,2-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-07-CS-4
Date Collected: 01/24/25 15:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-35
Matrix: Solid
Percent Solids: 98.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,2-Dichloropropane	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,3-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
2-Butanone (MEK)	0.00038	U	0.0052	0.00038	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
2-Hexanone	0.0018	U *-	0.0052	0.0018	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
4-Methyl-2-pentanone (MIBK)	0.0016	U *-	0.0052	0.0016	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Acetone	**0.015**		0.0062	0.0059	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Benzene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Bromodichloromethane	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Bromoform	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Bromomethane	0.0010	U *+	0.0021	0.0010	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Carbon disulfide	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Chlorobromomethane	0.00029	U *+	0.0010	0.00029	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Chloroethane	0.00054	U	0.0010	0.00054	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Chloroform	0.0010	U	0.0010	0.0010	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Chloromethane	0.00045	U	0.0010	0.00045	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Cyclohexane	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Dibromochloromethane	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Isopropylbenzene	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Methyl acetate	0.0045	U *+	0.0052	0.0045	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Methyl tert-butyl ether	0.00053	U	0.0010	0.00053	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Methylcyclohexane	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
m-Xylene & p-Xylene	**0.00018**	**J**	0.0010	0.00018	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Styrene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Tetrachloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
trans-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1
Vinyl chloride	0.00057	U	0.0010	0.00057	mg/Kg	☼	01/25/25 11:31	01/30/25 03:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:31*	*01/30/25 03:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*	*01/25/25 11:31*	*01/30/25 03:15*	*1*
4-Bromofluorobenzene	*85*		*71 - 128*	*01/25/25 11:31*	*01/30/25 03:15*	*1*
Dibromofluoromethane (Surr)	*118*		*50 - 150*	*01/25/25 11:31*	*01/30/25 03:15*	*1*
Toluene-d8 (Surr)	*87*		*71 - 126*	*01/25/25 11:31*	*01/30/25 03:15*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-07-CS-4
Date Collected: 01/24/25 15:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-35
Matrix: Solid
Percent Solids: 98.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
1,2,4-Trichlorobenzene	0.0087	U	0.034	0.0087	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
1,2-Dichlorobenzene	0.0057	U	0.34	0.0057	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
1,2-Diphenylhydrazine	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2,4,5-Trichlorophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2,4,6-Trichlorophenol	0.043	U	0.14	0.043	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2,4-Dimethylphenol	0.040	U	0.34	0.040	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2,4-Dinitrophenol	0.17	U	0.27	0.17	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2-Methylnaphthalene	0.0094	U	0.34	0.0094	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
2-Nitrophenol	0.034	U	0.34	0.034	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
3,3'-Dichlorobenzidine	0.051	U	0.14	0.051	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
3-Nitroaniline	0.080	U	0.34	0.080	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
4-Bromophenyl phenyl ether	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
4-Chloroaniline	0.060	U	0.34	0.060	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
4-Methylphenol	0.021	U	0.34	0.021	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
4-Nitroaniline	0.039	U	0.34	0.039	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Acenaphthene	0.0096	U	0.34	0.0096	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Acenaphthylene	0.0096	U	0.34	0.0096	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Anthracene	0.010	U	0.34	0.010	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Benzaldehyde	0.056	U	0.34	0.056	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Benzidine	0.071	U	0.34	0.071	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Benzo[a]anthracene	0.025	U	0.034	0.025	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Benzo[a]pyrene	0.0090	U	0.034	0.0090	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Benzo[b]fluoranthene	0.0087	U	0.034	0.0087	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Benzo[g,h,i]perylene	0.0099	U	0.34	0.0099	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Benzo[k]fluoranthene	0.0066	U	0.034	0.0066	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
bis (2-chloroisopropyl) ether	0.020	U	0.34	0.020	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Bis(2-chloroethoxy)methane	0.026	U	0.34	0.026	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Caprolactam	0.052	U	0.34	0.052	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Chrysene	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1

Client Sample ID: 2A-07-CS-4

Date Collected: 01/24/25 15:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-35

Matrix: Solid
Percent Solids: 98.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Dimethyl phthalate	0.077	U	0.34	0.077	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Fluoranthene	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Fluorene	0.0099	U	0.34	0.0099	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Hexachlorobutadiene	0.0072	U	0.068	0.0072	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Isophorone	0.097	U	0.14	0.097	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Naphthalene	0.0058	U	0.34	0.0058	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
N-Nitrosodimethylamine	0.031	U	0.34	0.031	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
N-Nitrosodi-n-propylamine	0.024	U	0.034	0.024	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Phenol	0.012	U	0.34	0.012	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1
Pyrene	0.0084	U	0.34	0.0084	mg/Kg	☼	01/28/25 10:34	01/29/25 02:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.34*	*A J*	*mg/Kg*	☼	*2.81*	*N/A*	*01/28/25 10:34*	*01/29/25 02:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*24 - 137*	*01/28/25 10:34*	*01/29/25 02:39*	*1*
2-Fluorobiphenyl	*83*		*38 - 128*	*01/28/25 10:34*	*01/29/25 02:39*	*1*
2-Fluorophenol (Surr)	*75*		*31 - 133*	*01/28/25 10:34*	*01/29/25 02:39*	*1*
Nitrobenzene-d5 (Surr)	*81*		*31 - 120*	*01/28/25 10:34*	*01/29/25 02:39*	*1*
Phenol-d5 (Surr)	*79*		*35 - 132*	*01/28/25 10:34*	*01/29/25 02:39*	*1*
Terphenyl-d14 (Surr)	*90*		*44 - 147*	*01/28/25 10:34*	*01/29/25 02:39*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
4,4'-DDT	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Dieldrin	0.00089	U	0.0020	0.00089	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Endosulfan II	0.0018	U	0.0068	0.0018	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Endosulfan sulfate	0.00086	U	0.0068	0.00086	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Endrin	0.00098	U	0.0068	0.00098	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1

Client Sample ID: 2A-07-CS-4
Date Collected: 01/24/25 15:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-35
Matrix: Solid
Percent Solids: 98.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1
Chlordane (n.o.s.)	0.017	U	0.068	0.017	mg/Kg	☼	01/28/25 06:14	01/28/25 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*133*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:39*	*1*
DCB Decachlorobiphenyl	*121*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:39*	*1*
Tetrachloro-m-xylene	*113*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:39*	*1*
Tetrachloro-m-xylene	*107*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:39*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*131*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:25*	*1*
DCB Decachlorobiphenyl	*112*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:25*	*1*
Tetrachloro-m-xylene	*97*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:25*	*1*
Tetrachloro-m-xylene	*97*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:25*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:14	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/29/25 22:14	01/30/25 21:14	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:14	1
C21-C40 Aliphatics	7.1	U *1	7.1	7.1	mg/Kg	☼	01/29/25 22:14	01/30/25 21:14	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/29/25 22:14	01/30/25 21:14	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:14	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/29/25 22:14	01/30/25 21:14	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 21:14	1

Client Sample ID: 2A-07-CS-4

Date Collected: 01/24/25 15:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-35

Matrix: Solid
Percent Solids: 98.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*40 - 140*	*01/29/25 22:14*	*01/30/25 21:14*	*1*
2-Fluorobiphenyl	*84*		*40 - 140*	*01/29/25 22:14*	*01/30/25 21:14*	*1*
2-Bromonaphthalene	*83*		*40 - 140*	*01/29/25 22:14*	*01/30/25 21:14*	*1*
1-Chlorooctadecane	*89*		*40 - 140*	*01/29/25 22:14*	*01/30/25 21:14*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5330**		18.7	5.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Arsenic	**1.2**		0.94	0.096	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Barium	**4.3**		1.9	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Beryllium	0.053	U	0.37	0.053	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Calcium	38.1	U	93.5	38.1	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Chromium	**7.5**		1.9	0.85	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Cobalt	**0.42**	**J**	1.9	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Copper	**2.7**		1.9	0.34	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Iron	**4290**		56.1	18.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Lead	**3.0**		0.56	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Magnesium	**119**		93.5	9.5	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Manganese	**8.8**		3.7	0.38	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Nickel	**1.9**		1.9	0.44	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Potassium	**129**		93.5	15.2	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Selenium	**0.13**	**J**	1.2	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Silver	0.083	U	0.37	0.083	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Sodium	42.7	U	93.5	42.7	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Vanadium	**8.5**		1.9	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1
Zinc	**2.9**	**J**	7.5	2.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0086**	**J**	0.015	0.0072	mg/Kg	☼	01/29/25 00:52	01/29/25 04:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	01/29/25 18:19	01/29/25 21:50	1
Percent Moisture (EPA Moisture)	**1.9**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**98.1**		1.0	1.0	%			01/27/25 07:37	1

Client Sample ID: 2A-07-CS-8

Date Collected: 01/24/25 15:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-36

Matrix: Solid
Percent Solids: 98.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1

Client Sample ID: 2A-07-CS-8
Date Collected: 01/24/25 15:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-36
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,2-Dibromo-3-Chloropropane	0.00051	U *+	0.0011	0.00051	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,2-Dibromoethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,2-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,2-Dichloroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,2-Dichloropropane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,3-Dichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
2-Butanone (MEK)	0.00040	U	0.0055	0.00040	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
2-Hexanone	0.0019	U *-	0.0055	0.0019	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
4-Methyl-2-pentanone (MIBK)	0.0017	U *-	0.0055	0.0017	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Acetone	**0.030**		0.0066	0.0063	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Bromodichloromethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Bromoform	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Bromomethane	0.0011	U *+	0.0022	0.0011	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Carbon disulfide	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Carbon tetrachloride	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Chlorobromomethane	0.00031	U *+	0.0011	0.00031	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Chloroethane	0.00057	U	0.0011	0.00057	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Chloromethane	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Isopropylbenzene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Methyl acetate	0.0047	U *+	0.0055	0.0047	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Methyl tert-butyl ether	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Methylcyclohexane	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Tetrachloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Trichlorofluoromethane	0.00045	U	0.0011	0.00045	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1
Vinyl chloride	0.00060	U	0.0011	0.00060	mg/Kg	☼	01/25/25 11:32	01/30/25 03:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/25/25 11:32*	*01/30/25 03:38*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-07-CS-8

Date Collected: 01/24/25 15:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-36

Matrix: Solid
Percent Solids: 98.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 138*	*01/25/25 11:32*	*01/30/25 03:38*	*1*
4-Bromofluorobenzene	*97*		*71 - 128*	*01/25/25 11:32*	*01/30/25 03:38*	*1*
Dibromofluoromethane (Surr)	*112*		*50 - 150*	*01/25/25 11:32*	*01/30/25 03:38*	*1*
Toluene-d8 (Surr)	*90*		*71 - 126*	*01/25/25 11:32*	*01/30/25 03:38*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
4-Nitrophenol	0.054	U	0.68	0.054	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1

Client Sample ID: 2A-07-CS-8
Date Collected: 01/24/25 15:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-36
Matrix: Solid
Percent Solids: 98.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/28/25 10:34	01/28/25 22:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.33*	*A J*	*mg/Kg*	☼	*2.81*	*N/A*	*01/28/25 10:34*	*01/28/25 22:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*24 - 137*	*01/28/25 10:34*	*01/28/25 22:12*	*1*
2-Fluorobiphenyl	*72*		*38 - 128*	*01/28/25 10:34*	*01/28/25 22:12*	*1*
2-Fluorophenol (Surr)	*64*		*31 - 133*	*01/28/25 10:34*	*01/28/25 22:12*	*1*
Nitrobenzene-d5 (Surr)	*68*		*31 - 120*	*01/28/25 10:34*	*01/28/25 22:12*	*1*
Phenol-d5 (Surr)	*68*		*35 - 132*	*01/28/25 10:34*	*01/28/25 22:12*	*1*
Terphenyl-d14 (Surr)	*77*		*44 - 147*	*01/28/25 10:34*	*01/28/25 22:12*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1

Client Sample ID: 2A-07-CS-8

Date Collected: 01/24/25 15:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-36

Matrix: Solid
Percent Solids: 98.9

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/28/25 06:14	01/28/25 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:52*	*1*
DCB Decachlorobiphenyl	*113*		*17 - 150*	*01/28/25 06:14*	*01/28/25 19:52*	*1*
Tetrachloro-m-xylene	*102*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:52*	*1*
Tetrachloro-m-xylene	*98*		*21 - 150*	*01/28/25 06:14*	*01/28/25 19:52*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Aroclor 1260	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1
Polychlorinated biphenyls, Total	0.018	U	0.068	0.018	mg/Kg	☼	01/28/25 06:19	01/28/25 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:42*	*1*
DCB Decachlorobiphenyl	*99*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:42*	*1*
Tetrachloro-m-xylene	*95*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:42*	*1*
Tetrachloro-m-xylene	*94*		*20 - 150*	*01/28/25 06:19*	*01/28/25 20:42*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:30	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:30	1
C16-C21 Aliphatics	2.0	U *1	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:30	1
C21-C40 Aliphatics	7.1	U *1	7.1	7.1	mg/Kg	☼	01/29/25 22:14	01/30/25 21:30	1

Client Sample ID: 2A-07-CS-8
Date Collected: 01/24/25 15:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-36
Matrix: Solid
Percent Solids: 98.9

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:30	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:30	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/29/25 22:14	01/30/25 21:30	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/29/25 22:14	01/30/25 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*40 - 140*	*01/29/25 22:14*	*01/30/25 21:30*	*1*
2-Fluorobiphenyl	*93*		*40 - 140*	*01/29/25 22:14*	*01/30/25 21:30*	*1*
2-Bromonaphthalene	*85*		*40 - 140*	*01/29/25 22:14*	*01/30/25 21:30*	*1*
1-Chlorooctadecane	*79*		*40 - 140*	*01/29/25 22:14*	*01/30/25 21:30*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1480**		18.4	5.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Antimony	0.13	U	0.92	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Arsenic	**0.39**	**J**	0.92	0.095	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Barium	**1.6**	**J**	1.8	0.13	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Beryllium	0.052	U	0.37	0.052	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Cadmium	0.10	U	0.92	0.10	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Calcium	37.4	U	91.9	37.4	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Chromium	**2.3**		1.8	0.83	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Cobalt	**0.20**	**J**	1.8	0.14	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Copper	**0.99**	**J**	1.8	0.34	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Iron	**1220**		55.2	18.6	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Lead	**1.2**		0.55	0.18	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Magnesium	**31.1**	**J**	91.9	9.4	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Manganese	**4.0**		3.7	0.37	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Nickel	**0.58**	**J**	1.8	0.43	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Potassium	**47.0**	**J**	91.9	14.9	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Selenium	0.12	U	1.1	0.12	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Sodium	42.0	U	91.9	42.0	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Vanadium	**2.4**		1.8	0.19	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1
Zinc	2.8	U	7.4	2.8	mg/Kg	☼	01/29/25 07:26	01/30/25 15:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0074	U	0.016	0.0074	mg/Kg	☼	01/29/25 00:52	01/29/25 04:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/29/25 18:19	01/29/25 21:57	1
Percent Moisture (EPA Moisture)	**1.1**		1.0	1.0	%			01/27/25 07:37	1
Percent Solids (EPA Moisture)	**98.9**		1.0	1.0	%			01/27/25 07:37	1

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(65-138)	(71-128)	(50-150)	(71-126)
460-319275-3	4-01-TS	105	101	107	108
460-319275-4	4-01-CS	114	102	110	105
460-319275-5	4-04-CS-4	102	86	115	93
460-319275-6	4-04-CS-8	107	85	114	87
460-319275-7	4-03-TS	115	107	113	111
460-319275-8	4-03-CS-4	103	97	106	105
460-319275-9	4-03-CS-8	105	100	107	105
460-319275-10	IB-01-TS	117	94	121	93
460-319275-11	IB-01-CS	108	85	118	89
460-319275-12	Dup-04	108	87	118	89
460-319275-13	IB-05-CS-4	104	100	107	109
460-319275-13 MS	IB-05-CS-4	102	97	105	106
460-319275-13 MSD	IB-05-CS-4	104	99	107	107
460-319275-14	IB-05-CS-8	102	99	101	106
460-319275-15	IB-04-CS-4	107	85	116	87
460-319275-15 MS	IB-04-CS-4	78	91	92	82
460-319275-15 MSD	IB-04-CS-4	78	91	93	83
460-319275-16	IB-04-CS-8	107	84	117	88
460-319275-17	IB-06-TS	109	103	109	109
460-319275-18	IB-06-CS-4	105	97	107	101
460-319275-19	IB-06-CS-8	104	98	108	105
460-319275-20	Dup-05	109	99	109	101
460-319275-21	IB-02-TS	109	86	118	88
460-319275-22	IB-02-CS	108	86	117	88
460-319275-23	IB-03-TS	112	113	114	107
460-319275-24	IB-03-CS	109	94	112	114
460-319275-25	2B-02-TS	111	87	119	90
460-319275-26	2B-02-CS	111	85	118	87
460-319275-27	2B-01-TS	109	99	111	110
460-319275-28	2B-01-CS	106	95	107	107
460-319275-29	2A-05-TS	108	86	118	89
460-319275-30	2A-05-CS-4	109	86	119	88
460-319275-31	2A-05-CS-8	111	85	119	88
460-319275-32	2A-06-CS-4	108	96	109	108
460-319275-33	2A-06-CS-8	113	103	115	112
460-319275-34	2A-07-TS	109	89	120	90
460-319275-35	2A-07-CS-4	107	85	118	87
460-319275-36	2A-07-CS-8	100	97	112	90
LB3 460-1018092/1-A	Method Blank	101	84	113	90
LCS 460-1018633/3	Lab Control Sample	107	86	115	90
LCS 460-1018701/3	Lab Control Sample	83	92	92	82
LCS 460-1024342/3	Lab Control Sample	106	88	109	106
LCS 460-1024609/3	Lab Control Sample	112	98	113	104
LCSD 460-1018633/4	Lab Control Sample Dup	103	85	114	92
LCSD 460-1024342/4	Lab Control Sample Dup	104	94	102	102
LCSD 460-1024609/4	Lab Control Sample Dup	121	116	122	116
MB 460-1018633/7	Method Blank	105	85	114	89
MB 460-1018701/7	Method Blank	84	93	93	81
MB 460-1024342/7	Method Blank	105	97	101	104

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(65-138)	(71-128)	(50-150)	(71-126)
MB 460-1024609/7	Method Blank	111	101	112	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-128)	(76-120)	(77-132)	(80-120)
460-319223-B-1 MS	Matrix Spike	100	117	93	99
460-319223-B-1 MSD	Matrix Spike Duplicate	105	114	96	97
460-319275-1	FB-20250124	104	111	99	104
460-319275-2	Trip Blank	110	117	98	103
460-319312-A-1 MS	Matrix Spike	110	117	99	103
460-319312-A-1 MSD	Matrix Spike Duplicate	111	118	99	103
LCS 460-1018322/14	Lab Control Sample	106	118	99	103
LCS 460-1018424/4	Lab Control Sample	105	119	96	102
MB 460-1018322/10	Method Blank	104	105	91	95
MB 460-1018424/9	Method Blank	107	108	95	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(24-137)	(38-128)	(31-133)	(31-120)	(35-132)	(44-147)
460-319275-3	4-01-TS	89	59	67	59	72	58
460-319275-4	4-01-CS	90	81	85	78	86	78
460-319275-5	4-04-CS-4	61	59	53	58	56	60
460-319275-6	4-04-CS-8	52	52	47	49	48	53
460-319275-7	4-03-TS	56	49	48	45	47	49
460-319275-8	4-03-CS-4	94	84	86	81	89	77
460-319275-9	4-03-CS-8	89	77	82	75	82	74
460-319275-10	IB-01-TS	46	46	41	45	42	46
460-319275-11	IB-01-CS	64	68	56	63	63	72
460-319275-12	Dup-04	52	53	44	50	50	58
460-319275-13	IB-05-CS-4	73	62	69	62	70	61
460-319275-13 MS	IB-05-CS-4	98	79	81	77	82	73
460-319275-13 MSD	IB-05-CS-4	99	79	81	77	85	75
460-319275-14	IB-05-CS-8	94	79	88	83	89	77
460-319275-15	IB-04-CS-4	59	62	52	59	59	66

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319275-1
Project/Site: Manchester LF JR0312

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(24-137)	(38-128)	(31-133)	(31-120)	(35-132)	(44-147)
460-319275-15 MS	IB-04-CS-4	72	72	62	71	68	75
460-319275-15 MSD	IB-04-CS-4	75	74	66	75	72	78
460-319275-16	IB-04-CS-8	54	53	46	49	49	55
460-319275-17	IB-06-TS	65	62	59	61	57	64
460-319275-18	IB-06-CS-4	58	51	54	49	53	46
460-319275-19	IB-06-CS-8	93	77	81	75	82	74
460-319275-20	Dup-05	91	78	80	75	81	74
460-319275-21	IB-02-TS	68	70	58	65	65	73
460-319275-22	IB-02-CS	78	79	68	75	76	84
460-319275-23	IB-03-TS	98	80	86	77	90	74
460-319275-24	IB-03-CS	76	59	65	60	66	57
460-319275-25	2B-02-TS	70	70	60	64	65	75
460-319275-26	2B-02-CS	69	73	62	69	67	77
460-319275-27	2B-01-TS	66	62	57	61	61	64
460-319275-28	2B-01-CS	92	80	84	79	86	76
460-319275-29	2A-05-TS	67	68	57	63	63	71
460-319275-30	2A-05-CS-4	74	77	66	73	73	83
460-319275-31	2A-05-CS-8	80	81	70	75	75	92
460-319275-32	2A-06-CS-4	64	61	61	59	54	62
460-319275-33	2A-06-CS-8	88	78	83	76	81	77
460-319275-34	2A-07-TS	66	62	53	59	58	65
460-319275-35	2A-07-CS-4	82	83	75	81	79	90
460-319275-36	2A-07-CS-8	69	72	64	68	68	77
LCS 460-1018392/2-A	Lab Control Sample	83	86	78	88	80	84
LCS 460-1023976/2-A	Lab Control Sample	106	89	98	90	98	83
LCSD 460-1018392/3-A	Lab Control Sample Dup	86	87	82	90	83	86
LCSD 460-1023976/3-A	Lab Control Sample Dup	106	91	97	91	96	87
MB 460-1018392/1-A	Method Blank	82	83	77	81	79	84
MB 460-1023976/1-A	Method Blank	101	94	96	94	96	89

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(37-150)	(46-139)	(16-80)	(51-145)	(10-56)	(13-159)
460-319275-1	FB-20250124	65	66	41	71	27	34
LCS 460-1018142/2-A	Lab Control Sample	82	80	45	83	32	61
LCSD 460-1018142/3-A	Lab Control Sample Dup	82	80	45	83	32	61
MB 460-1018142/1-A	Method Blank	87	88	68	89	51	66

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (17-150)	DCBP2 (17-150)	TCX1 (21-150)	TCX2 (21-150)
460-319275-3	4-01-TS	59	64	92	97
460-319275-4	4-01-CS	55	58	85	87
460-319275-5	4-04-CS-4	108	111	93	93
460-319275-6	4-04-CS-8	93	104	84	86
460-319275-7	4-03-TS	25	29	43	46
460-319275-8	4-03-CS-4	43	47	68	71
460-319275-9	4-03-CS-8	56	60	88	92
460-319275-10	IB-01-TS	61	72	53	53
460-319275-11	IB-01-CS	78	76	69	71
460-319275-12	Dup-04	75	85	67	70
460-319275-13	IB-05-CS-4	60	64	91	95
460-319275-13 MS	IB-05-CS-4	51	55	79	80
460-319275-13 MSD	IB-05-CS-4	56	56	85	80
460-319275-14	IB-05-CS-8	47	49	73	77
460-319275-15	IB-04-CS-4	110	122	97	91
460-319275-15 MS	IB-04-CS-4	93	105	83	85
460-319275-15 MSD	IB-04-CS-4	83	96	75	77
460-319275-16	IB-04-CS-8	89	98	79	79
460-319275-17	IB-06-TS	44	42	65	60
460-319275-18	IB-06-CS-4	50	44	69	57
460-319275-19	IB-06-CS-8	39	41	92	216 S1+
460-319275-20	Dup-05	61	64	117	202 S1+
460-319275-21	IB-02-TS	114	123	86	92
460-319275-22	IB-02-CS	78	82	65	68
460-319275-23	IB-03-TS	45	48	85	151 S1+
460-319275-24	IB-03-CS	70	74	113	162 S1+
460-319275-25	2B-02-TS	110	119	91	96
460-319275-26	2B-02-CS	111	128	104	106
460-319275-27	2B-01-TS	77	83	124	165 S1+
460-319275-28	2B-01-CS	79	71	114	118
460-319275-29	2A-05-TS	107	113	88	92
460-319275-30	2A-05-CS-4	96	105	87	89
460-319275-31	2A-05-CS-8	120	135	106	109
460-319275-32	2A-06-CS-4	54	57	87	107
460-319275-33	2A-06-CS-8	66	71	107	129
460-319275-34	2A-07-TS	126	139	103	114
460-319275-35	2A-07-CS-4	121	133	107	113
460-319275-36	2A-07-CS-8	113	123	98	102
LCS 460-1018341/2-A	Lab Control Sample	84	93	78	73
LCS 460-1024268/2-A	Lab Control Sample	49	52	76	77
LCSD 460-1018341/3-A	Lab Control Sample Dup	87	98	84	83
LCSD 460-1024268/3-A	Lab Control Sample Dup	46	50	74	75
MB 460-1018341/1-A	Method Blank	110	117	94	97
MB 460-1024268/1-A	Method Blank	54	56	85	85

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (34-120)	TCX2 (34-120)	DCBP1 (30-131)	DCBP2 (30-131)
460-319275-1	FB-20250124	95	101	68	79
LCS 460-1018144/2-A	Lab Control Sample	82	77	51	57
LCSD 460-1018144/3-A	Lab Control Sample Dup	82	76	51	60
MB 460-1018144/1-A	Method Blank	91	98	82	95

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (20-150)	DCBP2 (20-150)	TCX1 (20-150)	TCX2 (20-150)
460-319275-3	4-01-TS	67	61	121	92
460-319275-4	4-01-CS	54	49	102	81
460-319275-5	4-04-CS-4	90	93	76	75
460-319275-6	4-04-CS-8	102	116	95	95
460-319275-7	4-03-TS	28	25	57	44
460-319275-8	4-03-CS-4	46	40	87	66
460-319275-9	4-03-CS-8	60	53	113	85
460-319275-10	IB-01-TS	114	118	98	98
460-319275-11	IB-01-CS	88	146	85	84
460-319275-12	Dup-04	120	110	98	97
460-319275-13	IB-05-CS-4	65	55	116	88
460-319275-13 MS	IB-05-CS-4	67	58	122	93
460-319275-13 MSD	IB-05-CS-4	66	56	121	90
460-319275-14	IB-05-CS-8	51	44	97	74
460-319275-15	IB-04-CS-4	103	105	93	94
460-319275-15 MS	IB-04-CS-4	99	112	94	92
460-319275-15 MSD	IB-04-CS-4	96	95	86	84
460-319275-16	IB-04-CS-8	101	98	87	86
460-319275-17	IB-06-TS	62	54	111	84
460-319275-18	IB-06-CS-4	68	59	124	94
460-319275-19	IB-06-CS-8	46	40	84	64
460-319275-20	Dup-05	61	56	113	86
460-319275-21	IB-02-TS	140	111	82	83
460-319275-22	IB-02-CS	110	114	94	94
460-319275-23	IB-03-TS	51	44	91	69
460-319275-24	IB-03-CS	73	68	133	103
460-319275-25	2B-02-TS	126	114	91	91
460-319275-26	2B-02-CS	106	129	100	101
460-319275-27	2B-01-TS	84	73	147	110
460-319275-28	2B-01-CS	69	62	121	92
460-319275-29	2A-05-TS	106	116	96	96
460-319275-30	2A-05-CS-4	89	105	82	82

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (20-150)	DCBP2 (20-150)	TCX1 (20-150)	TCX2 (20-150)
460-319275-31	2A-05-CS-8	112	133	98	98
460-319275-32	2A-06-CS-4	51	49	96	74
460-319275-33	2A-06-CS-8	64	56	115	87
460-319275-34	2A-07-TS	116	125	94	95
460-319275-35	2A-07-CS-4	112	131	97	97
460-319275-36	2A-07-CS-8	99	123	94	95
LCS 460-1018342/2-A	Lab Control Sample	90	110	84	83
LCS 460-1024266/2-A	Lab Control Sample	60	54	113	85
LCSD 460-1018342/3-A	Lab Control Sample Dup	89	107	84	83
LCSD 460-1024266/3-A	Lab Control Sample Dup	66	61	119	91
MB 460-1018342/1-A	Method Blank	102	109	95	97
MB 460-1024266/1-A	Method Blank	72	63	129	98

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (18-145)	DCBP2 (18-145)	TCX1 (21-124)	TCX2 (21-124)
460-319275-1	FB-20250124	60	65	81	83
LCS 460-1018145/2-A	Lab Control Sample	90	94	126 S1+	131 S1+
LCSD 460-1018145/3-A	Lab Control Sample Dup	90	96	125 S1+	132 S1+
MB 460-1018145/1-A	Method Blank	90	97	124	132 S1+

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	OTPH1 (40-140)	FBP1 (40-140)	2BN1 (40-140)	1COD1 (40-140)
460-319229-H-11-J MS	Matrix Spike	58	76	79	57
460-319229-H-11-K MSD	Matrix Spike Duplicate	54	87	88	49
460-319264-E-3-A MS	Matrix Spike	83	101	98	53
460-319264-E-3-B MSD	Matrix Spike Duplicate	70	85	83	56
460-319275-3	4-01-TS	54	76	80	
460-319275-3	4-01-TS				71
460-319275-4	4-01-CS	74	88	92	57
460-319275-5	4-04-CS-4	95	92	94	75
460-319275-6	4-04-CS-8	87	94	94	86
460-319275-7	4-03-TS	49	83	84	46
460-319275-8	4-03-CS-4	68	82	84	57
460-319275-9	4-03-CS-8	79	79	83	62
460-319275-10	IB-01-TS	57	77	77	57
460-319275-11	IB-01-CS	82	85	82	87

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319275-1
Project/Site: Manchester LF JR0312

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	OTPH1 (40-140)	FBP1 (40-140)	2BN1 (40-140)	1COD1 (40-140)
460-319275-12	Dup-04	83	88	88	80
460-319275-13	IB-05-CS-4				50
460-319275-13	IB-05-CS-4	67	86	75	
460-319275-13 MS	IB-05-CS-4				64
460-319275-13 MS	IB-05-CS-4	67	92	68	
460-319275-13 MSD	IB-05-CS-4				62
460-319275-13 MSD	IB-05-CS-4	58	91	67	
460-319275-14	IB-05-CS-8				51
460-319275-14	IB-05-CS-8	72	85	77	
460-319275-15	IB-04-CS-4	84	92	91	82
460-319275-15 MS	IB-04-CS-4	78	79	81	71
460-319275-15 MSD	IB-04-CS-4	78	81	81	75
460-319275-16	IB-04-CS-8	74	83	83	69
460-319275-17	IB-06-TS				46
460-319275-17	IB-06-TS	63	78	71	
460-319275-18	IB-06-CS-4				45
460-319275-18	IB-06-CS-4	64	80	77	
460-319275-19	IB-06-CS-8				49
460-319275-19	IB-06-CS-8	72	85	74	
460-319275-20	Dup-05				46
460-319275-20	Dup-05	69	84	75	
460-319275-21	IB-02-TS	66	92	86	68
460-319275-22	IB-02-CS	75	83	80	77
460-319275-23	IB-03-TS				49
460-319275-23	IB-03-TS	66	82	74	
460-319275-24	IB-03-CS				49
460-319275-24	IB-03-CS	61	76	68	
460-319275-25	2B-02-TS	78	92	87	74
460-319275-26	2B-02-CS	77	92	89	76
460-319275-27	2B-01-TS				45
460-319275-27	2B-01-TS	59	78	68	
460-319275-28	2B-01-CS				49
460-319275-28	2B-01-CS	67	84	74	
460-319275-29	2A-05-TS	79	87	82	83
460-319275-30	2A-05-CS-4	90	98	94	79
460-319275-31	2A-05-CS-8	107	102	98	91
460-319275-32	2A-06-CS-4				42
460-319275-32	2A-06-CS-4	64	89	79	
460-319275-33	2A-06-CS-8				49
460-319275-33	2A-06-CS-8	63	82	69	
460-319275-34	2A-07-TS	81	84	82	75
460-319275-35	2A-07-CS-4	91	84	83	89
460-319275-36	2A-07-CS-8	80	93	85	79
LCS 460-1018559/2-A	Lab Control Sample	89	86	87	67
LCS 460-1018684/2-A	Lab Control Sample	78	84	85	69
LCS 460-1024433/2-A	Lab Control Sample	80	83	84	73
LCS 460-1024577/2-A	Lab Control Sample				67
LCS 460-1024577/2-A	Lab Control Sample	77	106	76	
LCSD 460-1018559/3-A	Lab Control Sample Dup	89	90	91	67
LCSD 460-1018684/3-A	Lab Control Sample Dup	89	95	97	

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319275-1
Project/Site: Manchester LF JR0312

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	OTPH1 (40-140)	FBP1 (40-140)	2BN1 (40-140)	1COD1 (40-140)
LCSD 460-1018684/3-A	Lab Control Sample Dup				87
LCSD 460-1024433/3-A	Lab Control Sample Dup	83	83	85	72
LCSD 460-1024577/3-A	Lab Control Sample Dup	77	99	74	66
MB 460-1018559/1-A	Method Blank	119	97	97	98
MB 460-1018684/1-A	Method Blank	77	86	87	79
MB 460-1024433/1-A	Method Blank	89	90	92	71
MB 460-1024577/1-A	Method Blank				48
MB 460-1024577/1-A	Method Blank	66	99	72	

Surrogate Legend

OTPH = o-Terphenyl
FBP = 2-Fluorobiphenyl
2BN = 2-Bromonaphthalene
1COD = 1-Chlorooctadecane

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH1 (40-140)	1COD1 (40-140)
460-319275-1	FB-20250124	97	72
LCS 460-1018533/2-A	Lab Control Sample	113	107
LCSD 460-1018533/3-A	Lab Control Sample Dup	92	79
MB 460-1018533/1-A	Method Blank	88	48

Surrogate Legend

OTPH = o-Terphenyl
1COD = 1-Chlorooctadecane

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-1018092/1-A
Matrix: Solid
Analysis Batch: 1018633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/25/25 11:05	01/29/25 21:05	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-1018092/1-A
Matrix: Solid
Analysis Batch: 1018633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg		01/25/25 11:05	01/29/25 21:05	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg		01/25/25 11:05	01/29/25 21:05	1

Tentatively Identified Compound	*LB3 Est. Result*	*LB3 Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*01/25/25 11:05*	*01/29/25 21:05*	*1*

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 138*	*01/25/25 11:05*	*01/29/25 21:05*	*1*
4-Bromofluorobenzene	*84*		*71 - 128*	*01/25/25 11:05*	*01/29/25 21:05*	*1*
Dibromofluoromethane (Surr)	*113*		*50 - 150*	*01/25/25 11:05*	*01/29/25 21:05*	*1*
Toluene-d8 (Surr)	*90*		*71 - 126*	*01/25/25 11:05*	*01/29/25 21:05*	*1*

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.00025	U H	0.0271	0.0250	H	mg/Kg	☼	92	78 - 120
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0271	0.0221	H	mg/Kg	☼	81	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U H	0.0271	0.0281	H	mg/Kg	☼	104	75 - 121
1,1,2-Trichloroethane	0.00019	U H	0.0271	0.0228	H	mg/Kg	☼	84	80 - 120
1,1-Dichloroethane	0.00022	U H	0.0271	0.0262	H	mg/Kg	☼	96	72 - 120
1,1-Dichloroethene	0.00024	U H	0.0271	0.0273	H	mg/Kg	☼	100	76 - 120
1,2,3-Trichlorobenzene	0.00019	U H F1 F2	0.0271	0.0185	H F1	mg/Kg	☼	68	77 - 137
1,2,4-Trichlorobenzene	0.00038	U H F1	0.0271	0.0187	H F1	mg/Kg	☼	69	77 - 136
1,2-Dibromo-3-Chloropropane	0.00049	U H F1 *-	0.0271	0.0156	H F1	mg/Kg	☼	58	80 - 124
1,2-Dibromoethane	0.00019	U H F1	0.0271	0.0196	H F1	mg/Kg	☼	72	79 - 120
1,2-Dichlorobenzene	0.00038	U H F2	0.0271	0.0223	H	mg/Kg	☼	82	80 - 120
1,2-Dichloroethane	0.00031	U H	0.0271	0.0211	H	mg/Kg	☼	78	70 - 123
1,2-Dichloropropane	0.00045	U H	0.0271	0.0244	H	mg/Kg	☼	90	73 - 124
1,3-Dichlorobenzene	0.00038	U H F2	0.0271	0.0232	H	mg/Kg	☼	86	80 - 120
1,4-Dichlorobenzene	0.00024	U H F2	0.0271	0.0231	H	mg/Kg	☼	85	80 - 120
2-Butanone (MEK)	0.00039	U H	0.136	0.117	H	mg/Kg	☼	86	64 - 128
2-Hexanone	0.0018	U H F1	0.136	0.100	H F1	mg/Kg	☼	74	75 - 120
4-Methyl-2-pentanone (MIBK)	0.0016	U H	0.136	0.114	H	mg/Kg	☼	84	80 - 120
Acetone	0.0099	H	0.136	0.123	H	mg/Kg	☼	83	58 - 122
Benzene	0.00027	U H	0.0271	0.0269	H	mg/Kg	☼	99	75 - 120
Bromodichloromethane	0.00027	U H	0.0271	0.0226	H	mg/Kg	☼	83	77 - 124
Bromoform	0.00045	U H F1	0.0271	0.0159	H F1	mg/Kg	☼	59	61 - 125
Bromomethane	0.0011	U H F1 *+	0.0271	0.0816	H F1	mg/Kg	☼	301	37 - 150
Carbon disulfide	0.00028	U H	0.0271	0.0264	H	mg/Kg	☼	97	57 - 133
Carbon tetrachloride	0.00041	U H	0.0271	0.0226	H	mg/Kg	☼	83	66 - 127
Chlorobenzene	0.00019	U H	0.0271	0.0232	H	mg/Kg	☼	85	80 - 120
Chlorobromomethane	0.00030	U H	0.0271	0.0221	H	mg/Kg	☼	82	76 - 127
Chloroethane	0.00055	U H	0.0271	0.0287	H	mg/Kg	☼	106	60 - 123
Chloroform	0.0010	U H	0.0271	0.0255	H	mg/Kg	☼	94	79 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	0.00046	U H	0.0271	0.0274	H	mg/Kg	☼	101	46 - 122
cis-1,2-Dichloroethene	0.00038	U H	0.0271	0.0251	H	mg/Kg	☼	92	80 - 123
cis-1,3-Dichloropropene	0.00029	U H	0.0271	0.0224	H	mg/Kg	☼	82	75 - 120
Cyclohexane	0.00023	U H	0.0271	0.0260	H	mg/Kg	☼	96	65 - 132
Dibromochloromethane	0.00020	U H F1	0.0271	0.0194	H F1	mg/Kg	☼	71	72 - 120
Dichlorodifluoromethane	0.00036	U H	0.0271	0.0242	H	mg/Kg	☼	89	45 - 129
Ethylbenzene	0.00021	U H F2	0.0271	0.0237	H	mg/Kg	☼	87	80 - 120
Isopropylbenzene	0.00030	U H	0.0271	0.0231	H	mg/Kg	☼	85	74 - 120
Methyl acetate	0.0045	U H F1	0.0543	0.0748	H F1	mg/Kg	☼	138	57 - 120
Methyl tert-butyl ether	0.00054	U H	0.0271	0.0214	H	mg/Kg	☼	79	74 - 125
Methylcyclohexane	0.00053	U H	0.0271	0.0233	H	mg/Kg	☼	86	66 - 125
Methylene Chloride	0.0012	U H	0.0271	0.0239	H	mg/Kg	☼	88	78 - 120
m-Xylene & p-Xylene	0.00018	U H F2 F1	0.0271	0.0222	H	mg/Kg	☼	82	80 - 120
o-Xylene	0.00020	U H	0.0271	0.0228	H	mg/Kg	☼	84	80 - 120
Styrene	0.00029	U H	0.0271	0.0217	H	mg/Kg	☼	80	80 - 120
Tetrachloroethene	0.00032	U H	0.0271	0.0223	H	mg/Kg	☼	82	73 - 120
Toluene	0.00025	U H	0.0271	0.0256	H	mg/Kg	☼	94	80 - 120
trans-1,2-Dichloroethene	0.00026	U H	0.0271	0.0262	H	mg/Kg	☼	96	78 - 120
trans-1,3-Dichloropropene	0.00028	U H F1	0.0271	0.0202	H F1	mg/Kg	☼	74	77 - 120
Trichloroethene	0.00034	U H	0.0271	0.0244	H	mg/Kg	☼	90	80 - 120
Trichlorofluoromethane	0.00043	U H	0.0271	0.0263	H	mg/Kg	☼	97	61 - 130
Vinyl chloride	0.00058	U H	0.0271	0.0320	H	mg/Kg	☼	118	54 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 138*
4-Bromofluorobenzene	*97*		*71 - 128*
Dibromofluoromethane (Surr)	*105*		*50 - 150*
Toluene-d8 (Surr)	*106*		*71 - 126*

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.00025	U H	0.0201	0.0185	H	mg/Kg	☼	92	78 - 120	30	30
1,1,2,2-Tetrachloroethane	0.00023	U H	0.0201	0.0178	H	mg/Kg	☼	88	70 - 133	22	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00032	U H	0.0201	0.0215	H	mg/Kg	☼	107	75 - 121	26	30
1,1,2-Trichloroethane	0.00019	U H	0.0201	0.0174	H	mg/Kg	☼	87	80 - 120	27	30
1,1-Dichloroethane	0.00022	U H	0.0201	0.0198	H	mg/Kg	☼	99	72 - 120	27	30
1,1-Dichloroethene	0.00024	U H	0.0201	0.0207	H	mg/Kg	☼	103	76 - 120	27	30
1,2,3-Trichlorobenzene	0.00019	U H F1 F2	0.0201	0.0132	H F1 F2	mg/Kg	☼	66	77 - 137	33	30
1,2,4-Trichlorobenzene	0.00038	U H F1	0.0201	0.0141	H F1	mg/Kg	☼	70	77 - 136	28	30
1,2-Dibromo-3-Chloropropane	0.00049	U H F1 *-	0.0201	0.0131	H F1	mg/Kg	☼	65	80 - 124	18	30
1,2-Dibromoethane	0.00019	U H F1	0.0201	0.0153	H F1	mg/Kg	☼	76	79 - 120	25	30
1,2-Dichlorobenzene	0.00038	U H F2	0.0201	0.0164	H F2	mg/Kg	☼	82	80 - 120	31	30
1,2-Dichloroethane	0.00031	U H	0.0201	0.0163	H	mg/Kg	☼	81	70 - 123	26	30
1,2-Dichloropropane	0.00045	U H	0.0201	0.0188	H	mg/Kg	☼	94	73 - 124	26	30
1,3-Dichlorobenzene	0.00038	U H F2	0.0201	0.0170	H F2	mg/Kg	☼	84	80 - 120	31	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.00024	U H F2	0.0201	0.0169	H F2	mg/Kg	☼	84	80 - 120	31	30
2-Butanone (MEK)	0.00039	U H	0.100	0.0858	H	mg/Kg	☼	85	64 - 128	30	30
2-Hexanone	0.0018	U H F1	0.100	0.0760	H	mg/Kg	☼	76	75 - 120	28	30
4-Methyl-2-pentanone (MIBK)	0.0016	U H	0.100	0.0837	H	mg/Kg	☼	83	80 - 120	30	30
Acetone	0.0099	H	0.100	0.0944	H	mg/Kg	☼	84	58 - 122	26	30
Benzene	0.00027	U H	0.0201	0.0201	H	mg/Kg	☼	100	75 - 120	29	30
Bromodichloromethane	0.00027	U H	0.0201	0.0174	H	mg/Kg	☼	87	77 - 124	26	30
Bromoform	0.00045	U H F1	0.0201	0.0124	H	mg/Kg	☼	62	61 - 125	25	30
Bromomethane	0.0011	U H F1 *+	0.0201	0.0608	H F1	mg/Kg	☼	303	37 - 150	29	30
Carbon disulfide	0.00028	U H	0.0201	0.0197	H	mg/Kg	☼	98	57 - 133	29	30
Carbon tetrachloride	0.00041	U H	0.0201	0.0170	H	mg/Kg	☼	85	66 - 127	28	30
Chlorobenzene	0.00019	U H	0.0201	0.0172	H	mg/Kg	☼	86	80 - 120	29	30
Chlorobromomethane	0.00030	U H	0.0201	0.0171	H	mg/Kg	☼	85	76 - 127	26	30
Chloroethane	0.00055	U H	0.0201	0.0215	H	mg/Kg	☼	107	60 - 123	29	30
Chloroform	0.0010	U H	0.0201	0.0192	H	mg/Kg	☼	95	79 - 126	29	30
Chloromethane	0.00046	U H	0.0201	0.0214	H	mg/Kg	☼	107	46 - 122	24	30
cis-1,2-Dichloroethene	0.00038	U H	0.0201	0.0189	H	mg/Kg	☼	94	80 - 123	28	30
cis-1,3-Dichloropropene	0.00029	U H	0.0201	0.0175	H	mg/Kg	☼	87	75 - 120	25	30
Cyclohexane	0.00023	U H	0.0201	0.0194	H	mg/Kg	☼	97	65 - 132	29	30
Dibromochloromethane	0.00020	U H F1	0.0201	0.0147	H	mg/Kg	☼	73	72 - 120	28	30
Dichlorodifluoromethane	0.00036	U H	0.0201	0.0192	H	mg/Kg	☼	95	45 - 129	23	30
Ethylbenzene	0.00021	U H F2	0.0201	0.0174	H F2	mg/Kg	☼	87	80 - 120	31	30
Isopropylbenzene	0.00030	U H	0.0201	0.0172	H	mg/Kg	☼	86	74 - 120	29	30
Methyl acetate	0.0045	U H F1	0.0402	0.0600	H F1	mg/Kg	☼	149	57 - 120	22	30
Methyl tert-butyl ether	0.00054	U H	0.0201	0.0172	H	mg/Kg	☼	86	74 - 125	22	30
Methylcyclohexane	0.00053	U H	0.0201	0.0178	H	mg/Kg	☼	88	66 - 125	27	30
Methylene Chloride	0.0012	U H	0.0201	0.0184	H	mg/Kg	☼	91	78 - 120	26	30
m-Xylene & p-Xylene	0.00018	U H F2 F1	0.0201	0.0159	H F1 F2	mg/Kg	☼	79	80 - 120	33	30
o-Xylene	0.00020	U H	0.0201	0.0172	H	mg/Kg	☼	86	80 - 120	28	30
Styrene	0.00029	U H	0.0201	0.0162	H	mg/Kg	☼	81	80 - 120	29	30
Tetrachloroethene	0.00032	U H	0.0201	0.0168	H	mg/Kg	☼	84	73 - 120	28	30
Toluene	0.00025	U H	0.0201	0.0189	H	mg/Kg	☼	94	80 - 120	30	30
trans-1,2-Dichloroethene	0.00026	U H	0.0201	0.0199	H	mg/Kg	☼	99	78 - 120	27	30
trans-1,3-Dichloropropene	0.00028	U H F1	0.0201	0.0158	H	mg/Kg	☼	79	77 - 120	24	30
Trichloroethene	0.00034	U H	0.0201	0.0182	H	mg/Kg	☼	91	80 - 120	29	30
Trichlorofluoromethane	0.00043	U H	0.0201	0.0207	H	mg/Kg	☼	103	61 - 130	24	30
Vinyl chloride	0.00058	U H	0.0201	0.0245	H	mg/Kg	☼	122	54 - 122	27	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*
4-Bromofluorobenzene	*99*		*71 - 128*
Dibromofluoromethane (Surr)	*107*		*50 - 150*
Toluene-d8 (Surr)	*107*		*71 - 126*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.00026	U F1	0.0232	0.0177	F1	mg/Kg	☼	76	78 - 120
1,1,2,2-Tetrachloroethane	0.00024	U	0.0232	0.0198		mg/Kg	☼	86	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0232	0.0266		mg/Kg	☼	115	75 - 121
1,1,2-Trichloroethane	0.00020	U	0.0232	0.0191		mg/Kg	☼	82	80 - 120
1,1-Dichloroethane	0.00023	U	0.0232	0.0180		mg/Kg	☼	78	72 - 120
1,1-Dichloroethene	0.00025	U F1	0.0232	0.0277		mg/Kg	☼	119	76 - 120
1,2,3-Trichlorobenzene	0.00020	U F1	0.0232	0.0175	F1	mg/Kg	☼	75	77 - 137
1,2,4-Trichlorobenzene	0.00040	U F1	0.0232	0.0173	F1	mg/Kg	☼	75	77 - 136
1,2-Dibromo-3-Chloropropane	0.00052	U *+	0.0232	0.0202		mg/Kg	☼	87	80 - 124
1,2-Dibromoethane	0.00020	U	0.0232	0.0198		mg/Kg	☼	85	79 - 120
1,2-Dichlorobenzene	0.00041	U	0.0232	0.0195		mg/Kg	☼	84	80 - 120
1,2-Dichloroethane	0.00033	U F1	0.0232	0.0161	F1	mg/Kg	☼	69	70 - 123
1,2-Dichloropropane	0.00048	U	0.0232	0.0186		mg/Kg	☼	80	73 - 124
1,3-Dichlorobenzene	0.00041	U	0.0232	0.0193		mg/Kg	☼	83	80 - 120
1,4-Dichlorobenzene	0.00025	U	0.0232	0.0198		mg/Kg	☼	85	80 - 120
2-Butanone (MEK)	0.00042	U	0.116	0.0840		mg/Kg	☼	72	64 - 128
2-Hexanone	0.0019	U F1 *-	0.116	0.0817	F1	mg/Kg	☼	70	75 - 120
4-Methyl-2-pentanone (MIBK)	0.0018	U F1 *-	0.116	0.0841	F1	mg/Kg	☼	72	80 - 120
Acetone	0.0092		0.116	0.0923		mg/Kg	☼	72	58 - 122
Benzene	0.00029	U	0.0232	0.0193		mg/Kg	☼	83	75 - 120
Bromodichloromethane	0.00029	U	0.0232	0.0181		mg/Kg	☼	78	77 - 124
Bromoform	0.00048	U	0.0232	0.0187		mg/Kg	☼	81	61 - 125
Bromomethane	0.0011	U *+	0.0232	0.0305		mg/Kg	☼	131	37 - 150
Carbon disulfide	0.00030	U	0.0232	0.0257		mg/Kg	☼	111	57 - 133
Carbon tetrachloride	0.00044	U	0.0232	0.0174		mg/Kg	☼	75	66 - 127
Chlorobenzene	0.00020	U	0.0232	0.0195		mg/Kg	☼	84	80 - 120
Chlorobromomethane	0.00032	U *+	0.0232	0.0241		mg/Kg	☼	104	76 - 127
Chloroethane	0.00059	U	0.0232	0.0208		mg/Kg	☼	90	60 - 123
Chloroform	0.0011	U	0.0232	0.0187		mg/Kg	☼	80	79 - 126
Chloromethane	0.00049	U	0.0232	0.0177		mg/Kg	☼	76	46 - 122
cis-1,2-Dichloroethene	0.00040	U	0.0232	0.0214		mg/Kg	☼	92	80 - 123
cis-1,3-Dichloropropene	0.00031	U	0.0232	0.0178		mg/Kg	☼	77	75 - 120
Cyclohexane	0.00025	U	0.0232	0.0219		mg/Kg	☼	94	65 - 132
Dibromochloromethane	0.00022	U	0.0232	0.0184		mg/Kg	☼	79	72 - 120
Dichlorodifluoromethane	0.00038	U	0.0232	0.0163		mg/Kg	☼	70	45 - 129
Ethylbenzene	0.00022	U	0.0232	0.0201		mg/Kg	☼	87	80 - 120
Isopropylbenzene	0.00032	U	0.0232	0.0182		mg/Kg	☼	79	74 - 120
Methyl acetate	0.0049	U *+	0.0464	0.0445		mg/Kg	☼	96	57 - 120
Methyl tert-butyl ether	0.00058	U	0.0232	0.0186		mg/Kg	☼	80	74 - 125
Methylcyclohexane	0.00056	U	0.0232	0.0210		mg/Kg	☼	91	66 - 125
Methylene Chloride	0.0013	U	0.0232	0.0244		mg/Kg	☼	105	78 - 120
m-Xylene & p-Xylene	0.00030	J	0.0232	0.0198		mg/Kg	☼	84	80 - 120
o-Xylene	0.00025	J	0.0232	0.0200		mg/Kg	☼	85	80 - 120
Styrene	0.00031	U	0.0232	0.0195		mg/Kg	☼	84	80 - 120
Tetrachloroethene	0.00034	U	0.0232	0.0202		mg/Kg	☼	87	73 - 120
Toluene	0.00026	U	0.0232	0.0192		mg/Kg	☼	83	80 - 120
trans-1,2-Dichloroethene	0.00028	U	0.0232	0.0215		mg/Kg	☼	93	78 - 120
trans-1,3-Dichloropropene	0.00030	U F1	0.0232	0.0171	F1	mg/Kg	☼	74	77 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	0.00036	U	0.0232	0.0202		mg/Kg	☼	87	80 - 120
Trichlorofluoromethane	0.00046	U	0.0232	0.0187		mg/Kg	☼	81	61 - 130
Vinyl chloride	0.00062	U	0.0232	0.0228		mg/Kg	☼	98	54 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*65 - 138*
4-Bromofluorobenzene	*91*		*71 - 128*
Dibromofluoromethane (Surr)	*92*		*50 - 150*
Toluene-d8 (Surr)	*82*		*71 - 126*

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.00026	U F1	0.0243	0.0196		mg/Kg	☼	81	78 - 120	10	30
1,1,2,2-Tetrachloroethane	0.00024	U	0.0243	0.0219		mg/Kg	☼	90	70 - 133	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0243	0.0289		mg/Kg	☼	119	75 - 121	8	30
1,1,2-Trichloroethane	0.00020	U	0.0243	0.0218		mg/Kg	☼	90	80 - 120	13	30
1,1-Dichloroethane	0.00023	U	0.0243	0.0199		mg/Kg	☼	82	72 - 120	10	30
1,1-Dichloroethene	0.00025	U F1	0.0243	0.0305	F1	mg/Kg	☼	125	76 - 120	10	30
1,2,3-Trichlorobenzene	0.00020	U F1	0.0243	0.0200		mg/Kg	☼	82	77 - 137	13	30
1,2,4-Trichlorobenzene	0.00040	U F1	0.0243	0.0201		mg/Kg	☼	83	77 - 136	15	30
1,2-Dibromo-3-Chloropropane	0.00052	U *+	0.0243	0.0235		mg/Kg	☼	97	80 - 124	15	30
1,2-Dibromoethane	0.00020	U	0.0243	0.0222		mg/Kg	☼	91	79 - 120	12	30
1,2-Dichlorobenzene	0.00041	U	0.0243	0.0216		mg/Kg	☼	89	80 - 120	10	30
1,2-Dichloroethane	0.00033	U F1	0.0243	0.0184		mg/Kg	☼	76	70 - 123	13	30
1,2-Dichloropropane	0.00048	U	0.0243	0.0204		mg/Kg	☼	84	73 - 124	9	30
1,3-Dichlorobenzene	0.00041	U	0.0243	0.0219		mg/Kg	☼	90	80 - 120	13	30
1,4-Dichlorobenzene	0.00025	U	0.0243	0.0221		mg/Kg	☼	91	80 - 120	11	30
2-Butanone (MEK)	0.00042	U	0.122	0.0976		mg/Kg	☼	80	64 - 128	15	30
2-Hexanone	0.0019	U F1 *-	0.122	0.0911		mg/Kg	☼	75	75 - 120	11	30
4-Methyl-2-pentanone (MIBK)	0.0018	U F1 *-	0.122	0.0924	F1	mg/Kg	☼	76	80 - 120	9	30
Acetone	0.0092		0.122	0.105		mg/Kg	☼	79	58 - 122	13	30
Benzene	0.00029	U	0.0243	0.0215		mg/Kg	☼	88	75 - 120	11	30
Bromodichloromethane	0.00029	U	0.0243	0.0202		mg/Kg	☼	83	77 - 124	11	30
Bromoform	0.00048	U	0.0243	0.0213		mg/Kg	☼	88	61 - 125	13	30
Bromomethane	0.0011	U *+	0.0243	0.0365		mg/Kg	☼	150	37 - 150	18	30
Carbon disulfide	0.00030	U	0.0243	0.0280		mg/Kg	☼	115	57 - 133	9	30
Carbon tetrachloride	0.00044	U	0.0243	0.0189		mg/Kg	☼	78	66 - 127	8	30
Chlorobenzene	0.00020	U	0.0243	0.0222		mg/Kg	☼	91	80 - 120	13	30
Chlorobromomethane	0.00032	U *+	0.0243	0.0269		mg/Kg	☼	111	76 - 127	11	30
Chloroethane	0.00059	U	0.0243	0.0255		mg/Kg	☼	105	60 - 123	20	30
Chloroform	0.0011	U	0.0243	0.0208		mg/Kg	☼	85	79 - 126	11	30
Chloromethane	0.00049	U	0.0243	0.0213		mg/Kg	☼	88	46 - 122	19	30
cis-1,2-Dichloroethene	0.00040	U	0.0243	0.0239		mg/Kg	☼	98	80 - 123	11	30
cis-1,3-Dichloropropene	0.00031	U	0.0243	0.0202		mg/Kg	☼	83	75 - 120	13	30
Cyclohexane	0.00025	U	0.0243	0.0237		mg/Kg	☼	98	65 - 132	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibromochloromethane	0.00022	U	0.0243	0.0205		mg/Kg	☼	84	72 - 120	11	30
Dichlorodifluoromethane	0.00038	U	0.0243	0.0200		mg/Kg	☼	82	45 - 129	21	30
Ethylbenzene	0.00022	U	0.0243	0.0223		mg/Kg	☼	92	80 - 120	11	30
Isopropylbenzene	0.00032	U	0.0243	0.0206		mg/Kg	☼	85	74 - 120	12	30
Methyl acetate	0.0049	U *+	0.0487	0.0501		mg/Kg	☼	103	57 - 120	12	30
Methyl tert-butyl ether	0.00058	U	0.0243	0.0207		mg/Kg	☼	85	74 - 125	11	30
Methylcyclohexane	0.00056	U	0.0243	0.0231		mg/Kg	☼	95	66 - 125	9	30
Methylene Chloride	0.0013	U	0.0243	0.0277		mg/Kg	☼	114	78 - 120	13	30
m-Xylene & p-Xylene	0.00030	J	0.0243	0.0218		mg/Kg	☼	88	80 - 120	10	30
o-Xylene	0.00025	J	0.0243	0.0225		mg/Kg	☼	91	80 - 120	11	30
Styrene	0.00031	U	0.0243	0.0222		mg/Kg	☼	91	80 - 120	13	30
Tetrachloroethene	0.00034	U	0.0243	0.0220		mg/Kg	☼	90	73 - 120	9	30
Toluene	0.00026	U	0.0243	0.0217		mg/Kg	☼	89	80 - 120	12	30
trans-1,2-Dichloroethene	0.00028	U	0.0243	0.0239		mg/Kg	☼	98	78 - 120	10	30
trans-1,3-Dichloropropene	0.00030	U F1	0.0243	0.0197		mg/Kg	☼	81	77 - 120	14	30
Trichloroethene	0.00036	U	0.0243	0.0218		mg/Kg	☼	90	80 - 120	8	30
Trichlorofluoromethane	0.00046	U	0.0243	0.0228		mg/Kg	☼	94	61 - 130	20	30
Vinyl chloride	0.00062	U	0.0243	0.0272		mg/Kg	☼	112	54 - 122	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*65 - 138*
4-Bromofluorobenzene	*91*		*71 - 128*
Dibromofluoromethane (Surr)	*93*		*50 - 150*
Toluene-d8 (Surr)	*83*		*71 - 126*

Lab Sample ID: MB 460-1018322/10
Matrix: Water
Analysis Batch: 1018322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/28/25 09:10	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/28/25 09:10	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/28/25 09:10	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/28/25 09:10	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/28/25 09:10	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/28/25 09:10	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/28/25 09:10	1
1,4-Dioxane	28	U	50	28	ug/L			01/28/25 09:10	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/28/25 09:10	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/28/25 09:10	1
Acrolein	2.4	U	4.0	2.4	ug/L			01/28/25 09:10	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/28/25 09:10	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/28/25 09:10	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/28/25 09:10	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/28/25 09:10	1
Acetone	4.4	U	5.0	4.4	ug/L			01/28/25 09:10	1
Benzene	0.20	U	1.0	0.20	ug/L			01/28/25 09:10	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/28/25 09:10	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018322/10
Matrix: Water
Analysis Batch: 1018322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.54	U	1.0	0.54	ug/L			01/28/25 09:10	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/28/25 09:10	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/28/25 09:10	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/28/25 09:10	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/28/25 09:10	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/28/25 09:10	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/28/25 09:10	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/28/25 09:10	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/28/25 09:10	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/28/25 09:10	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/28/25 09:10	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/28/25 09:10	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/28/25 09:10	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/28/25 09:10	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/28/25 09:10	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/28/25 09:10	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/28/25 09:10	1
Styrene	0.42	U	1.0	0.42	ug/L			01/28/25 09:10	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/28/25 09:10	1
Toluene	0.38	U	1.0	0.38	ug/L			01/28/25 09:10	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/28/25 09:10	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/28/25 09:10	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/28/25 09:10	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/28/25 09:10	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/28/25 09:10	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/28/25 09:10	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/28/25 09:10*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 128*		*01/28/25 09:10*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*01/28/25 09:10*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 132*		*01/28/25 09:10*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*01/28/25 09:10*	*1*

Lab Sample ID: LCS 460-1018322/14
Matrix: Water
Analysis Batch: 1018322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	16.5		ug/L		83	72 - 128
1,1,2,2-Tetrachloroethane	20.0	18.9		ug/L		94	63 - 139
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	74 - 125
1,1-Dichloroethane	20.0	18.9		ug/L		95	73 - 130
1,1-Dichloroethene	20.0	15.5		ug/L		78	68 - 133
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	58 - 132
1,2-Dibromoethane	20.0	18.5		ug/L		93	79 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018322/14
Matrix: Water
Analysis Batch: 1018322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	400	277		ug/L		69	42 - 150
1,2-Dichloroethane	20.0	19.5		ug/L		97	66 - 129
1,2-Dichloropropane	20.0	20.2		ug/L		101	72 - 128
Acrolein	40.0	104	*+	ug/L		261	18 - 150
2-Butanone (MEK)	100	74.2		ug/L		74	65 - 142
Acrylonitrile	200	249		ug/L		124	57 - 146
2-Hexanone	100	121		ug/L		121	72 - 134
4-Methyl-2-pentanone (MIBK)	100	117		ug/L		117	77 - 130
Acetone	100	96.1		ug/L		96	60 - 133
Benzene	20.0	19.0		ug/L		95	71 - 126
Bromodichloromethane	20.0	17.3		ug/L		87	76 - 121
Bromoform	20.0	22.6		ug/L		113	58 - 128
Bromomethane	20.0	11.4		ug/L		57	33 - 150
Carbon disulfide	20.0	16.0		ug/L		80	35 - 150
Carbon tetrachloride	20.0	16.4		ug/L		82	65 - 131
Chlorobenzene	20.0	19.1		ug/L		95	80 - 120
Chloroethane	20.0	17.0		ug/L		85	54 - 150
Chloroform	20.0	18.4		ug/L		92	78 - 125
Chloromethane	20.0	21.9		ug/L		110	43 - 149
cis-1,2-Dichloroethene	20.0	16.3		ug/L		82	78 - 121
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	74 - 125
Dibromochloromethane	20.0	19.0		ug/L		95	73 - 121
Dichlorodifluoromethane	20.0	13.3		ug/L		67	38 - 144
Ethylbenzene	20.0	18.4		ug/L		92	78 - 120
Methyl acetate	40.0	52.3		ug/L		131	50 - 147
tert-Butyl alcohol	200	176		ug/L		88	64 - 142
Methyl tert-butyl ether	20.0	19.1		ug/L		95	72 - 131
Methylene Chloride	20.0	17.0		ug/L		85	74 - 127
Styrene	20.0	18.5		ug/L		93	82 - 127
Tetrachloroethene	20.0	19.7		ug/L		99	70 - 127
Toluene	20.0	17.8		ug/L		89	78 - 120
Xylenes, Total	40.0	37.0		ug/L		93	80 - 120
trans-1,2-Dichloroethene	20.0	16.1		ug/L		80	70 - 126
trans-1,3-Dichloropropene	20.0	18.9		ug/L		95	71 - 127
Trichloroethene	20.0	16.3		ug/L		81	73 - 121
Trichlorofluoromethane	20.0	16.2		ug/L		81	62 - 134
Vinyl chloride	20.0	18.2		ug/L		91	55 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 128*
4-Bromofluorobenzene	*118*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 132*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319223-B-1 MS
Matrix: Water
Analysis Batch: 1018322

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.24	U	20.0	16.1		ug/L		80	72 - 128
1,1,2,2-Tetrachloroethane	0.37	U	20.0	18.7		ug/L		93	63 - 139
1,1,2-Trichloroethane	0.20	U F1	20.0	26.7	F1	ug/L		133	74 - 125
1,1-Dichloroethane	0.26	U	20.0	19.2		ug/L		96	73 - 130
1,1-Dichloroethene	0.26	U	20.0	15.5		ug/L		77	68 - 133
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	19.7		ug/L		98	58 - 132
1,2-Dibromoethane	0.50	U	20.0	19.3		ug/L		96	79 - 126
1,4-Dioxane	28	U	400	399		ug/L		100	42 - 150
1,2-Dichloroethane	0.43	U	20.0	19.1		ug/L		96	66 - 129
1,2-Dichloropropane	0.35	U	20.0	19.4		ug/L		97	72 - 128
Acrolein	2.4	U F1 *+	40.0	99.1	F1	ug/L		248	18 - 150
2-Butanone (MEK)	1.9	U	100	80.4		ug/L		80	65 - 142
Acrylonitrile	1.8	U	200	229		ug/L		114	57 - 146
2-Hexanone	1.1	U	100	128		ug/L		128	72 - 134
4-Methyl-2-pentanone (MIBK)	1.3	U	100	124		ug/L		124	77 - 130
Acetone	4.4	U	100	100		ug/L		100	60 - 133
Benzene	0.20	U	20.0	19.0		ug/L		95	71 - 126
Bromodichloromethane	0.34	U	20.0	17.5		ug/L		87	76 - 121
Bromoform	0.54	U	20.0	21.9		ug/L		109	58 - 128
Bromomethane	0.55	U	20.0	15.2		ug/L		76	33 - 150
Carbon disulfide	0.82	U	20.0	15.7		ug/L		79	35 - 150
Carbon tetrachloride	0.21	U	20.0	16.1		ug/L		80	65 - 131
Chlorobenzene	0.38	U	20.0	18.9		ug/L		95	80 - 120
Chloroethane	0.32	U	20.0	17.8		ug/L		89	54 - 150
Chloroform	0.44	J	20.0	18.4		ug/L		90	78 - 125
Chloromethane	0.40	U	20.0	22.4		ug/L		112	43 - 149
cis-1,2-Dichloroethene	4.8		20.0	21.2		ug/L		82	78 - 121
cis-1,3-Dichloropropene	0.22	U	20.0	18.7		ug/L		94	74 - 125
Dibromochloromethane	0.28	U	20.0	19.3		ug/L		97	73 - 121
Dichlorodifluoromethane	0.31	U	20.0	10.1		ug/L		50	38 - 144
Ethylbenzene	0.30	U	20.0	18.4		ug/L		92	78 - 120
Methyl acetate	0.79	U	40.0	47.7		ug/L		119	50 - 147
tert-Butyl alcohol	8.3	U	200	195		ug/L		97	64 - 142
Methyl tert-butyl ether	1.1		20.0	19.2		ug/L		91	72 - 131
Methylene Chloride	0.32	U	20.0	16.8		ug/L		84	74 - 127
Styrene	0.42	U	20.0	18.4		ug/L		92	82 - 127
Tetrachloroethene	390		20.0	343	4	ug/L		-219	70 - 127
Toluene	0.38	U	20.0	17.5		ug/L		87	78 - 120
Xylenes, Total	0.65	U	40.0	37.5		ug/L		94	80 - 120
trans-1,2-Dichloroethene	0.24	U	20.0	16.6		ug/L		83	70 - 126
trans-1,3-Dichloropropene	0.22	U	20.0	18.6		ug/L		93	71 - 127
Trichloroethene	4.7		20.0	20.2		ug/L		78	73 - 121
Trichlorofluoromethane	0.32	U	20.0	12.8		ug/L		64	62 - 134
Vinyl chloride	0.17	U	20.0	17.5		ug/L		87	55 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 128*
4-Bromofluorobenzene	*117*		*76 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319223-B-1 MS
Matrix: Water
Analysis Batch: 1018322

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*93*		*77 - 132*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 460-319223-B-1 MSD
Matrix: Water
Analysis Batch: 1018322

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.24	U	20.0	16.6		ug/L		83	72 - 128	3	30
1,1,2,2-Tetrachloroethane	0.37	U	20.0	18.2		ug/L		91	63 - 139	2	30
1,1,2-Trichloroethane	0.20	U F1	20.0	25.9	F1	ug/L		129	74 - 125	3	30
1,1-Dichloroethane	0.26	U	20.0	18.7		ug/L		93	73 - 130	3	30
1,1-Dichloroethene	0.26	U	20.0	15.7		ug/L		78	68 - 133	1	30
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	19.3		ug/L		96	58 - 132	2	30
1,2-Dibromoethane	0.50	U	20.0	19.6		ug/L		98	79 - 126	2	30
1,4-Dioxane	28	U	400	427		ug/L		107	42 - 150	7	30
1,2-Dichloroethane	0.43	U	20.0	19.4		ug/L		97	66 - 129	1	30
1,2-Dichloropropane	0.35	U	20.0	19.8		ug/L		99	72 - 128	2	30
Acrolein	2.4	U F1 *+	40.0	99.8	F1	ug/L		249	18 - 150	1	30
2-Butanone (MEK)	1.9	U	100	77.0		ug/L		77	65 - 142	4	30
Acrylonitrile	1.8	U	200	240		ug/L		120	57 - 146	5	30
2-Hexanone	1.1	U	100	120		ug/L		120	72 - 134	6	30
4-Methyl-2-pentanone (MIBK)	1.3	U	100	113		ug/L		113	77 - 130	9	30
Acetone	4.4	U	100	95.1		ug/L		95	60 - 133	5	30
Benzene	0.20	U	20.0	18.8		ug/L		94	71 - 126	1	30
Bromodichloromethane	0.34	U	20.0	18.2		ug/L		91	76 - 121	4	30
Bromoform	0.54	U	20.0	21.9		ug/L		110	58 - 128	0	30
Bromomethane	0.55	U	20.0	15.0		ug/L		75	33 - 150	1	30
Carbon disulfide	0.82	U	20.0	15.9		ug/L		80	35 - 150	1	30
Carbon tetrachloride	0.21	U	20.0	16.6		ug/L		83	65 - 131	3	30
Chlorobenzene	0.38	U	20.0	19.1		ug/L		95	80 - 120	1	30
Chloroethane	0.32	U	20.0	18.2		ug/L		91	54 - 150	2	30
Chloroform	0.44	J	20.0	18.3		ug/L		89	78 - 125	0	30
Chloromethane	0.40	U	20.0	22.6		ug/L		113	43 - 149	1	30
cis-1,2-Dichloroethene	4.8		20.0	21.5		ug/L		84	78 - 121	1	30
cis-1,3-Dichloropropene	0.22	U	20.0	18.9		ug/L		95	74 - 125	1	30
Dibromochloromethane	0.28	U	20.0	19.5		ug/L		97	73 - 121	1	30
Dichlorodifluoromethane	0.31	U	20.0	10.2		ug/L		51	38 - 144	1	30
Ethylbenzene	0.30	U	20.0	18.4		ug/L		92	78 - 120	0	30
Methyl acetate	0.79	U	40.0	47.7		ug/L		119	50 - 147	0	30
tert-Butyl alcohol	8.3	U	200	190		ug/L		95	64 - 142	3	30
Methyl tert-butyl ether	1.1		20.0	19.6		ug/L		93	72 - 131	2	30
Methylene Chloride	0.32	U	20.0	16.8		ug/L		84	74 - 127	0	30
Styrene	0.42	U	20.0	18.7		ug/L		93	82 - 127	2	30
Tetrachloroethene	390		20.0	328	4	ug/L		-295	70 - 127	5	30
Toluene	0.38	U	20.0	17.4		ug/L		87	78 - 120	0	30
Xylenes, Total	0.65	U	40.0	36.7		ug/L		92	80 - 120	2	30
trans-1,2-Dichloroethene	0.24	U	20.0	16.3		ug/L		82	70 - 126	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319223-B-1 MSD
Matrix: Water
Analysis Batch: 1018322

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	0.22	U	20.0	18.0		ug/L		90	71 - 127	3	30
Trichloroethene	4.7		20.0	20.3		ug/L		78	73 - 121	0	30
Trichlorofluoromethane	0.32	U	20.0	13.6		ug/L		68	62 - 134	6	30
Vinyl chloride	0.17	U	20.0	16.8		ug/L		84	55 - 144	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 128*
4-Bromofluorobenzene	*114*		*76 - 120*
Dibromofluoromethane (Surr)	*96*		*77 - 132*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 460-1018424/9
Matrix: Water
Analysis Batch: 1018424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/28/25 21:52	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/28/25 21:52	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/28/25 21:52	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/28/25 21:52	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/28/25 21:52	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/28/25 21:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/28/25 21:52	1
1,4-Dioxane	28	U	50	28	ug/L			01/28/25 21:52	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/28/25 21:52	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/28/25 21:52	1
Acrolein	2.4	U	4.0	2.4	ug/L			01/28/25 21:52	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/28/25 21:52	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/28/25 21:52	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/28/25 21:52	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/28/25 21:52	1
Acetone	4.4	U	5.0	4.4	ug/L			01/28/25 21:52	1
Benzene	0.20	U	1.0	0.20	ug/L			01/28/25 21:52	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/28/25 21:52	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/28/25 21:52	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/28/25 21:52	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/28/25 21:52	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/28/25 21:52	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/28/25 21:52	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/28/25 21:52	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/28/25 21:52	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/28/25 21:52	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/28/25 21:52	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/28/25 21:52	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/28/25 21:52	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/28/25 21:52	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/28/25 21:52	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/28/25 21:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018424/9
Matrix: Water
Analysis Batch: 1018424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/28/25 21:52	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/28/25 21:52	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/28/25 21:52	1
Styrene	0.42	U	1.0	0.42	ug/L			01/28/25 21:52	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/28/25 21:52	1
Toluene	0.38	U	1.0	0.38	ug/L			01/28/25 21:52	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/28/25 21:52	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/28/25 21:52	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/28/25 21:52	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/28/25 21:52	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/28/25 21:52	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/28/25 21:52	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		01/28/25 21:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 128		01/28/25 21:52	1
4-Bromofluorobenzene	108		76 - 120		01/28/25 21:52	1
Dibromofluoromethane (Surr)	95		77 - 132		01/28/25 21:52	1
Toluene-d8 (Surr)	96		80 - 120		01/28/25 21:52	1

Lab Sample ID: LCS 460-1018424/4
Matrix: Water
Analysis Batch: 1018424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	16.1		ug/L		80	72 - 128
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		93	63 - 139
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	74 - 125
1,1-Dichloroethane	20.0	18.9		ug/L		95	73 - 130
1,1-Dichloroethene	20.0	15.0		ug/L		75	68 - 133
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	58 - 132
1,2-Dibromoethane	20.0	19.7		ug/L		99	79 - 126
1,4-Dioxane	400	446		ug/L		112	42 - 150
1,2-Dichloroethane	20.0	19.5		ug/L		98	66 - 129
1,2-Dichloropropane	20.0	19.6		ug/L		98	72 - 128
Acrolein	40.0	104	*+	ug/L		259	18 - 150
2-Butanone (MEK)	100	78.8		ug/L		79	65 - 142
Acrylonitrile	200	247		ug/L		123	57 - 146
2-Hexanone	100	125		ug/L		125	72 - 134
4-Methyl-2-pentanone (MIBK)	100	117		ug/L		117	77 - 130
Acetone	100	105		ug/L		105	60 - 133
Benzene	20.0	18.7		ug/L		93	71 - 126
Bromodichloromethane	20.0	17.4		ug/L		87	76 - 121
Bromoform	20.0	22.4		ug/L		112	58 - 128
Bromomethane	20.0	12.3		ug/L		62	33 - 150
Carbon disulfide	20.0	15.2		ug/L		76	35 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018424/4
Matrix: Water
Analysis Batch: 1018424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	20.0	16.4		ug/L		82	65 - 131
Chlorobenzene	20.0	18.2		ug/L		91	80 - 120
Chloroethane	20.0	15.7		ug/L		78	54 - 150
Chloroform	20.0	17.8		ug/L		89	78 - 125
Chloromethane	20.0	19.1		ug/L		95	43 - 149
cis-1,2-Dichloroethene	20.0	15.8		ug/L		79	78 - 121
cis-1,3-Dichloropropene	20.0	18.6		ug/L		93	74 - 125
Dibromochloromethane	20.0	19.1		ug/L		95	73 - 121
Dichlorodifluoromethane	20.0	18.8		ug/L		94	38 - 144
Ethylbenzene	20.0	17.8		ug/L		89	78 - 120
Methyl acetate	40.0	53.4		ug/L		134	50 - 147
tert-Butyl alcohol	200	180		ug/L		90	64 - 142
Methyl tert-butyl ether	20.0	18.8		ug/L		94	72 - 131
Methylene Chloride	20.0	16.3		ug/L		82	74 - 127
Styrene	20.0	18.0		ug/L		90	82 - 127
Tetrachloroethene	20.0	19.0		ug/L		95	70 - 127
Toluene	20.0	17.2		ug/L		86	78 - 120
Xylenes, Total	40.0	35.7		ug/L		89	80 - 120
trans-1,2-Dichloroethene	20.0	15.7		ug/L		78	70 - 126
trans-1,3-Dichloropropene	20.0	17.9		ug/L		90	71 - 127
Trichloroethene	20.0	16.1		ug/L		81	73 - 121
Trichlorofluoromethane	20.0	17.0		ug/L		85	62 - 134
Vinyl chloride	20.0	17.1		ug/L		85	55 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 128*
4-Bromofluorobenzene	*119*		*76 - 120*
Dibromofluoromethane (Surr)	*96*		*77 - 132*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 460-319312-A-1 MS
Matrix: Water
Analysis Batch: 1018424

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.24	U	200	155		ug/L		78	72 - 128
1,1,2,2-Tetrachloroethane	0.37	U	200	180		ug/L		90	63 - 139
1,1,2-Trichloroethane	0.20	U	200	185		ug/L		92	74 - 125
1,1-Dichloroethane	0.26	U	200	178		ug/L		89	73 - 130
1,1-Dichloroethene	0.26	U F1	200	132	F1	ug/L		66	68 - 133
1,2-Dibromo-3-Chloropropane	0.38	U	200	186		ug/L		93	58 - 132
1,2-Dibromoethane	0.50	U	200	174		ug/L		87	79 - 126
1,4-Dioxane	28	U F2	4000	2370		ug/L		59	42 - 150
1,2-Dichloroethane	0.43	U	200	184		ug/L		92	66 - 129
1,2-Dichloropropane	0.35	U	200	188		ug/L		94	72 - 128
Acrolein	2.4	U F1 *+	400	604	F1	ug/L		151	18 - 150
2-Butanone (MEK)	1.9	U	1000	678		ug/L		68	65 - 142
Acrylonitrile	1.8	U	2000	2360		ug/L		118	57 - 146

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319312-A-1 MS
Matrix: Water
Analysis Batch: 1018424

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	1.1	U	1000	1120		ug/L		112	72 - 134
4-Methyl-2-pentanone (MIBK)	1.3	U	1000	1070		ug/L		107	77 - 130
Acetone	4.4	U	1000	928		ug/L		93	60 - 133
Benzene	0.20	U	200	164		ug/L		82	71 - 126
Bromodichloromethane	0.34	U	200	173		ug/L		86	76 - 121
Bromoform	0.54	U	200	202		ug/L		101	58 - 128
Bromomethane	0.55	U F2	200	95.3		ug/L		48	33 - 150
Carbon disulfide	0.82	U	200	92.6		ug/L		46	35 - 150
Carbon tetrachloride	0.21	U	200	154		ug/L		77	65 - 131
Chlorobenzene	0.38	U	200	173		ug/L		87	80 - 120
Chloroethane	0.32	U	200	179		ug/L		89	54 - 150
Chloroform	0.33	U	200	166		ug/L		83	78 - 125
Chloromethane	0.40	U	200	219		ug/L		110	43 - 149
cis-1,2-Dichloroethene	0.22	U F1	200	146	F1	ug/L		73	78 - 121
cis-1,3-Dichloropropene	0.22	U	200	155		ug/L		78	74 - 125
Dibromochloromethane	0.28	U	200	180		ug/L		90	73 - 121
Dichlorodifluoromethane	0.31	U	200	232		ug/L		116	38 - 144
Ethylbenzene	0.30	U	200	161		ug/L		81	78 - 120
Methyl acetate	0.79	U	400	502		ug/L		126	50 - 147
tert-Butyl alcohol	8.3	U	2000	1620		ug/L		81	64 - 142
Methyl tert-butyl ether	0.22	U	200	177		ug/L		89	72 - 131
Methylene Chloride	0.32	U	200	150		ug/L		75	74 - 127
Styrene	0.42	U	200	164		ug/L		82	82 - 127
Tetrachloroethene	0.25	U	200	162		ug/L		81	70 - 127
Toluene	0.38	U F1	200	152	F1	ug/L		76	78 - 120
Xylenes, Total	0.65	U	400	323		ug/L		81	80 - 120
trans-1,2-Dichloroethene	0.24	U F1	200	131	F1	ug/L		65	70 - 126
trans-1,3-Dichloropropene	0.22	U	200	154		ug/L		77	71 - 127
Trichloroethene	0.31	U F1	200	145	F1	ug/L		72	73 - 121
Trichlorofluoromethane	0.32	U	200	206		ug/L		103	62 - 134
Vinyl chloride	0.17	U	200	203		ug/L		101	55 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 128*
4-Bromofluorobenzene	*117*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 132*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 460-319312-A-1 MSD
Matrix: Water
Analysis Batch: 1018424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.24	U	200	165		ug/L		82	72 - 128	6	30
1,1,2,2-Tetrachloroethane	0.37	U	200	194		ug/L		97	63 - 139	7	30
1,1,2-Trichloroethane	0.20	U	200	193		ug/L		96	74 - 125	4	30
1,1-Dichloroethane	0.26	U	200	192		ug/L		96	73 - 130	7	30
1,1-Dichloroethene	0.26	U F1	200	144		ug/L		72	68 - 133	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-319312-A-1 MSD
Matrix: Water
Analysis Batch: 1018424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.38	U	200	206		ug/L		103	58 - 132	10	30
1,2-Dibromoethane	0.50	U	200	190		ug/L		95	79 - 126	9	30
1,4-Dioxane	28	U F2	4000	3600	F2	ug/L		90	42 - 150	41	30
1,2-Dichloroethane	0.43	U	200	193		ug/L		96	66 - 129	5	30
1,2-Dichloropropane	0.35	U	200	200		ug/L		100	72 - 128	6	30
Acrolein	2.4	U F1 *+	400	589		ug/L		147	18 - 150	3	30
2-Butanone (MEK)	1.9	U	1000	764		ug/L		76	65 - 142	12	30
Acrylonitrile	1.8	U	2000	2460		ug/L		123	57 - 146	4	30
2-Hexanone	1.1	U	1000	1260		ug/L		126	72 - 134	12	30
4-Methyl-2-pentanone (MIBK)	1.3	U	1000	1230		ug/L		123	77 - 130	14	30
Acetone	4.4	U	1000	1010		ug/L		101	60 - 133	8	30
Benzene	0.20	U	200	180		ug/L		90	71 - 126	9	30
Bromodichloromethane	0.34	U	200	178		ug/L		89	76 - 121	3	30
Bromoform	0.54	U	200	213		ug/L		106	58 - 128	5	30
Bromomethane	0.55	U F2	200	130	F2	ug/L		65	33 - 150	31	30
Carbon disulfide	0.82	U	200	99.2		ug/L		50	35 - 150	7	30
Carbon tetrachloride	0.21	U	200	169		ug/L		85	65 - 131	9	30
Chlorobenzene	0.38	U	200	180		ug/L		90	80 - 120	4	30
Chloroethane	0.32	U	200	204		ug/L		102	54 - 150	13	30
Chloroform	0.33	U	200	180		ug/L		90	78 - 125	8	30
Chloromethane	0.40	U	200	242		ug/L		121	43 - 149	10	30
cis-1,2-Dichloroethene	0.22	U F1	200	153	F1	ug/L		77	78 - 121	5	30
cis-1,3-Dichloropropene	0.22	U	200	168		ug/L		84	74 - 125	8	30
Dibromochloromethane	0.28	U	200	188		ug/L		94	73 - 121	4	30
Dichlorodifluoromethane	0.31	U	200	259		ug/L		129	38 - 144	11	30
Ethylbenzene	0.30	U	200	176		ug/L		88	78 - 120	8	30
Methyl acetate	0.79	U	400	521		ug/L		130	50 - 147	4	30
tert-Butyl alcohol	8.3	U	2000	1910		ug/L		95	64 - 142	16	30
Methyl tert-butyl ether	0.22	U	200	191		ug/L		95	72 - 131	7	30
Methylene Chloride	0.32	U	200	161		ug/L		80	74 - 127	7	30
Styrene	0.42	U	200	183		ug/L		92	82 - 127	11	30
Tetrachloroethene	0.25	U	200	173		ug/L		87	70 - 127	7	30
Toluene	0.38	U F1	200	168		ug/L		84	78 - 120	10	30
Xylenes, Total	0.65	U	400	356		ug/L		89	80 - 120	10	30
trans-1,2-Dichloroethene	0.24	U F1	200	146		ug/L		73	70 - 126	11	30
trans-1,3-Dichloropropene	0.22	U	200	171		ug/L		85	71 - 127	10	30
Trichloroethene	0.31	U F1	200	157		ug/L		79	73 - 121	8	30
Trichlorofluoromethane	0.32	U	200	214		ug/L		107	62 - 134	4	30
Vinyl chloride	0.17	U	200	229		ug/L		114	55 - 144	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 128*
4-Bromofluorobenzene	*118*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 132*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018633/7
Matrix: Solid
Analysis Batch: 1018633

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/29/25 20:42	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/29/25 20:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/29/25 20:42	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/29/25 20:42	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/29/25 20:42	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/29/25 20:42	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/29/25 20:42	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/29/25 20:42	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/29/25 20:42	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/29/25 20:42	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/29/25 20:42	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/29/25 20:42	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/29/25 20:42	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/29/25 20:42	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/29/25 20:42	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/29/25 20:42	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			01/29/25 20:42	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/29/25 20:42	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/29/25 20:42	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/29/25 20:42	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			01/29/25 20:42	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/29/25 20:42	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/29/25 20:42	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/29/25 20:42	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/29/25 20:42	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/29/25 20:42	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/29/25 20:42	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/29/25 20:42	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/29/25 20:42	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/29/25 20:42	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/29/25 20:42	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/29/25 20:42	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/29/25 20:42	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			01/29/25 20:42	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/29/25 20:42	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/29/25 20:42	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/29/25 20:42	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/29/25 20:42	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/29/25 20:42	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/29/25 20:42	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/29/25 20:42	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/29/25 20:42	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/29/25 20:42	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/29/25 20:42	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/29/25 20:42	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/29/25 20:42	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/29/25 20:42	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/29/25 20:42	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018633/7
Matrix: Solid
Analysis Batch: 1018633

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/29/25 20:42	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/29/25 20:42	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/29/25 20:42	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*01/29/25 20:42*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*		*01/29/25 20:42*	*1*
4-Bromofluorobenzene	*85*		*71 - 128*		*01/29/25 20:42*	*1*
Dibromofluoromethane (Surr)	*114*		*50 - 150*		*01/29/25 20:42*	*1*
Toluene-d8 (Surr)	*89*		*71 - 126*		*01/29/25 20:42*	*1*

Lab Sample ID: LCS 460-1018633/3
Matrix: Solid
Analysis Batch: 1018633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0177		mg/Kg		89	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0223		mg/Kg		112	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0207		mg/Kg		104	75 - 121
1,1,2-Trichloroethane	0.0200	0.0207		mg/Kg		104	80 - 120
1,1-Dichloroethane	0.0200	0.0188		mg/Kg		94	72 - 120
1,1-Dichloroethene	0.0200	0.0216		mg/Kg		108	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0196		mg/Kg		98	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0184		mg/Kg		92	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0255	*+	mg/Kg		127	80 - 124
1,2-Dibromoethane	0.0200	0.0215		mg/Kg		107	79 - 120
1,2-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120
1,2-Dichloroethane	0.0200	0.0192		mg/Kg		96	70 - 123
1,2-Dichloropropane	0.0200	0.0204		mg/Kg		102	73 - 124
1,3-Dichlorobenzene	0.0200	0.0193		mg/Kg		96	80 - 120
1,4-Dichlorobenzene	0.0200	0.0193		mg/Kg		97	80 - 120
2-Butanone (MEK)	0.100	0.0810		mg/Kg		81	64 - 128
2-Hexanone	0.100	0.0767		mg/Kg		77	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0762	*-	mg/Kg		76	80 - 120
Acetone	0.100	0.0679		mg/Kg		68	58 - 122
Benzene	0.0200	0.0177		mg/Kg		88	75 - 120
Bromodichloromethane	0.0200	0.0201		mg/Kg		101	77 - 124
Bromoform	0.0200	0.0220		mg/Kg		110	61 - 125
Bromomethane	0.0200	0.0315	*+	mg/Kg		157	37 - 150
Carbon disulfide	0.0200	0.0193		mg/Kg		97	57 - 133
Carbon tetrachloride	0.0200	0.0175		mg/Kg		87	66 - 127
Chlorobenzene	0.0200	0.0192		mg/Kg		96	80 - 120
Chlorobromomethane	0.0200	0.0273	*+	mg/Kg		137	76 - 127
Chloroethane	0.0200	0.0225		mg/Kg		113	60 - 123
Chloroform	0.0200	0.0200		mg/Kg		100	79 - 126

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018633/3
Matrix: Solid
Analysis Batch: 1018633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloromethane			0.0200	0.0196		mg/Kg		98	46 - 122		
cis-1,2-Dichloroethene			0.0200	0.0224		mg/Kg		112	80 - 123		
cis-1,3-Dichloropropene			0.0200	0.0180		mg/Kg		90	75 - 120		
Cyclohexane			0.0200	0.0213		mg/Kg		107	65 - 132		
Dibromochloromethane			0.0200	0.0197		mg/Kg		99	72 - 120		
Dichlorodifluoromethane			0.0200	0.0188		mg/Kg		94	45 - 129		
Ethylbenzene			0.0200	0.0186		mg/Kg		93	80 - 120		
Isopropylbenzene			0.0200	0.0172		mg/Kg		86	74 - 120		
Methyl acetate			0.0400	0.0465		mg/Kg		116	57 - 120		
Methyl tert-butyl ether			0.0200	0.0227		mg/Kg		114	74 - 125		
Methylcyclohexane			0.0200	0.0210		mg/Kg		105	66 - 125		
Methylene Chloride			0.0200	0.0219		mg/Kg		109	78 - 120		
m-Xylene & p-Xylene			0.0200	0.0185		mg/Kg		92	80 - 120		
o-Xylene			0.0200	0.0190		mg/Kg		95	80 - 120		
Styrene			0.0200	0.0197		mg/Kg		99	80 - 120		
Tetrachloroethene			0.0200	0.0183		mg/Kg		91	73 - 120		
Toluene			0.0200	0.0179		mg/Kg		90	80 - 120		
trans-1,2-Dichloroethene			0.0200	0.0216		mg/Kg		108	78 - 120		
trans-1,3-Dichloropropene			0.0200	0.0180		mg/Kg		90	77 - 120		
Trichloroethene			0.0200	0.0209		mg/Kg		105	80 - 120		
Trichlorofluoromethane			0.0200	0.0199		mg/Kg		99	61 - 130		
Vinyl chloride			0.0200	0.0244		mg/Kg		122	54 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 138*
4-Bromofluorobenzene	*86*		*71 - 128*
Dibromofluoromethane (Surr)	*115*		*50 - 150*
Toluene-d8 (Surr)	*90*		*71 - 126*

Lab Sample ID: LCSD 460-1018633/4
Matrix: Solid
Analysis Batch: 1018633

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			0.0200	0.0172		mg/Kg		86	78 - 120	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.0232		mg/Kg		116	70 - 133	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			0.0200	0.0220		mg/Kg		110	75 - 121	6	30
1,1,2-Trichloroethane			0.0200	0.0212		mg/Kg		106	80 - 120	2	30
1,1-Dichloroethane			0.0200	0.0195		mg/Kg		98	72 - 120	4	30
1,1-Dichloroethene			0.0200	0.0227		mg/Kg		113	76 - 120	5	30
1,2,3-Trichlorobenzene			0.0200	0.0169		mg/Kg		85	77 - 137	15	30
1,2,4-Trichlorobenzene			0.0200	0.0158		mg/Kg		79	77 - 136	15	30
1,2-Dibromo-3-Chloropropane			0.0200	0.0247		mg/Kg		124	80 - 124	3	30
1,2-Dibromoethane			0.0200	0.0218		mg/Kg		109	79 - 120	1	30
1,2-Dichlorobenzene			0.0200	0.0192		mg/Kg		96	80 - 120	2	30
1,2-Dichloroethane			0.0200	0.0182		mg/Kg		91	70 - 123	5	30
1,2-Dichloropropane			0.0200	0.0204		mg/Kg		102	73 - 124	0	30
1,3-Dichlorobenzene			0.0200	0.0186		mg/Kg		93	80 - 120	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018633/4
Matrix: Solid
Analysis Batch: 1018633

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0200	0.0187		mg/Kg		94	80 - 120	3	30
2-Butanone (MEK)	0.100	0.0741		mg/Kg		74	64 - 128	9	30
2-Hexanone	0.100	0.0716	*-	mg/Kg		72	75 - 120	7	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0737	*-	mg/Kg		74	80 - 120	3	30
Acetone	0.100	0.0641		mg/Kg		64	58 - 122	6	30
Benzene	0.0200	0.0183		mg/Kg		91	75 - 120	3	30
Bromodichloromethane	0.0200	0.0197		mg/Kg		99	77 - 124	2	30
Bromoform	0.0200	0.0212		mg/Kg		106	61 - 125	4	30
Bromomethane	0.0200	0.0285		mg/Kg		142	37 - 150	10	30
Carbon disulfide	0.0200	0.0204		mg/Kg		102	57 - 133	5	30
Carbon tetrachloride	0.0200	0.0166		mg/Kg		83	66 - 127	5	30
Chlorobenzene	0.0200	0.0186		mg/Kg		93	80 - 120	3	30
Chlorobromomethane	0.0200	0.0259	*+	mg/Kg		129	76 - 127	5	30
Chloroethane	0.0200	0.0212		mg/Kg		106	60 - 123	6	30
Chloroform	0.0200	0.0193		mg/Kg		97	79 - 126	3	30
Chloromethane	0.0200	0.0178		mg/Kg		89	46 - 122	10	30
cis-1,2-Dichloroethene	0.0200	0.0224		mg/Kg		112	80 - 123	0	30
cis-1,3-Dichloropropene	0.0200	0.0182		mg/Kg		91	75 - 120	2	30
Cyclohexane	0.0200	0.0217		mg/Kg		108	65 - 132	2	30
Dibromochloromethane	0.0200	0.0192		mg/Kg		96	72 - 120	3	30
Dichlorodifluoromethane	0.0200	0.0167		mg/Kg		84	45 - 129	12	30
Ethylbenzene	0.0200	0.0185		mg/Kg		93	80 - 120	0	30
Isopropylbenzene	0.0200	0.0171		mg/Kg		86	74 - 120	0	30
Methyl acetate	0.0400	0.0517	*+	mg/Kg		129	57 - 120	11	30
Methyl tert-butyl ether	0.0200	0.0240		mg/Kg		120	74 - 125	5	30
Methylcyclohexane	0.0200	0.0211		mg/Kg		105	66 - 125	1	30
Methylene Chloride	0.0200	0.0236		mg/Kg		118	78 - 120	7	30
m-Xylene & p-Xylene	0.0200	0.0184		mg/Kg		92	80 - 120	1	30
o-Xylene	0.0200	0.0189		mg/Kg		94	80 - 120	1	30
Styrene	0.0200	0.0195		mg/Kg		98	80 - 120	1	30
Tetrachloroethene	0.0200	0.0176		mg/Kg		88	73 - 120	4	30
Toluene	0.0200	0.0182		mg/Kg		91	80 - 120	1	30
trans-1,2-Dichloroethene	0.0200	0.0228		mg/Kg		114	78 - 120	5	30
trans-1,3-Dichloropropene	0.0200	0.0180		mg/Kg		90	77 - 120	0	30
Trichloroethene	0.0200	0.0201		mg/Kg		100	80 - 120	4	30
Trichlorofluoromethane	0.0200	0.0187		mg/Kg		94	61 - 130	6	30
Vinyl chloride	0.0200	0.0231		mg/Kg		115	54 - 122	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 138*
4-Bromofluorobenzene	*85*		*71 - 128*
Dibromofluoromethane (Surr)	*114*		*50 - 150*
Toluene-d8 (Surr)	*92*		*71 - 126*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018701/7
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/30/25 09:13	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/30/25 09:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/30/25 09:13	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/30/25 09:13	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/30/25 09:13	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/30/25 09:13	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/30/25 09:13	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/30/25 09:13	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/30/25 09:13	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/30/25 09:13	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/30/25 09:13	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/30/25 09:13	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/30/25 09:13	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/30/25 09:13	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/30/25 09:13	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/30/25 09:13	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			01/30/25 09:13	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/30/25 09:13	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/30/25 09:13	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/30/25 09:13	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			01/30/25 09:13	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/30/25 09:13	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/30/25 09:13	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/30/25 09:13	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/30/25 09:13	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/30/25 09:13	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/30/25 09:13	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/30/25 09:13	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/30/25 09:13	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/30/25 09:13	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/30/25 09:13	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/30/25 09:13	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/30/25 09:13	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			01/30/25 09:13	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/30/25 09:13	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/30/25 09:13	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/30/25 09:13	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/30/25 09:13	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/30/25 09:13	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/30/25 09:13	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/30/25 09:13	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/30/25 09:13	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/30/25 09:13	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/30/25 09:13	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/30/25 09:13	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/30/25 09:13	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/30/25 09:13	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/30/25 09:13	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018701/7
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/30/25 09:13	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/30/25 09:13	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/30/25 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*65 - 138*		*01/30/25 09:13*	*1*
4-Bromofluorobenzene	*93*		*71 - 128*		*01/30/25 09:13*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 150*		*01/30/25 09:13*	*1*
Toluene-d8 (Surr)	*81*		*71 - 126*		*01/30/25 09:13*	*1*

Lab Sample ID: LCS 460-1018701/3
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0169		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0243		mg/Kg		121	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0201		mg/Kg		101	75 - 121
1,1,2-Trichloroethane	0.0200	0.0222		mg/Kg		111	80 - 120
1,1-Dichloroethane	0.0200	0.0178		mg/Kg		89	72 - 120
1,1-Dichloroethene	0.0200	0.0214		mg/Kg		107	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0225		mg/Kg		113	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0218		mg/Kg		109	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0271	*+	mg/Kg		135	80 - 124
1,2-Dibromoethane	0.0200	0.0226		mg/Kg		113	79 - 120
1,2-Dichlorobenzene	0.0200	0.0216		mg/Kg		108	80 - 120
1,2-Dichloroethane	0.0200	0.0176		mg/Kg		88	70 - 123
1,2-Dichloropropane	0.0200	0.0191		mg/Kg		95	73 - 124
1,3-Dichlorobenzene	0.0200	0.0216		mg/Kg		108	80 - 120
1,4-Dichlorobenzene	0.0200	0.0221		mg/Kg		111	80 - 120
2-Butanone (MEK)	0.100	0.0856		mg/Kg		86	64 - 128
2-Hexanone	0.100	0.0806		mg/Kg		81	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0812		mg/Kg		81	80 - 120
Acetone	0.100	0.0683		mg/Kg		68	58 - 122
Benzene	0.0200	0.0191		mg/Kg		96	75 - 120
Bromodichloromethane	0.0200	0.0189		mg/Kg		95	77 - 124
Bromoform	0.0200	0.0226		mg/Kg		113	61 - 125
Bromomethane	0.0200	0.0246		mg/Kg		123	37 - 150
Carbon disulfide	0.0200	0.0200		mg/Kg		100	57 - 133
Carbon tetrachloride	0.0200	0.0164		mg/Kg		82	66 - 127
Chlorobenzene	0.0200	0.0203		mg/Kg		101	80 - 120
Chlorobromomethane	0.0200	0.0251		mg/Kg		125	76 - 127
Chloroethane	0.0200	0.0150		mg/Kg		75	60 - 123
Chloroform	0.0200	0.0190		mg/Kg		95	79 - 126
Chloromethane	0.0200	0.0162		mg/Kg		81	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0214		mg/Kg		107	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0190		mg/Kg		95	75 - 120
Cyclohexane	0.0200	0.0214		mg/Kg		107	65 - 132

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018701/3
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibromochloromethane	0.0200	0.0203		mg/Kg		101	72 - 120
Dichlorodifluoromethane	0.0200	0.0152		mg/Kg		76	45 - 129
Ethylbenzene	0.0200	0.0204		mg/Kg		102	80 - 120
Isopropylbenzene	0.0200	0.0190		mg/Kg		95	74 - 120
Methyl acetate	0.0400	0.0428		mg/Kg		107	57 - 120
Methyl tert-butyl ether	0.0200	0.0210		mg/Kg		105	74 - 125
Methylcyclohexane	0.0200	0.0213		mg/Kg		106	66 - 125
Methylene Chloride	0.0200	0.0214		mg/Kg		107	78 - 120
m-Xylene & p-Xylene	0.0200	0.0201		mg/Kg		101	80 - 120
o-Xylene	0.0200	0.0204		mg/Kg		102	80 - 120
Styrene	0.0200	0.0213		mg/Kg		106	80 - 120
Tetrachloroethene	0.0200	0.0199		mg/Kg		100	73 - 120
Toluene	0.0200	0.0194		mg/Kg		97	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0212		mg/Kg		106	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0191		mg/Kg		96	77 - 120
Trichloroethene	0.0200	0.0200		mg/Kg		100	80 - 120
Trichlorofluoromethane	0.0200	0.0141		mg/Kg		71	61 - 130
Vinyl chloride	0.0200	0.0196		mg/Kg		98	54 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*65 - 138*
4-Bromofluorobenzene	*92*		*71 - 128*
Dibromofluoromethane (Surr)	*92*		*50 - 150*
Toluene-d8 (Surr)	*82*		*71 - 126*

Lab Sample ID: MB 460-1024342/7
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			03/06/25 06:57	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/06/25 06:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/06/25 06:57	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			03/06/25 06:57	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/06/25 06:57	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			03/06/25 06:57	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/06/25 06:57	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/06/25 06:57	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			03/06/25 06:57	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			03/06/25 06:57	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/06/25 06:57	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/06/25 06:57	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			03/06/25 06:57	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			03/06/25 06:57	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			03/06/25 06:57	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			03/06/25 06:57	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			03/06/25 06:57	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			03/06/25 06:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1024342/7
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			03/06/25 06:57	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			03/06/25 06:57	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			03/06/25 06:57	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			03/06/25 06:57	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			03/06/25 06:57	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			03/06/25 06:57	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			03/06/25 06:57	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/06/25 06:57	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			03/06/25 06:57	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			03/06/25 06:57	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			03/06/25 06:57	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			03/06/25 06:57	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			03/06/25 06:57	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/06/25 06:57	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			03/06/25 06:57	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			03/06/25 06:57	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			03/06/25 06:57	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			03/06/25 06:57	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			03/06/25 06:57	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			03/06/25 06:57	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			03/06/25 06:57	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			03/06/25 06:57	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			03/06/25 06:57	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			03/06/25 06:57	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			03/06/25 06:57	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			03/06/25 06:57	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			03/06/25 06:57	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			03/06/25 06:57	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			03/06/25 06:57	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/06/25 06:57	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			03/06/25 06:57	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			03/06/25 06:57	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			03/06/25 06:57	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*03/06/25 06:57*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 138*		*03/06/25 06:57*	*1*
4-Bromofluorobenzene	*97*		*71 - 128*		*03/06/25 06:57*	*1*
Dibromofluoromethane (Surr)	*101*		*50 - 150*		*03/06/25 06:57*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*		*03/06/25 06:57*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1024342/3
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0191		mg/Kg		95	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0174		mg/Kg		87	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0214		mg/Kg		107	75 - 121
1,1,2-Trichloroethane	0.0200	0.0185		mg/Kg		93	80 - 120
1,1-Dichloroethane	0.0200	0.0198		mg/Kg		99	72 - 120
1,1-Dichloroethene	0.0200	0.0207		mg/Kg		103	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0165		mg/Kg		82	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0178		mg/Kg		89	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0140	*-	mg/Kg		70	80 - 124
1,2-Dibromoethane	0.0200	0.0168		mg/Kg		84	79 - 120
1,2-Dichlorobenzene	0.0200	0.0175		mg/Kg		87	80 - 120
1,2-Dichloroethane	0.0200	0.0173		mg/Kg		87	70 - 123
1,2-Dichloropropane	0.0200	0.0189		mg/Kg		94	73 - 124
1,3-Dichlorobenzene	0.0200	0.0182		mg/Kg		91	80 - 120
1,4-Dichlorobenzene	0.0200	0.0191		mg/Kg		96	80 - 120
2-Butanone (MEK)	0.100	0.0915		mg/Kg		92	64 - 128
2-Hexanone	0.100	0.0812		mg/Kg		81	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0872		mg/Kg		87	80 - 120
Acetone	0.100	0.0894		mg/Kg		89	58 - 122
Benzene	0.0200	0.0202		mg/Kg		101	75 - 120
Bromodichloromethane	0.0200	0.0174		mg/Kg		87	77 - 124
Bromoform	0.0200	0.0141		mg/Kg		70	61 - 125
Bromomethane	0.0200	0.0545	*+	mg/Kg		273	37 - 150
Carbon disulfide	0.0200	0.0201		mg/Kg		101	57 - 133
Carbon tetrachloride	0.0200	0.0179		mg/Kg		90	66 - 127
Chlorobenzene	0.0200	0.0181		mg/Kg		90	80 - 120
Chlorobromomethane	0.0200	0.0182		mg/Kg		91	76 - 127
Chloroethane	0.0200	0.0207		mg/Kg		103	60 - 123
Chloroform	0.0200	0.0196		mg/Kg		98	79 - 126
Chloromethane	0.0200	0.0201		mg/Kg		100	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0194		mg/Kg		97	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0185		mg/Kg		93	75 - 120
Cyclohexane	0.0200	0.0208		mg/Kg		104	65 - 132
Dibromochloromethane	0.0200	0.0160		mg/Kg		80	72 - 120
Dichlorodifluoromethane	0.0200	0.0184		mg/Kg		92	45 - 129
Ethylbenzene	0.0200	0.0186		mg/Kg		93	80 - 120
Isopropylbenzene	0.0200	0.0183		mg/Kg		92	74 - 120
Methyl acetate	0.0400	0.0357		mg/Kg		89	57 - 120
Methyl tert-butyl ether	0.0200	0.0178		mg/Kg		89	74 - 125
Methylcyclohexane	0.0200	0.0192		mg/Kg		96	66 - 125
Methylene Chloride	0.0200	0.0187		mg/Kg		93	78 - 120
m-Xylene & p-Xylene	0.0200	0.0178		mg/Kg		89	80 - 120
o-Xylene	0.0200	0.0180		mg/Kg		90	80 - 120
Styrene	0.0200	0.0177		mg/Kg		88	80 - 120
Tetrachloroethene	0.0200	0.0179		mg/Kg		89	73 - 120
Toluene	0.0200	0.0199		mg/Kg		100	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0200		mg/Kg		100	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0169		mg/Kg		85	77 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1024342/3
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	0.0200	0.0187		mg/Kg		94	80 - 120
Trichlorofluoromethane	0.0200	0.0198		mg/Kg		99	61 - 130
Vinyl chloride	0.0200	0.0233		mg/Kg		117	54 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 138*
4-Bromofluorobenzene	*88*		*71 - 128*
Dibromofluoromethane (Surr)	*109*		*50 - 150*
Toluene-d8 (Surr)	*106*		*71 - 126*

Lab Sample ID: LCSD 460-1024342/4
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0183		mg/Kg		92	78 - 120	4	30
1,1,2,2-Tetrachloroethane	0.0200	0.0186		mg/Kg		93	70 - 133	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0209		mg/Kg		104	75 - 121	3	30
1,1,2-Trichloroethane	0.0200	0.0179		mg/Kg		89	80 - 120	3	30
1,1-Dichloroethane	0.0200	0.0190		mg/Kg		95	72 - 120	4	30
1,1-Dichloroethene	0.0200	0.0198		mg/Kg		99	76 - 120	4	30
1,2,3-Trichlorobenzene	0.0200	0.0181		mg/Kg		91	77 - 137	9	30
1,2,4-Trichlorobenzene	0.0200	0.0173		mg/Kg		86	77 - 136	3	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0135	*-	mg/Kg		67	80 - 124	3	30
1,2-Dibromoethane	0.0200	0.0161		mg/Kg		81	79 - 120	4	30
1,2-Dichlorobenzene	0.0200	0.0178		mg/Kg		89	80 - 120	2	30
1,2-Dichloroethane	0.0200	0.0165		mg/Kg		83	70 - 123	5	30
1,2-Dichloropropane	0.0200	0.0180		mg/Kg		90	73 - 124	4	30
1,3-Dichlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120	3	30
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		93	80 - 120	3	30
2-Butanone (MEK)	0.100	0.0893		mg/Kg		89	64 - 128	2	30
2-Hexanone	0.100	0.0780		mg/Kg		78	75 - 120	4	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0832		mg/Kg		83	80 - 120	5	30
Acetone	0.100	0.0848		mg/Kg		85	58 - 122	5	30
Benzene	0.0200	0.0198		mg/Kg		99	75 - 120	2	30
Bromodichloromethane	0.0200	0.0168		mg/Kg		84	77 - 124	4	30
Bromoform	0.0200	0.0144		mg/Kg		72	61 - 125	2	30
Bromomethane	0.0200	0.0534	*+	mg/Kg		267	37 - 150	2	30
Carbon disulfide	0.0200	0.0194		mg/Kg		97	57 - 133	4	30
Carbon tetrachloride	0.0200	0.0173		mg/Kg		87	66 - 127	3	30
Chlorobenzene	0.0200	0.0179		mg/Kg		90	80 - 120	1	30
Chlorobromomethane	0.0200	0.0174		mg/Kg		87	76 - 127	5	30
Chloroethane	0.0200	0.0193		mg/Kg		97	60 - 123	7	30
Chloroform	0.0200	0.0187		mg/Kg		93	79 - 126	5	30
Chloromethane	0.0200	0.0187		mg/Kg		93	46 - 122	7	30
cis-1,2-Dichloroethene	0.0200	0.0193		mg/Kg		97	80 - 123	0	30
cis-1,3-Dichloropropene	0.0200	0.0176		mg/Kg		88	75 - 120	5	30
Cyclohexane	0.0200	0.0199		mg/Kg		100	65 - 132	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1024342/4
Matrix: Solid
Analysis Batch: 1024342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibromochloromethane			0.0200	0.0156		mg/Kg		78	72 - 120	3	30
Dichlorodifluoromethane			0.0200	0.0168		mg/Kg		84	45 - 129	9	30
Ethylbenzene			0.0200	0.0188		mg/Kg		94	80 - 120	1	30
Isopropylbenzene			0.0200	0.0181		mg/Kg		90	74 - 120	1	30
Methyl acetate			0.0400	0.0343		mg/Kg		86	57 - 120	4	30
Methyl tert-butyl ether			0.0200	0.0169		mg/Kg		85	74 - 125	5	30
Methylcyclohexane			0.0200	0.0188		mg/Kg		94	66 - 125	2	30
Methylene Chloride			0.0200	0.0175		mg/Kg		87	78 - 120	7	30
m-Xylene & p-Xylene			0.0200	0.0174		mg/Kg		87	80 - 120	2	30
o-Xylene			0.0200	0.0178		mg/Kg		89	80 - 120	2	30
Styrene			0.0200	0.0172		mg/Kg		86	80 - 120	2	30
Tetrachloroethene			0.0200	0.0174		mg/Kg		87	73 - 120	3	30
Toluene			0.0200	0.0190		mg/Kg		95	80 - 120	5	30
trans-1,2-Dichloroethene			0.0200	0.0194		mg/Kg		97	78 - 120	3	30
trans-1,3-Dichloropropene			0.0200	0.0159		mg/Kg		80	77 - 120	6	30
Trichloroethene			0.0200	0.0181		mg/Kg		90	80 - 120	4	30
Trichlorofluoromethane			0.0200	0.0183		mg/Kg		92	61 - 130	8	30
Vinyl chloride			0.0200	0.0220		mg/Kg		110	54 - 122	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 138*
4-Bromofluorobenzene	*94*		*71 - 128*
Dibromofluoromethane (Surr)	*102*		*50 - 150*
Toluene-d8 (Surr)	*102*		*71 - 126*

Lab Sample ID: MB 460-1024609/7
Matrix: Solid
Analysis Batch: 1024609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			03/07/25 07:57	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/07/25 07:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/07/25 07:57	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			03/07/25 07:57	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			03/07/25 07:57	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			03/07/25 07:57	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/07/25 07:57	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/07/25 07:57	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			03/07/25 07:57	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			03/07/25 07:57	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			03/07/25 07:57	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			03/07/25 07:57	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			03/07/25 07:57	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			03/07/25 07:57	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			03/07/25 07:57	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			03/07/25 07:57	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			03/07/25 07:57	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			03/07/25 07:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1024609/7
Matrix: Solid
Analysis Batch: 1024609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			03/07/25 07:57	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			03/07/25 07:57	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			03/07/25 07:57	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			03/07/25 07:57	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			03/07/25 07:57	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			03/07/25 07:57	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			03/07/25 07:57	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			03/07/25 07:57	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			03/07/25 07:57	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			03/07/25 07:57	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			03/07/25 07:57	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			03/07/25 07:57	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			03/07/25 07:57	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/07/25 07:57	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			03/07/25 07:57	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			03/07/25 07:57	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			03/07/25 07:57	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			03/07/25 07:57	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			03/07/25 07:57	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			03/07/25 07:57	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			03/07/25 07:57	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			03/07/25 07:57	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			03/07/25 07:57	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			03/07/25 07:57	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			03/07/25 07:57	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			03/07/25 07:57	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			03/07/25 07:57	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			03/07/25 07:57	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			03/07/25 07:57	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			03/07/25 07:57	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			03/07/25 07:57	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			03/07/25 07:57	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			03/07/25 07:57	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*		*03/07/25 07:57*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 138*		*03/07/25 07:57*	*1*
4-Bromofluorobenzene	*101*		*71 - 128*		*03/07/25 07:57*	*1*
Dibromofluoromethane (Surr)	*112*		*50 - 150*		*03/07/25 07:57*	*1*
Toluene-d8 (Surr)	*110*		*71 - 126*		*03/07/25 07:57*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1024609/3
Matrix: Solid
Analysis Batch: 1024609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0195		mg/Kg		98	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0184		mg/Kg		92	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0220		mg/Kg		110	75 - 121
1,1,2-Trichloroethane	0.0200	0.0182		mg/Kg		91	80 - 120
1,1-Dichloroethane	0.0200	0.0206		mg/Kg		103	72 - 120
1,1-Dichloroethene	0.0200	0.0212		mg/Kg		106	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0160		mg/Kg		80	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0165		mg/Kg		82	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0144	*-	mg/Kg		72	80 - 124
1,2-Dibromoethane	0.0200	0.0163		mg/Kg		81	79 - 120
1,2-Dichlorobenzene	0.0200	0.0184		mg/Kg		92	80 - 120
1,2-Dichloroethane	0.0200	0.0175		mg/Kg		87	70 - 123
1,2-Dichloropropane	0.0200	0.0201		mg/Kg		101	73 - 124
1,3-Dichlorobenzene	0.0200	0.0191		mg/Kg		95	80 - 120
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		92	80 - 120
2-Butanone (MEK)	0.100	0.0906		mg/Kg		91	64 - 128
2-Hexanone	0.100	0.0820		mg/Kg		82	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0867		mg/Kg		87	80 - 120
Acetone	0.100	0.0910		mg/Kg		91	58 - 122
Benzene	0.0200	0.0196		mg/Kg		98	75 - 120
Bromodichloromethane	0.0200	0.0184		mg/Kg		92	77 - 124
Bromoform	0.0200	0.0146		mg/Kg		73	61 - 125
Bromomethane	0.0200	0.0556	*+	mg/Kg		278	37 - 150
Carbon disulfide	0.0200	0.0206		mg/Kg		103	57 - 133
Carbon tetrachloride	0.0200	0.0181		mg/Kg		90	66 - 127
Chlorobenzene	0.0200	0.0183		mg/Kg		92	80 - 120
Chlorobromomethane	0.0200	0.0192		mg/Kg		96	76 - 127
Chloroethane	0.0200	0.0201		mg/Kg		100	60 - 123
Chloroform	0.0200	0.0203		mg/Kg		102	79 - 126
Chloromethane	0.0200	0.0198		mg/Kg		99	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0199		mg/Kg		100	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0179		mg/Kg		89	75 - 120
Cyclohexane	0.0200	0.0209		mg/Kg		104	65 - 132
Dibromochloromethane	0.0200	0.0156		mg/Kg		78	72 - 120
Dichlorodifluoromethane	0.0200	0.0172		mg/Kg		86	45 - 129
Ethylbenzene	0.0200	0.0185		mg/Kg		92	80 - 120
Isopropylbenzene	0.0200	0.0187		mg/Kg		93	74 - 120
Methyl acetate	0.0400	0.0364		mg/Kg		91	57 - 120
Methyl tert-butyl ether	0.0200	0.0178		mg/Kg		89	74 - 125
Methylcyclohexane	0.0200	0.0203		mg/Kg		101	66 - 125
Methylene Chloride	0.0200	0.0192		mg/Kg		96	78 - 120
m-Xylene & p-Xylene	0.0200	0.0178		mg/Kg		89	80 - 120
o-Xylene	0.0200	0.0178		mg/Kg		89	80 - 120
Styrene	0.0200	0.0177		mg/Kg		89	80 - 120
Tetrachloroethene	0.0200	0.0170		mg/Kg		85	73 - 120
Toluene	0.0200	0.0189		mg/Kg		94	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0208		mg/Kg		104	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0161		mg/Kg		80	77 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1024609/3
Matrix: Solid
Analysis Batch: 1024609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	0.0200	0.0198		mg/Kg		99	80 - 120
Trichlorofluoromethane	0.0200	0.0192		mg/Kg		96	61 - 130
Vinyl chloride	0.0200	0.0218		mg/Kg		109	54 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*65 - 138*
4-Bromofluorobenzene	*98*		*71 - 128*
Dibromofluoromethane (Surr)	*113*		*50 - 150*
Toluene-d8 (Surr)	*104*		*71 - 126*

Lab Sample ID: LCSD 460-1024609/4
Matrix: Solid
Analysis Batch: 1024609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0203		mg/Kg		101	78 - 120	4	30
1,1,2,2-Tetrachloroethane	0.0200	0.0214		mg/Kg		107	70 - 133	15	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0230		mg/Kg		115	75 - 121	5	30
1,1,2-Trichloroethane	0.0200	0.0201		mg/Kg		100	80 - 120	10	30
1,1-Dichloroethane	0.0200	0.0214		mg/Kg		107	72 - 120	4	30
1,1-Dichloroethene	0.0200	0.0219		mg/Kg		109	76 - 120	3	30
1,2,3-Trichlorobenzene	0.0200	0.0181		mg/Kg		90	77 - 137	12	30
1,2,4-Trichlorobenzene	0.0200	0.0186		mg/Kg		93	77 - 136	12	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0154	*-	mg/Kg		77	80 - 124	7	30
1,2-Dibromoethane	0.0200	0.0175		mg/Kg		87	79 - 120	7	30
1,2-Dichlorobenzene	0.0200	0.0199		mg/Kg		100	80 - 120	8	30
1,2-Dichloroethane	0.0200	0.0186		mg/Kg		93	70 - 123	6	30
1,2-Dichloropropane	0.0200	0.0208		mg/Kg		104	73 - 124	4	30
1,3-Dichlorobenzene	0.0200	0.0208		mg/Kg		104	80 - 120	9	30
1,4-Dichlorobenzene	0.0200	0.0203		mg/Kg		101	80 - 120	9	30
2-Butanone (MEK)	0.100	0.0970		mg/Kg		97	64 - 128	7	30
2-Hexanone	0.100	0.0898		mg/Kg		90	75 - 120	9	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0951		mg/Kg		95	80 - 120	9	30
Acetone	0.100	0.0979		mg/Kg		98	58 - 122	7	30
Benzene	0.0200	0.0211		mg/Kg		105	75 - 120	7	30
Bromodichloromethane	0.0200	0.0196		mg/Kg		98	77 - 124	6	30
Bromoform	0.0200	0.0150		mg/Kg		75	61 - 125	3	30
Bromomethane	0.0200	0.0554	*+	mg/Kg		277	37 - 150	0	30
Carbon disulfide	0.0200	0.0212		mg/Kg		106	57 - 133	3	30
Carbon tetrachloride	0.0200	0.0193		mg/Kg		97	66 - 127	7	30
Chlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120	7	30
Chlorobromomethane	0.0200	0.0192		mg/Kg		96	76 - 127	0	30
Chloroethane	0.0200	0.0202		mg/Kg		101	60 - 123	1	30
Chloroform	0.0200	0.0207		mg/Kg		104	79 - 126	2	30
Chloromethane	0.0200	0.0200		mg/Kg		100	46 - 122	1	30
cis-1,2-Dichloroethene	0.0200	0.0207		mg/Kg		104	80 - 123	4	30
cis-1,3-Dichloropropene	0.0200	0.0189		mg/Kg		95	75 - 120	6	30
Cyclohexane	0.0200	0.0218		mg/Kg		109	65 - 132	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1024609/4
Matrix: Solid
Analysis Batch: 1024609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dibromochloromethane			0.0200	0.0169		mg/Kg		85	72 - 120	8	30
Dichlorodifluoromethane			0.0200	0.0182		mg/Kg		91	45 - 129	5	30
Ethylbenzene			0.0200	0.0195		mg/Kg		98	80 - 120	6	30
Isopropylbenzene			0.0200	0.0190		mg/Kg		95	74 - 120	2	30
Methyl acetate			0.0400	0.0408		mg/Kg		102	57 - 120	11	30
Methyl tert-butyl ether			0.0200	0.0197		mg/Kg		98	74 - 125	10	30
Methylcyclohexane			0.0200	0.0204		mg/Kg		102	66 - 125	0	30
Methylene Chloride			0.0200	0.0198		mg/Kg		99	78 - 120	3	30
m-Xylene & p-Xylene			0.0200	0.0181		mg/Kg		90	80 - 120	2	30
o-Xylene			0.0200	0.0189		mg/Kg		95	80 - 120	6	30
Styrene			0.0200	0.0190		mg/Kg		95	80 - 120	7	30
Tetrachloroethene			0.0200	0.0182		mg/Kg		91	73 - 120	7	30
Toluene			0.0200	0.0206		mg/Kg		103	80 - 120	9	30
trans-1,2-Dichloroethene			0.0200	0.0215		mg/Kg		108	78 - 120	4	30
trans-1,3-Dichloropropene			0.0200	0.0178		mg/Kg		89	77 - 120	10	30
Trichloroethene			0.0200	0.0205		mg/Kg		102	80 - 120	4	30
Trichlorofluoromethane			0.0200	0.0193		mg/Kg		97	61 - 130	1	30
Vinyl chloride			0.0200	0.0229		mg/Kg		115	54 - 122	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*65 - 138*
4-Bromofluorobenzene	*116*		*71 - 128*
Dibromofluoromethane (Surr)	*122*		*50 - 150*
Toluene-d8 (Surr)	*116*		*71 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-1018142/1-A
Matrix: Water
Analysis Batch: 1018152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1.2	U	10	1.2	ug/L		01/26/25 10:51	01/26/25 13:57	1
1,2,4-Trichlorobenzene	0.64	U	2.0	0.64	ug/L		01/26/25 10:51	01/26/25 13:57	1
1,2-Dichlorobenzene	0.50	U	10	0.50	ug/L		01/26/25 10:51	01/26/25 13:57	1
1,2-Diphenylhydrazine	0.79	U	10	0.79	ug/L		01/26/25 10:51	01/26/25 13:57	1
1,3-Dichlorobenzene	2.0	U	10	2.0	ug/L		01/26/25 10:51	01/26/25 13:57	1
1,4-Dichlorobenzene	1.1	U	10	1.1	ug/L		01/26/25 10:51	01/26/25 13:57	1
2,4,5-Trichlorophenol	0.88	U	10	0.88	ug/L		01/26/25 10:51	01/26/25 13:57	1
2,4,6-Trichlorophenol	0.86	U	10	0.86	ug/L		01/26/25 10:51	01/26/25 13:57	1
2,4-Dichlorophenol	1.1	U	10	1.1	ug/L		01/26/25 10:51	01/26/25 13:57	1
2,4-Dimethylphenol	0.62	U	10	0.62	ug/L		01/26/25 10:51	01/26/25 13:57	1
2,4-Dinitrophenol	11	U	40	11	ug/L		01/26/25 10:51	01/26/25 13:57	1
2,4-Dinitrotoluene	1.0	U	10	1.0	ug/L		01/26/25 10:51	01/26/25 13:57	1
2,6-Dinitrotoluene	0.83	U	2.0	0.83	ug/L		01/26/25 10:51	01/26/25 13:57	1
2-Chloronaphthalene	1.2	U	10	1.2	ug/L		01/26/25 10:51	01/26/25 13:57	1
2-Chlorophenol	0.95	U	10	0.95	ug/L		01/26/25 10:51	01/26/25 13:57	1
2-Methylnaphthalene	0.53	U	10	0.53	ug/L		01/26/25 10:51	01/26/25 13:57	1
2-Methylphenol	0.67	U	10	0.67	ug/L		01/26/25 10:51	01/26/25 13:57	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018142/1-A
Matrix: Water
Analysis Batch: 1018152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	1.2	U	10	1.2	ug/L		01/26/25 10:51	01/26/25 13:57	1
2-Nitrophenol	0.75	U	10	0.75	ug/L		01/26/25 10:51	01/26/25 13:57	1
3,3'-Dichlorobenzidine	1.4	U	10	1.4	ug/L		01/26/25 10:51	01/26/25 13:57	1
3-Nitroaniline	1.9	U	10	1.9	ug/L		01/26/25 10:51	01/26/25 13:57	1
4,6-Dinitro-2-methylphenol	8.6	U	20	8.6	ug/L		01/26/25 10:51	01/26/25 13:57	1
4-Bromophenyl phenyl ether	0.75	U	10	0.75	ug/L		01/26/25 10:51	01/26/25 13:57	1
4-Chloro-3-methylphenol	1.3	U	10	1.3	ug/L		01/26/25 10:51	01/26/25 13:57	1
4-Chloroaniline	1.9	U	10	1.9	ug/L		01/26/25 10:51	01/26/25 13:57	1
4-Chlorophenyl phenyl ether	1.3	U	10	1.3	ug/L		01/26/25 10:51	01/26/25 13:57	1
4-Methylphenol	0.65	U	10	0.65	ug/L		01/26/25 10:51	01/26/25 13:57	1
4-Nitroaniline	1.2	U	10	1.2	ug/L		01/26/25 10:51	01/26/25 13:57	1
4-Nitrophenol	4.0	U	20	4.0	ug/L		01/26/25 10:51	01/26/25 13:57	1
Acenaphthene	1.1	U	10	1.1	ug/L		01/26/25 10:51	01/26/25 13:57	1
Acenaphthylene	0.82	U	10	0.82	ug/L		01/26/25 10:51	01/26/25 13:57	1
Acetophenone	2.3	U	10	2.3	ug/L		01/26/25 10:51	01/26/25 13:57	1
Anthracene	1.3	U	10	1.3	ug/L		01/26/25 10:51	01/26/25 13:57	1
Atrazine	1.3	U	2.0	1.3	ug/L		01/26/25 10:51	01/26/25 13:57	1
Benzaldehyde	2.1	U	10	2.1	ug/L		01/26/25 10:51	01/26/25 13:57	1
Benzidine	2.8	U	20	2.8	ug/L		01/26/25 10:51	01/26/25 13:57	1
Benzo[a]anthracene	0.59	U	1.0	0.59	ug/L		01/26/25 10:51	01/26/25 13:57	1
Benzo[a]pyrene	0.41	U	1.0	0.41	ug/L		01/26/25 10:51	01/26/25 13:57	1
Benzo[b]fluoranthene	0.68	U	2.0	0.68	ug/L		01/26/25 10:51	01/26/25 13:57	1
Benzo[g,h,i]perylene	0.70	U	10	0.70	ug/L		01/26/25 10:51	01/26/25 13:57	1
Benzo[k]fluoranthene	0.67	U	1.0	0.67	ug/L		01/26/25 10:51	01/26/25 13:57	1
bis (2-chloroisopropyl) ether	0.63	U	10	0.63	ug/L		01/26/25 10:51	01/26/25 13:57	1
Bis(2-chloroethoxy)methane	0.59	U	10	0.59	ug/L		01/26/25 10:51	01/26/25 13:57	1
Bis(2-chloroethyl)ether	0.63	U	1.0	0.63	ug/L		01/26/25 10:51	01/26/25 13:57	1
Bis(2-ethylhexyl) phthalate	0.80	U	2.0	0.80	ug/L		01/26/25 10:51	01/26/25 13:57	1
Butyl benzyl phthalate	0.85	U	10	0.85	ug/L		01/26/25 10:51	01/26/25 13:57	1
Caprolactam	2.2	U	10	2.2	ug/L		01/26/25 10:51	01/26/25 13:57	1
Carbazole	0.68	U	10	0.68	ug/L		01/26/25 10:51	01/26/25 13:57	1
Chrysene	0.91	U	2.0	0.91	ug/L		01/26/25 10:51	01/26/25 13:57	1
Dibenz(a,h)anthracene	0.72	U	1.0	0.72	ug/L		01/26/25 10:51	01/26/25 13:57	1
Dibenzofuran	1.1	U	10	1.1	ug/L		01/26/25 10:51	01/26/25 13:57	1
Diethyl phthalate	0.98	U	10	0.98	ug/L		01/26/25 10:51	01/26/25 13:57	1
Dimethyl phthalate	0.77	U	10	0.77	ug/L		01/26/25 10:51	01/26/25 13:57	1
Di-n-butyl phthalate	0.84	U	10	0.84	ug/L		01/26/25 10:51	01/26/25 13:57	1
Di-n-octyl phthalate	4.0	U	10	4.0	ug/L		01/26/25 10:51	01/26/25 13:57	1
Fluoranthene	0.84	U	10	0.84	ug/L		01/26/25 10:51	01/26/25 13:57	1
Fluorene	0.91	U	10	0.91	ug/L		01/26/25 10:51	01/26/25 13:57	1
Hexachlorobenzene	0.40	U	1.0	0.40	ug/L		01/26/25 10:51	01/26/25 13:57	1
Hexachlorobutadiene	0.78	U	1.0	0.78	ug/L		01/26/25 10:51	01/26/25 13:57	1
Hexachlorocyclopentadiene	3.6	U	10	3.6	ug/L		01/26/25 10:51	01/26/25 13:57	1
Hexachloroethane	0.80	U	2.0	0.80	ug/L		01/26/25 10:51	01/26/25 13:57	1
Indeno[1,2,3-cd]pyrene	0.94	U	2.0	0.94	ug/L		01/26/25 10:51	01/26/25 13:57	1
Isophorone	0.80	U	10	0.80	ug/L		01/26/25 10:51	01/26/25 13:57	1
Naphthalene	0.54	U	2.0	0.54	ug/L		01/26/25 10:51	01/26/25 13:57	1
Nitrobenzene	0.57	U	1.0	0.57	ug/L		01/26/25 10:51	01/26/25 13:57	1
N-Nitrosodimethylamine	0.45	U	10	0.45	ug/L		01/26/25 10:51	01/26/25 13:57	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018142/1-A
Matrix: Water
Analysis Batch: 1018152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.43	U	1.0	0.43	ug/L		01/26/25 10:51	01/26/25 13:57	1
N-Nitrosodiphenylamine	0.89	U	10	0.89	ug/L		01/26/25 10:51	01/26/25 13:57	1
Pentachlorophenol	6.6	U	20	6.6	ug/L		01/26/25 10:51	01/26/25 13:57	1
Phenanthrene	1.3	U	10	1.3	ug/L		01/26/25 10:51	01/26/25 13:57	1
Phenol	0.29	U	10	0.29	ug/L		01/26/25 10:51	01/26/25 13:57	1
Pyrene	1.6	U	10	1.6	ug/L		01/26/25 10:51	01/26/25 13:57	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*01/26/25 10:51*	*01/26/25 13:57*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*37 - 150*	*01/26/25 10:51*	*01/26/25 13:57*	*1*
2-Fluorobiphenyl	*88*		*46 - 139*	*01/26/25 10:51*	*01/26/25 13:57*	*1*
2-Fluorophenol (Surr)	*68*		*16 - 80*	*01/26/25 10:51*	*01/26/25 13:57*	*1*
Nitrobenzene-d5 (Surr)	*89*		*51 - 145*	*01/26/25 10:51*	*01/26/25 13:57*	*1*
Phenol-d5 (Surr)	*51*		*10 - 56*	*01/26/25 10:51*	*01/26/25 13:57*	*1*
Terphenyl-d14 (Surr)	*66*		*13 - 159*	*01/26/25 10:51*	*01/26/25 13:57*	*1*

Lab Sample ID: LCS 460-1018142/2-A
Matrix: Water
Analysis Batch: 1018152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	80.0	70.1		ug/L		88	52 - 129
1,2,4-Trichlorobenzene	80.0	68.6		ug/L		86	20 - 135
1,2-Dichlorobenzene	80.0	67.7		ug/L		85	18 - 128
1,2-Diphenylhydrazine	80.0	71.0		ug/L		89	58 - 130
1,3-Dichlorobenzene	80.0	65.0		ug/L		81	11 - 130
1,4-Dichlorobenzene	80.0	66.3		ug/L		83	14 - 129
2,4,5-Trichlorophenol	80.0	67.2		ug/L		84	63 - 124
2,4,6-Trichlorophenol	80.0	71.1		ug/L		89	66 - 131
2,4-Dichlorophenol	80.0	66.3		ug/L		83	60 - 120
2,4-Dimethylphenol	80.0	74.3		ug/L		93	37 - 120
2,4-Dinitrophenol	160	129		ug/L		80	50 - 148
2,4-Dinitrotoluene	80.0	76.1		ug/L		95	71 - 142
2,6-Dinitrotoluene	80.0	73.5		ug/L		92	71 - 136
2-Chloronaphthalene	80.0	68.6		ug/L		86	50 - 129
2-Chlorophenol	80.0	58.7		ug/L		73	49 - 120
2-Methylnaphthalene	80.0	61.7		ug/L		77	42 - 134
2-Methylphenol	80.0	54.0		ug/L		67	35 - 120
2-Nitroaniline	80.0	67.9		ug/L		85	57 - 134
2-Nitrophenol	80.0	65.5		ug/L		82	62 - 124
3,3'-Dichlorobenzidine	80.0	62.1		ug/L		78	55 - 145
3-Nitroaniline	80.0	52.1		ug/L		65	51 - 120
4,6-Dinitro-2-methylphenol	160	145		ug/L		91	65 - 145
4-Bromophenyl phenyl ether	80.0	70.7		ug/L		88	59 - 132
4-Chloro-3-methylphenol	80.0	62.2		ug/L		78	54 - 120
4-Chloroaniline	80.0	45.6		ug/L		57	43 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018142/2-A
Matrix: Water
Analysis Batch: 1018152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	80.0	71.1		ug/L		89	65 - 127
4-Methylphenol	80.0	48.9		ug/L		61	28 - 120
4-Nitroaniline	80.0	65.9		ug/L		82	57 - 135
4-Nitrophenol	160	64.0		ug/L		40	10 - 120
Acenaphthene	80.0	69.5		ug/L		87	62 - 127
Acenaphthylene	80.0	74.4		ug/L		93	58 - 122
Acetophenone	80.0	69.1		ug/L		86	65 - 125
Anthracene	80.0	72.3		ug/L		90	67 - 127
Atrazine	40.0	41.9		ug/L		105	13 - 150
Benzaldehyde	40.0	39.4		ug/L		99	10 - 150
Benzidine	80.0	25.7		ug/L		32	10 - 120
Benzo[a]anthracene	80.0	70.3		ug/L		88	71 - 131
Benzo[a]pyrene	80.0	79.1		ug/L		99	75 - 148
Benzo[b]fluoranthene	80.0	73.2		ug/L		92	70 - 140
Benzo[g,h,i]perylene	80.0	74.7		ug/L		93	52 - 143
Benzo[k]fluoranthene	80.0	77.0		ug/L		96	71 - 140
bis (2-chloroisopropyl) ether	80.0	65.9		ug/L		82	47 - 133
Bis(2-chloroethoxy)methane	80.0	67.8		ug/L		85	63 - 122
Bis(2-chloroethyl)ether	80.0	68.0		ug/L		85	61 - 125
Bis(2-ethylhexyl) phthalate	80.0	69.4		ug/L		87	65 - 144
Butyl benzyl phthalate	80.0	68.6		ug/L		86	67 - 141
Caprolactam	40.0	8.09	J	ug/L		20	10 - 120
Carbazole	80.0	70.8		ug/L		88	68 - 132
Chrysene	80.0	70.7		ug/L		88	70 - 132
Dibenz(a,h)anthracene	80.0	71.3		ug/L		89	53 - 150
Dibenzofuran	80.0	69.8		ug/L		87	64 - 125
Diethyl phthalate	80.0	66.4		ug/L		83	67 - 131
Dimethyl phthalate	80.0	69.6		ug/L		87	67 - 129
Di-n-butyl phthalate	80.0	66.0		ug/L		82	71 - 139
Di-n-octyl phthalate	80.0	68.9		ug/L		86	51 - 150
Fluoranthene	80.0	71.2		ug/L		89	69 - 137
Fluorene	80.0	72.3		ug/L		90	67 - 125
Hexachlorobenzene	80.0	69.8		ug/L		87	62 - 135
Hexachlorobutadiene	80.0	67.4		ug/L		84	10 - 147
Hexachlorocyclopentadiene	80.0	85.4		ug/L		107	10 - 135
Hexachloroethane	80.0	66.8		ug/L		83	10 - 138
Indeno[1,2,3-cd]pyrene	80.0	69.9		ug/L		87	59 - 150
Isophorone	80.0	71.5		ug/L		89	65 - 128
Naphthalene	80.0	68.7		ug/L		86	39 - 126
Nitrobenzene	80.0	72.4		ug/L		91	66 - 127
N-Nitrosodimethylamine	80.0	34.0		ug/L		42	11 - 120
N-Nitrosodi-n-propylamine	80.0	69.5		ug/L		87	63 - 133
N-Nitrosodiphenylamine	80.0	69.9		ug/L		87	66 - 128
Pentachlorophenol	160	137		ug/L		85	60 - 140
Phenanthrene	80.0	69.1		ug/L		86	68 - 126
Phenol	80.0	27.7		ug/L		35	10 - 80
Pyrene	80.0	71.4		ug/L		89	60 - 137

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018142/2-A
Matrix: Water
Analysis Batch: 1018152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*82*		*37 - 150*
2-Fluorobiphenyl	*80*		*46 - 139*
2-Fluorophenol (Surr)	*45*		*16 - 80*
Nitrobenzene-d5 (Surr)	*83*		*51 - 145*
Phenol-d5 (Surr)	*32*		*10 - 56*
Terphenyl-d14 (Surr)	*61*		*13 - 159*

Lab Sample ID: LCSD 460-1018142/3-A
Matrix: Water
Analysis Batch: 1018152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			80.0	70.7		ug/L		88	52 - 129	1	30
1,2,4-Trichlorobenzene			80.0	69.0		ug/L		86	20 - 135	1	30
1,2-Dichlorobenzene			80.0	67.5		ug/L		84	18 - 128	0	30
1,2-Diphenylhydrazine			80.0	71.3		ug/L		89	58 - 130	0	30
1,3-Dichlorobenzene			80.0	65.1		ug/L		81	11 - 130	0	30
1,4-Dichlorobenzene			80.0	66.0		ug/L		83	14 - 129	0	30
2,4,5-Trichlorophenol			80.0	69.6		ug/L		87	63 - 124	3	30
2,4,6-Trichlorophenol			80.0	70.7		ug/L		88	66 - 131	1	30
2,4-Dichlorophenol			80.0	66.1		ug/L		83	60 - 120	0	30
2,4-Dimethylphenol			80.0	74.8		ug/L		93	37 - 120	1	30
2,4-Dinitrophenol			160	131		ug/L		82	50 - 148	2	30
2,4-Dinitrotoluene			80.0	77.1		ug/L		96	71 - 142	1	30
2,6-Dinitrotoluene			80.0	74.3		ug/L		93	71 - 136	1	30
2-Chloronaphthalene			80.0	68.7		ug/L		86	50 - 129	0	30
2-Chlorophenol			80.0	58.3		ug/L		73	49 - 120	1	30
2-Methylnaphthalene			80.0	62.6		ug/L		78	42 - 134	2	30
2-Methylphenol			80.0	53.0		ug/L		66	35 - 120	2	30
2-Nitroaniline			80.0	69.1		ug/L		86	57 - 134	2	30
2-Nitrophenol			80.0	67.1		ug/L		84	62 - 124	2	30
3,3'-Dichlorobenzidine			80.0	61.1		ug/L		76	55 - 145	2	30
3-Nitroaniline			80.0	52.6		ug/L		66	51 - 120	1	30
4,6-Dinitro-2-methylphenol			160	146		ug/L		91	65 - 145	0	30
4-Bromophenyl phenyl ether			80.0	72.2		ug/L		90	59 - 132	2	30
4-Chloro-3-methylphenol			80.0	61.8		ug/L		77	54 - 120	1	30
4-Chloroaniline			80.0	46.2		ug/L		58	43 - 120	1	30
4-Chlorophenyl phenyl ether			80.0	71.3		ug/L		89	65 - 127	0	30
4-Methylphenol			80.0	48.9		ug/L		61	28 - 120	0	30
4-Nitroaniline			80.0	66.0		ug/L		82	57 - 135	0	30
4-Nitrophenol			160	63.4		ug/L		40	10 - 120	1	30
Acenaphthene			80.0	69.6		ug/L		87	62 - 127	0	30
Acenaphthylene			80.0	74.7		ug/L		93	58 - 122	0	30
Acetophenone			80.0	67.6		ug/L		84	65 - 125	2	30
Anthracene			80.0	71.4		ug/L		89	67 - 127	1	30
Atrazine			40.0	42.5		ug/L		106	13 - 150	1	30
Benzaldehyde			40.0	39.2		ug/L		98	10 - 150	1	30
Benzidine			80.0	26.7		ug/L		33	10 - 120	4	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1018142/3-A
Matrix: Water
Analysis Batch: 1018152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]anthracene			80.0	69.3		ug/L		87	71 - 131	2	30
Benzo[a]pyrene			80.0	79.1		ug/L		99	75 - 148	0	30
Benzo[b]fluoranthene			80.0	74.0		ug/L		92	70 - 140	1	30
Benzo[g,h,i]perylene			80.0	72.7		ug/L		91	52 - 143	3	30
Benzo[k]fluoranthene			80.0	76.1		ug/L		95	71 - 140	1	30
bis (2-chloroisopropyl) ether			80.0	65.4		ug/L		82	47 - 133	1	30
Bis(2-chloroethoxy)methane			80.0	69.2		ug/L		87	63 - 122	2	30
Bis(2-chloroethyl)ether			80.0	67.7		ug/L		85	61 - 125	0	30
Bis(2-ethylhexyl) phthalate			80.0	69.4		ug/L		87	65 - 144	0	30
Butyl benzyl phthalate			80.0	67.8		ug/L		85	67 - 141	1	30
Caprolactam			40.0	8.29	J	ug/L		21	10 - 120	2	30
Carbazole			80.0	71.1		ug/L		89	68 - 132	0	30
Chrysene			80.0	68.7		ug/L		86	70 - 132	3	30
Dibenz(a,h)anthracene			80.0	69.8		ug/L		87	53 - 150	2	30
Dibenzofuran			80.0	70.2		ug/L		88	64 - 125	1	30
Diethyl phthalate			80.0	66.6		ug/L		83	67 - 131	0	30
Dimethyl phthalate			80.0	69.8		ug/L		87	67 - 129	0	30
Di-n-butyl phthalate			80.0	67.3		ug/L		84	71 - 139	2	30
Di-n-octyl phthalate			80.0	70.3		ug/L		88	51 - 150	2	30
Fluoranthene			80.0	71.7		ug/L		90	69 - 137	1	30
Fluorene			80.0	71.5		ug/L		89	67 - 125	1	30
Hexachlorobenzene			80.0	69.3		ug/L		87	62 - 135	1	30
Hexachlorobutadiene			80.0	68.1		ug/L		85	10 - 147	1	30
Hexachlorocyclopentadiene			80.0	86.9		ug/L		109	10 - 135	2	30
Hexachloroethane			80.0	65.8		ug/L		82	10 - 138	1	30
Indeno[1,2,3-cd]pyrene			80.0	70.1		ug/L		88	59 - 150	0	30
Isophorone			80.0	71.0		ug/L		89	65 - 128	1	30
Naphthalene			80.0	69.2		ug/L		86	39 - 126	1	30
Nitrobenzene			80.0	72.2		ug/L		90	66 - 127	0	30
N-Nitrosodimethylamine			80.0	33.0		ug/L		41	11 - 120	3	30
N-Nitrosodi-n-propylamine			80.0	69.0		ug/L		86	63 - 133	1	30
N-Nitrosodiphenylamine			80.0	70.4		ug/L		88	66 - 128	1	30
Pentachlorophenol			160	139		ug/L		87	60 - 140	2	30
Phenanthrene			80.0	69.8		ug/L		87	68 - 126	1	30
Phenol			80.0	27.2		ug/L		34	10 - 80	2	30
Pyrene			80.0	70.2		ug/L		88	60 - 137	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*82*		*37 - 150*
2-Fluorobiphenyl	*80*		*46 - 139*
2-Fluorophenol (Surr)	*45*		*16 - 80*
Nitrobenzene-d5 (Surr)	*83*		*51 - 145*
Phenol-d5 (Surr)	*32*		*10 - 56*
Terphenyl-d14 (Surr)	*61*		*13 - 159*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018392/1-A
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		01/28/25 10:34	01/28/25 20:42	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018392/1-A
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.014	U	0.33	0.014	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Phenol	0.012	U	0.33	0.012	mg/Kg		01/28/25 10:34	01/28/25 20:42	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		01/28/25 10:34	01/28/25 20:42	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*01/28/25 10:34*	*01/28/25 20:42*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*24 - 137*	*01/28/25 10:34*	*01/28/25 20:42*	*1*
2-Fluorobiphenyl	*83*		*38 - 128*	*01/28/25 10:34*	*01/28/25 20:42*	*1*
2-Fluorophenol (Surr)	*77*		*31 - 133*	*01/28/25 10:34*	*01/28/25 20:42*	*1*
Nitrobenzene-d5 (Surr)	*81*		*31 - 120*	*01/28/25 10:34*	*01/28/25 20:42*	*1*
Phenol-d5 (Surr)	*79*		*35 - 132*	*01/28/25 10:34*	*01/28/25 20:42*	*1*
Terphenyl-d14 (Surr)	*84*		*44 - 147*	*01/28/25 10:34*	*01/28/25 20:42*	*1*

Lab Sample ID: LCS 460-1018392/2-A
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.32		mg/Kg		99	64 - 120
1,2,4-Trichlorobenzene	3.33	3.31		mg/Kg		99	63 - 120
1,2-Dichlorobenzene	3.33	3.19		mg/Kg		96	64 - 120
1,2-Diphenylhydrazine	3.33	3.43		mg/Kg		103	55 - 125
1,3-Dichlorobenzene	3.33	3.13		mg/Kg		94	62 - 120
1,4-Dichlorobenzene	3.33	3.22		mg/Kg		97	60 - 120
2,4,5-Trichlorophenol	3.33	3.34		mg/Kg		100	64 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018392/2-A
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	3.33	3.34		mg/Kg		100	65 - 120
2,4-Dichlorophenol	3.33	3.34		mg/Kg		100	66 - 120
2,4-Dimethylphenol	3.33	3.79		mg/Kg		114	46 - 120
2,4-Dinitrophenol	6.67	5.14		mg/Kg		77	41 - 129
2,4-Dinitrotoluene	3.33	3.29		mg/Kg		99	65 - 124
2,6-Dinitrotoluene	3.33	3.35		mg/Kg		100	67 - 121
2-Chloronaphthalene	3.33	3.29		mg/Kg		99	64 - 120
2-Chlorophenol	3.33	3.17		mg/Kg		95	63 - 120
2-Methylnaphthalene	3.33	2.83		mg/Kg		85	64 - 120
2-Methylphenol	3.33	3.22		mg/Kg		97	63 - 120
2-Nitroaniline	3.33	2.93		mg/Kg		88	48 - 120
2-Nitrophenol	3.33	3.26		mg/Kg		98	64 - 120
3,3'-Dichlorobenzidine	3.33	1.22		mg/Kg		37	10 - 120
3-Nitroaniline	3.33	1.82		mg/Kg		55	18 - 122
4,6-Dinitro-2-methylphenol	6.67	6.71		mg/Kg		101	58 - 136
4-Bromophenyl phenyl ether	3.33	3.42		mg/Kg		102	60 - 120
4-Chloro-3-methylphenol	3.33	3.23		mg/Kg		97	66 - 120
4-Chloroaniline	3.33	0.924		mg/Kg		28	10 - 120
4-Chlorophenyl phenyl ether	3.33	3.22		mg/Kg		97	62 - 120
4-Methylphenol	3.33	3.08		mg/Kg		92	61 - 120
4-Nitroaniline	3.33	2.68		mg/Kg		80	51 - 120
4-Nitrophenol	6.67	5.27		mg/Kg		79	42 - 132
Acenaphthene	3.33	3.25		mg/Kg		97	65 - 120
Acenaphthylene	3.33	3.48		mg/Kg		104	64 - 120
Acetophenone	3.33	3.06		mg/Kg		92	61 - 120
Anthracene	3.33	3.35		mg/Kg		101	67 - 120
Atrazine	1.33	1.47		mg/Kg		110	32 - 150
Benzaldehyde	1.33	1.25		mg/Kg		94	28 - 150
Benzidine	3.33	1.57		mg/Kg		47	10 - 120
Benzo[a]anthracene	3.33	3.19		mg/Kg		96	66 - 120
Benzo[a]pyrene	3.33	3.66		mg/Kg		110	73 - 123
Benzo[b]fluoranthene	3.33	3.44		mg/Kg		103	70 - 125
Benzo[g,h,i]perylene	3.33	3.83		mg/Kg		115	66 - 120
Benzo[k]fluoranthene	3.33	3.51		mg/Kg		105	67 - 122
bis (2-chloroisopropyl) ether	3.33	3.16		mg/Kg		95	46 - 126
Bis(2-chloroethoxy)methane	3.33	3.21		mg/Kg		96	62 - 120
Bis(2-chloroethyl)ether	3.33	3.09		mg/Kg		93	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.25		mg/Kg		97	64 - 125
Butyl benzyl phthalate	3.33	3.22		mg/Kg		97	62 - 127
Caprolactam	1.33	1.24		mg/Kg		93	36 - 150
Carbazole	3.33	3.22		mg/Kg		97	64 - 120
Chrysene	3.33	3.15		mg/Kg		95	67 - 120
Dibenz(a,h)anthracene	3.33	3.71		mg/Kg		111	66 - 128
Dibenzofuran	3.33	3.26		mg/Kg		98	61 - 120
Diethyl phthalate	3.33	3.19		mg/Kg		96	63 - 120
Dimethyl phthalate	3.33	3.19		mg/Kg		96	65 - 120
Di-n-butyl phthalate	3.33	3.06		mg/Kg		92	66 - 120
Di-n-octyl phthalate	3.33	3.19		mg/Kg		96	61 - 123
Fluoranthene	3.33	3.18		mg/Kg		95	61 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018392/2-A
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018392

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluorene			3.33	3.29		mg/Kg		99	64 - 120		
Hexachlorobenzene			3.33	3.43		mg/Kg		103	66 - 120		
Hexachlorobutadiene			3.33	3.33		mg/Kg		100	62 - 120		
Hexachlorocyclopentadiene			3.33	3.75		mg/Kg		112	13 - 120		
Hexachloroethane			3.33	3.25		mg/Kg		98	61 - 120		
Indeno[1,2,3-cd]pyrene			3.33	4.51		mg/Kg		135	71 - 137		
Isophorone			3.33	3.27		mg/Kg		98	61 - 120		
Naphthalene			3.33	3.26		mg/Kg		98	63 - 120		
Nitrobenzene			3.33	3.07		mg/Kg		92	63 - 120		
N-Nitrosodimethylamine			3.33	2.82		mg/Kg		85	57 - 120		
N-Nitrosodi-n-propylamine			3.33	3.26		mg/Kg		98	56 - 120		
N-Nitrosodiphenylamine			3.33	3.37		mg/Kg		101	63 - 120		
Pentachlorophenol			6.67	5.52		mg/Kg		83	61 - 126		
Phenanthrene			3.33	3.31		mg/Kg		99	66 - 120		
Phenol			3.33	3.22		mg/Kg		97	63 - 120		
Pyrene			3.33	3.43		mg/Kg		103	61 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*24 - 137*
2-Fluorobiphenyl	*86*		*38 - 128*
2-Fluorophenol (Surr)	*78*		*31 - 133*
Nitrobenzene-d5 (Surr)	*88*		*31 - 120*
Phenol-d5 (Surr)	*80*		*35 - 132*
Terphenyl-d14 (Surr)	*84*		*44 - 147*

Lab Sample ID: LCSD 460-1018392/3-A
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018392

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	3.28		mg/Kg		99	64 - 120	1	30
1,2,4-Trichlorobenzene			3.33	3.22		mg/Kg		96	63 - 120	3	30
1,2-Dichlorobenzene			3.33	3.17		mg/Kg		95	64 - 120	1	30
1,2-Diphenylhydrazine			3.33	3.33		mg/Kg		100	55 - 125	3	30
1,3-Dichlorobenzene			3.33	3.19		mg/Kg		96	62 - 120	2	30
1,4-Dichlorobenzene			3.33	3.22		mg/Kg		96	60 - 120	0	30
2,4,5-Trichlorophenol			3.33	3.36		mg/Kg		101	64 - 120	1	30
2,4,6-Trichlorophenol			3.33	3.27		mg/Kg		98	65 - 120	2	30
2,4-Dichlorophenol			3.33	3.26		mg/Kg		98	66 - 120	2	30
2,4-Dimethylphenol			3.33	3.68		mg/Kg		110	46 - 120	3	30
2,4-Dinitrophenol			6.67	5.10		mg/Kg		77	41 - 129	1	30
2,4-Dinitrotoluene			3.33	3.30		mg/Kg		99	65 - 124	0	30
2,6-Dinitrotoluene			3.33	3.23		mg/Kg		97	67 - 121	4	30
2-Chloronaphthalene			3.33	3.25		mg/Kg		97	64 - 120	1	30
2-Chlorophenol			3.33	3.17		mg/Kg		95	63 - 120	0	30
2-Methylnaphthalene			3.33	2.80		mg/Kg		84	64 - 120	1	30
2-Methylphenol			3.33	3.27		mg/Kg		98	63 - 120	1	30
2-Nitroaniline			3.33	2.93		mg/Kg		88	48 - 120	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1018392/3-A
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Nitrophenol	3.33	3.18		mg/Kg		95	64 - 120	3	30
3,3'-Dichlorobenzidine	3.33	1.19		mg/Kg		36	10 - 120	3	30
3-Nitroaniline	3.33	1.76		mg/Kg		53	18 - 122	4	30
4,6-Dinitro-2-methylphenol	6.67	6.62		mg/Kg		99	58 - 136	1	30
4-Bromophenyl phenyl ether	3.33	3.33		mg/Kg		100	60 - 120	3	30
4-Chloro-3-methylphenol	3.33	3.11		mg/Kg		93	66 - 120	4	30
4-Chloroaniline	3.33	0.838		mg/Kg		25	10 - 120	10	30
4-Chlorophenyl phenyl ether	3.33	3.18		mg/Kg		95	62 - 120	1	30
4-Methylphenol	3.33	3.08		mg/Kg		92	61 - 120	0	30
4-Nitroaniline	3.33	2.51		mg/Kg		75	51 - 120	7	30
4-Nitrophenol	6.67	5.29		mg/Kg		79	42 - 132	0	30
Acenaphthene	3.33	3.18		mg/Kg		95	65 - 120	2	30
Acenaphthylene	3.33	3.43		mg/Kg		103	64 - 120	1	30
Acetophenone	3.33	3.07		mg/Kg		92	61 - 120	0	30
Anthracene	3.33	3.26		mg/Kg		98	67 - 120	3	30
Atrazine	1.33	1.72		mg/Kg		129	32 - 150	16	30
Benzaldehyde	1.33	1.52		mg/Kg		114	28 - 150	20	30
Benzidine	3.33	1.55		mg/Kg		47	10 - 120	1	30
Benzo[a]anthracene	3.33	3.14		mg/Kg		94	66 - 120	2	30
Benzo[a]pyrene	3.33	3.55		mg/Kg		106	73 - 123	3	30
Benzo[b]fluoranthene	3.33	3.34		mg/Kg		100	70 - 125	3	30
Benzo[g,h,i]perylene	3.33	3.75		mg/Kg		112	66 - 120	2	30
Benzo[k]fluoranthene	3.33	3.42		mg/Kg		102	67 - 122	3	30
bis (2-chloroisopropyl) ether	3.33	3.14		mg/Kg		94	46 - 126	0	30
Bis(2-chloroethoxy)methane	3.33	3.12		mg/Kg		94	62 - 120	3	30
Bis(2-chloroethyl)ether	3.33	3.09		mg/Kg		93	60 - 120	0	30
Bis(2-ethylhexyl) phthalate	3.33	3.22		mg/Kg		97	64 - 125	1	30
Butyl benzyl phthalate	3.33	3.18		mg/Kg		95	62 - 127	1	30
Caprolactam	1.33	1.48		mg/Kg		111	36 - 150	17	30
Carbazole	3.33	3.16		mg/Kg		95	64 - 120	2	30
Chrysene	3.33	3.08		mg/Kg		92	67 - 120	2	30
Dibenz(a,h)anthracene	3.33	3.62		mg/Kg		108	66 - 128	3	30
Dibenzofuran	3.33	3.23		mg/Kg		97	61 - 120	1	30
Diethyl phthalate	3.33	3.13		mg/Kg		94	63 - 120	2	30
Dimethyl phthalate	3.33	3.17		mg/Kg		95	65 - 120	1	30
Di-n-butyl phthalate	3.33	3.03		mg/Kg		91	66 - 120	1	30
Di-n-octyl phthalate	3.33	3.12		mg/Kg		94	61 - 123	2	30
Fluoranthene	3.33	3.08		mg/Kg		93	61 - 120	3	30
Fluorene	3.33	3.24		mg/Kg		97	64 - 120	2	30
Hexachlorobenzene	3.33	3.32		mg/Kg		100	66 - 120	3	30
Hexachlorobutadiene	3.33	3.24		mg/Kg		97	62 - 120	3	30
Hexachlorocyclopentadiene	3.33	3.72		mg/Kg		112	13 - 120	1	30
Hexachloroethane	3.33	3.28		mg/Kg		98	61 - 120	1	30
Indeno[1,2,3-cd]pyrene	3.33	4.40		mg/Kg		132	71 - 137	2	30
Isophorone	3.33	3.19		mg/Kg		96	61 - 120	2	30
Naphthalene	3.33	3.16		mg/Kg		95	63 - 120	3	30
Nitrobenzene	3.33	3.09		mg/Kg		93	63 - 120	0	30
N-Nitrosodimethylamine	3.33	2.89		mg/Kg		87	57 - 120	3	30
N-Nitrosodi-n-propylamine	3.33	3.26		mg/Kg		98	56 - 120	0	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1018392/3-A
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018392

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiphenylamine			3.33	3.32		mg/Kg		99	63 - 120	2	30
Pentachlorophenol			6.67	5.31		mg/Kg		80	61 - 126	4	30
Phenanthrene			3.33	3.20		mg/Kg		96	66 - 120	3	30
Phenol			3.33	2.87		mg/Kg		86	63 - 120	11	30
Pyrene			3.33	3.37		mg/Kg		101	61 - 121	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*24 - 137*
2-Fluorobiphenyl	*87*		*38 - 128*
2-Fluorophenol (Surr)	*82*		*31 - 133*
Nitrobenzene-d5 (Surr)	*90*		*31 - 120*
Phenol-d5 (Surr)	*83*		*35 - 132*
Terphenyl-d14 (Surr)	*86*		*44 - 147*

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.012	U	3.38	2.28		mg/Kg	☼	68	64 - 120
1,2,4-Trichlorobenzene	0.0086	U	3.38	2.15		mg/Kg	☼	64	63 - 120
1,2-Dichlorobenzene	0.0057	U F1	3.38	2.08	F1	mg/Kg	☼	61	64 - 120
1,2-Diphenylhydrazine	0.013	U	3.38	2.36		mg/Kg	☼	70	55 - 125
1,3-Dichlorobenzene	0.010	U F1	3.38	2.04	F1	mg/Kg	☼	60	62 - 120
1,4-Dichlorobenzene	0.013	U	3.38	2.07		mg/Kg	☼	61	60 - 120
2,4,5-Trichlorophenol	0.034	U	3.38	2.24		mg/Kg	☼	66	64 - 120
2,4,6-Trichlorophenol	0.043	U	3.38	2.24		mg/Kg	☼	66	65 - 120
2,4-Dichlorophenol	0.022	U F1	3.38	2.20	F1	mg/Kg	☼	65	66 - 120
2,4-Dimethylphenol	0.040	U	3.38	2.50		mg/Kg	☼	74	46 - 120
2,4-Dinitrophenol	0.16	U	6.75	3.64		mg/Kg	☼	54	41 - 129
2,4-Dinitrotoluene	0.036	U	3.38	2.31		mg/Kg	☼	68	65 - 124
2,6-Dinitrotoluene	0.024	U	3.38	2.26		mg/Kg	☼	67	67 - 121
2-Chloronaphthalene	0.016	U	3.38	2.27		mg/Kg	☼	67	64 - 120
2-Chlorophenol	0.012	U F1	3.38	2.09	F1	mg/Kg	☼	62	63 - 120
2-Methylnaphthalene	0.0094	U F1	3.38	1.90	F1	mg/Kg	☼	56	64 - 120
2-Methylphenol	0.013	U	3.38	2.17		mg/Kg	☼	64	63 - 120
2-Nitroaniline	0.026	U	3.38	2.01		mg/Kg	☼	60	48 - 120
2-Nitrophenol	0.034	U	3.38	2.14		mg/Kg	☼	64	64 - 120
3,3'-Dichlorobenzidine	0.051	U	3.38	1.19		mg/Kg	☼	35	10 - 120
3-Nitroaniline	0.080	U	3.38	1.64		mg/Kg	☼	48	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U	6.75	4.56		mg/Kg	☼	67	58 - 136
4-Bromophenyl phenyl ether	0.013	U	3.38	2.32		mg/Kg	☼	69	60 - 120
4-Chloro-3-methylphenol	0.019	U F1	3.38	2.16	F1	mg/Kg	☼	64	66 - 120
4-Chloroaniline	0.060	U	3.38	0.884		mg/Kg	☼	26	10 - 120
4-Chlorophenyl phenyl ether	0.012	U	3.38	2.20		mg/Kg	☼	65	62 - 120
4-Methylphenol	0.021	U F1	3.38	2.04	F1	mg/Kg	☼	60	61 - 120
4-Nitroaniline	0.039	U	3.38	1.85		mg/Kg	☼	55	51 - 120
4-Nitrophenol	0.055	U	6.75	4.02		mg/Kg	☼	59	42 - 132

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0096	U	3.38	2.22		mg/Kg	☼	66	65 - 120
Acenaphthylene	0.0096	U	3.38	2.39		mg/Kg	☼	71	64 - 120
Acetophenone	0.016	U F1	3.38	2.03	F1	mg/Kg	☼	60	61 - 120
Anthracene	0.010	U	3.38	2.30		mg/Kg	☼	68	67 - 120
Atrazine	0.020	U	1.35	1.70		mg/Kg	☼	126	32 - 150
Benzaldehyde	0.055	U	1.35	1.24	E	mg/Kg	☼	91	28 - 150
Benzidine	0.070	U	3.38	0.754		mg/Kg	☼	22	10 - 120
Benzo[a]anthracene	0.025	U	3.38	2.22		mg/Kg	☼	66	66 - 120
Benzo[a]pyrene	0.0089	U	3.38	2.45		mg/Kg	☼	73	73 - 123
Benzo[b]fluoranthene	0.0087	U F1	3.38	2.27	F1	mg/Kg	☼	67	70 - 125
Benzo[g,h,i]perylene	0.0099	U	3.38	2.66		mg/Kg	☼	79	66 - 120
Benzo[k]fluoranthene	0.0066	U	3.38	2.40		mg/Kg	☼	71	67 - 122
bis (2-chloroisopropyl) ether	0.020	U	3.38	2.10		mg/Kg	☼	62	46 - 126
Bis(2-chloroethoxy)methane	0.026	U	3.38	2.14		mg/Kg	☼	63	62 - 120
Bis(2-chloroethyl)ether	0.012	U	3.38	2.03		mg/Kg	☼	60	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U	3.38	2.35		mg/Kg	☼	70	64 - 125
Butyl benzyl phthalate	0.016	U	3.38	2.32		mg/Kg	☼	69	62 - 127
Caprolactam	0.052	U	1.35	1.40		mg/Kg	☼	104	36 - 150
Carbazole	0.013	U	3.38	2.19		mg/Kg	☼	65	64 - 120
Chrysene	0.014	U F1	3.38	2.20	F1	mg/Kg	☼	65	67 - 120
Dibenz(a,h)anthracene	0.015	U	3.38	2.50		mg/Kg	☼	74	66 - 128
Dibenzofuran	0.011	U	3.38	2.25		mg/Kg	☼	67	61 - 120
Diethyl phthalate	0.011	U	3.38	2.19		mg/Kg	☼	65	63 - 120
Dimethyl phthalate	0.076	U	3.38	2.21		mg/Kg	☼	65	65 - 120
Di-n-butyl phthalate	0.013	U F1	3.38	2.13	F1	mg/Kg	☼	63	66 - 120
Di-n-octyl phthalate	0.018	U	3.38	2.27		mg/Kg	☼	67	61 - 123
Fluoranthene	0.012	U	3.38	2.17		mg/Kg	☼	64	61 - 120
Fluorene	0.0098	U	3.38	2.25		mg/Kg	☼	67	64 - 120
Hexachlorobenzene	0.016	U	3.38	2.32		mg/Kg	☼	69	66 - 120
Hexachlorobutadiene	0.0071	U	3.38	2.20		mg/Kg	☼	65	62 - 120
Hexachlorocyclopentadiene	0.029	U	3.38	2.47		mg/Kg	☼	73	13 - 120
Hexachloroethane	0.012	U	3.38	2.11		mg/Kg	☼	62	61 - 120
Indeno[1,2,3-cd]pyrene	0.013	U	3.38	2.62		mg/Kg	☼	77	71 - 137
Isophorone	0.097	U	3.38	2.19		mg/Kg	☼	65	61 - 120
Naphthalene	0.0058	U	3.38	2.17		mg/Kg	☼	64	63 - 120
Nitrobenzene	0.019	U F1	3.38	2.05	F1	mg/Kg	☼	61	63 - 120
N-Nitrosodimethylamine	0.031	U F1	3.38	1.80	F1	mg/Kg	☼	53	57 - 120
N-Nitrosodi-n-propylamine	0.024	U	3.38	2.18		mg/Kg	☼	65	56 - 120
N-Nitrosodiphenylamine	0.028	U	3.38	2.32		mg/Kg	☼	69	63 - 120
Pentachlorophenol	0.069	U F1	6.75	3.82	F1	mg/Kg	☼	57	61 - 126
Phenanthrene	0.014	U	3.38	2.26		mg/Kg	☼	67	66 - 120
Phenol	0.012	U	3.38	2.13		mg/Kg	☼	63	63 - 120
Pyrene	0.0083	U	3.38	2.45		mg/Kg	☼	72	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*72*		*24 - 137*
2-Fluorobiphenyl	*72*		*38 - 128*
2-Fluorophenol (Surr)	*62*		*31 - 133*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018392

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	71		31 - 120
Phenol-d5 (Surr)	68		35 - 132
Terphenyl-d14 (Surr)	75		44 - 147

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U	3.38	2.62		mg/Kg	☼	77	64 - 120	14	30
1,2,4-Trichlorobenzene	0.0086	U	3.38	2.57		mg/Kg	☼	76	63 - 120	18	30
1,2-Dichlorobenzene	0.0057	U F1	3.38	2.41		mg/Kg	☼	71	64 - 120	15	30
1,2-Diphenylhydrazine	0.013	U	3.38	2.72		mg/Kg	☼	80	55 - 125	14	30
1,3-Dichlorobenzene	0.010	U F1	3.38	2.41		mg/Kg	☼	71	62 - 120	17	30
1,4-Dichlorobenzene	0.013	U	3.38	2.45		mg/Kg	☼	72	60 - 120	17	30
2,4,5-Trichlorophenol	0.034	U	3.38	2.62		mg/Kg	☼	78	64 - 120	16	30
2,4,6-Trichlorophenol	0.043	U	3.38	2.57		mg/Kg	☼	76	65 - 120	14	30
2,4-Dichlorophenol	0.022	U F1	3.38	2.59		mg/Kg	☼	77	66 - 120	16	30
2,4-Dimethylphenol	0.040	U	3.38	2.93		mg/Kg	☼	87	46 - 120	16	30
2,4-Dinitrophenol	0.16	U	6.75	3.98		mg/Kg	☼	59	41 - 129	9	30
2,4-Dinitrotoluene	0.036	U	3.38	2.58		mg/Kg	☼	77	65 - 124	11	30
2,6-Dinitrotoluene	0.024	U	3.38	2.60		mg/Kg	☼	77	67 - 121	14	30
2-Chloronaphthalene	0.016	U	3.38	2.58		mg/Kg	☼	76	64 - 120	13	30
2-Chlorophenol	0.012	U F1	3.38	2.41		mg/Kg	☼	71	63 - 120	14	30
2-Methylnaphthalene	0.0094	U F1	3.38	2.20		mg/Kg	☼	65	64 - 120	15	30
2-Methylphenol	0.013	U	3.38	2.50		mg/Kg	☼	74	63 - 120	14	30
2-Nitroaniline	0.026	U	3.38	2.34		mg/Kg	☼	69	48 - 120	15	30
2-Nitrophenol	0.034	U	3.38	2.53		mg/Kg	☼	75	64 - 120	17	30
3,3'-Dichlorobenzidine	0.051	U	3.38	1.21		mg/Kg	☼	36	10 - 120	2	30
3-Nitroaniline	0.080	U	3.38	1.68		mg/Kg	☼	50	18 - 122	3	30
4,6-Dinitro-2-methylphenol	0.14	U	6.75	5.31		mg/Kg	☼	79	58 - 136	15	30
4-Bromophenyl phenyl ether	0.013	U	3.38	2.68		mg/Kg	☼	79	60 - 120	14	30
4-Chloro-3-methylphenol	0.019	U F1	3.38	2.54		mg/Kg	☼	75	66 - 120	16	30
4-Chloroaniline	0.060	U	3.38	0.751		mg/Kg	☼	22	10 - 120	16	30
4-Chlorophenyl phenyl ether	0.012	U	3.38	2.53		mg/Kg	☼	75	62 - 120	14	30
4-Methylphenol	0.021	U F1	3.38	2.36		mg/Kg	☼	70	61 - 120	15	30
4-Nitroaniline	0.039	U	3.38	2.09		mg/Kg	☼	62	51 - 120	12	30
4-Nitrophenol	0.055	U	6.75	4.14		mg/Kg	☼	61	42 - 132	3	30
Acenaphthene	0.0096	U	3.38	2.52		mg/Kg	☼	75	65 - 120	12	30
Acenaphthylene	0.0096	U	3.38	2.70		mg/Kg	☼	80	64 - 120	12	30
Acetophenone	0.016	U F1	3.38	2.38		mg/Kg	☼	70	61 - 120	16	30
Anthracene	0.010	U	3.38	2.67		mg/Kg	☼	79	67 - 120	15	30
Atrazine	0.020	U	1.35	1.86		mg/Kg	☼	138	32 - 150	9	30
Benzaldehyde	0.055	U	1.35	1.41	E	mg/Kg	☼	104	28 - 150	13	30
Benzidine	0.070	U	3.38	0.772		mg/Kg	☼	23	10 - 120	2	30
Benzo[a]anthracene	0.025	U	3.38	2.54		mg/Kg	☼	75	66 - 120	14	30
Benzo[a]pyrene	0.0089	U	3.38	2.82		mg/Kg	☼	84	73 - 123	14	30
Benzo[b]fluoranthene	0.0087	U F1	3.38	2.63		mg/Kg	☼	78	70 - 125	15	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018444

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018392

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	0.0099	U	3.38	3.08		mg/Kg	☼	91	66 - 120	15	30
Benzo[k]fluoranthene	0.0066	U	3.38	2.77		mg/Kg	☼	82	67 - 122	14	30
bis (2-chloroisopropyl) ether	0.020	U	3.38	2.44		mg/Kg	☼	72	46 - 126	15	30
Bis(2-chloroethoxy)methane	0.026	U	3.38	2.50		mg/Kg	☼	74	62 - 120	15	30
Bis(2-chloroethyl)ether	0.012	U	3.38	2.39		mg/Kg	☼	71	60 - 120	16	30
Bis(2-ethylhexyl) phthalate	0.018	U	3.38	2.72		mg/Kg	☼	81	64 - 125	15	30
Butyl benzyl phthalate	0.016	U	3.38	2.70		mg/Kg	☼	80	62 - 127	15	30
Caprolactam	0.052	U	1.35	1.52		mg/Kg	☼	112	36 - 150	8	30
Carbazole	0.013	U	3.38	2.52		mg/Kg	☼	74	64 - 120	14	30
Chrysene	0.014	U F1	3.38	2.51		mg/Kg	☼	74	67 - 120	13	30
Dibenz(a,h)anthracene	0.015	U	3.38	2.89		mg/Kg	☼	86	66 - 128	14	30
Dibenzofuran	0.011	U	3.38	2.56		mg/Kg	☼	76	61 - 120	13	30
Diethyl phthalate	0.011	U	3.38	2.50		mg/Kg	☼	74	63 - 120	13	30
Dimethyl phthalate	0.076	U	3.38	2.51		mg/Kg	☼	74	65 - 120	13	30
Di-n-butyl phthalate	0.013	U F1	3.38	2.47		mg/Kg	☼	73	66 - 120	15	30
Di-n-octyl phthalate	0.018	U	3.38	2.70		mg/Kg	☼	80	61 - 123	17	30
Fluoranthene	0.012	U	3.38	2.46		mg/Kg	☼	73	61 - 120	13	30
Fluorene	0.0098	U	3.38	2.54		mg/Kg	☼	75	64 - 120	12	30
Hexachlorobenzene	0.016	U	3.38	2.64		mg/Kg	☼	78	66 - 120	13	30
Hexachlorobutadiene	0.0071	U	3.38	2.56		mg/Kg	☼	76	62 - 120	15	30
Hexachlorocyclopentadiene	0.029	U	3.38	2.92		mg/Kg	☼	86	13 - 120	17	30
Hexachloroethane	0.012	U	3.38	2.46		mg/Kg	☼	73	61 - 120	15	30
Indeno[1,2,3-cd]pyrene	0.013	U	3.38	3.05		mg/Kg	☼	90	71 - 137	15	30
Isophorone	0.097	U	3.38	2.56		mg/Kg	☼	76	61 - 120	16	30
Naphthalene	0.0058	U	3.38	2.53		mg/Kg	☼	75	63 - 120	15	30
Nitrobenzene	0.019	U F1	3.38	2.41		mg/Kg	☼	71	63 - 120	16	30
N-Nitrosodimethylamine	0.031	U F1	3.38	2.11		mg/Kg	☼	63	57 - 120	16	30
N-Nitrosodi-n-propylamine	0.024	U	3.38	2.55		mg/Kg	☼	75	56 - 120	16	30
N-Nitrosodiphenylamine	0.028	U	3.38	2.69		mg/Kg	☼	80	63 - 120	15	30
Pentachlorophenol	0.069	U F1	6.75	4.50		mg/Kg	☼	67	61 - 126	16	30
Phenanthrene	0.014	U	3.38	2.60		mg/Kg	☼	77	66 - 120	14	30
Phenol	0.012	U	3.38	2.46		mg/Kg	☼	73	63 - 120	15	30
Pyrene	0.0083	U	3.38	2.81		mg/Kg	☼	83	61 - 121	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*24 - 137*
2-Fluorobiphenyl	*74*		*38 - 128*
2-Fluorophenol (Surr)	*66*		*31 - 133*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*
Phenol-d5 (Surr)	*72*		*35 - 132*
Terphenyl-d14 (Surr)	*78*		*44 - 147*

Lab Sample ID: MB 460-1023976/1-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:46	03/04/25 13:00	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1023976/1-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		03/04/25 08:46	03/04/25 13:00	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1023976/1-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Phenol	0.012	U	0.33	0.012	mg/Kg		03/04/25 08:46	03/04/25 13:00	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		03/04/25 08:46	03/04/25 13:00	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*03/04/25 08:46*	*03/04/25 13:00*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*24 - 137*	*03/04/25 08:46*	*03/04/25 13:00*	*1*
2-Fluorobiphenyl	*94*		*38 - 128*	*03/04/25 08:46*	*03/04/25 13:00*	*1*
2-Fluorophenol (Surr)	*96*		*31 - 133*	*03/04/25 08:46*	*03/04/25 13:00*	*1*
Nitrobenzene-d5 (Surr)	*94*		*31 - 120*	*03/04/25 08:46*	*03/04/25 13:00*	*1*
Phenol-d5 (Surr)	*96*		*35 - 132*	*03/04/25 08:46*	*03/04/25 13:00*	*1*
Terphenyl-d14 (Surr)	*89*		*44 - 147*	*03/04/25 08:46*	*03/04/25 13:00*	*1*

Lab Sample ID: LCS 460-1023976/2-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.12		mg/Kg		94	64 - 120
1,2,4-Trichlorobenzene	3.33	3.13		mg/Kg		94	63 - 120
1,2-Dichlorobenzene	3.33	3.29		mg/Kg		99	64 - 120
1,2-Diphenylhydrazine	3.33	2.97		mg/Kg		89	55 - 125
1,3-Dichlorobenzene	3.33	3.16		mg/Kg		95	62 - 120
1,4-Dichlorobenzene	3.33	3.21		mg/Kg		96	60 - 120
2,4,5-Trichlorophenol	3.33	3.35		mg/Kg		101	64 - 120
2,4,6-Trichlorophenol	3.33	3.21		mg/Kg		96	65 - 120
2,4-Dichlorophenol	3.33	3.37		mg/Kg		101	66 - 120

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1023976/2-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	3.33	3.82		mg/Kg		115	46 - 120
2,4-Dinitrophenol	6.67	7.14		mg/Kg		107	41 - 129
2,4-Dinitrotoluene	3.33	3.65		mg/Kg		109	65 - 124
2,6-Dinitrotoluene	3.33	3.39		mg/Kg		102	67 - 121
2-Chloronaphthalene	3.33	3.15		mg/Kg		94	64 - 120
2-Chlorophenol	3.33	3.32		mg/Kg		100	63 - 120
2-Methylnaphthalene	3.33	3.00		mg/Kg		90	64 - 120
2-Methylphenol	3.33	3.57		mg/Kg		107	63 - 120
2-Nitroaniline	3.33	3.30		mg/Kg		99	48 - 120
2-Nitrophenol	3.33	3.24		mg/Kg		97	64 - 120
3,3'-Dichlorobenzidine	3.33	2.43		mg/Kg		73	10 - 120
3-Nitroaniline	3.33	3.16		mg/Kg		95	18 - 122
4,6-Dinitro-2-methylphenol	6.67	7.19		mg/Kg		108	58 - 136
4-Bromophenyl phenyl ether	3.33	3.10		mg/Kg		93	60 - 120
4-Chloro-3-methylphenol	3.33	3.56		mg/Kg		107	66 - 120
4-Chloroaniline	3.33	2.89		mg/Kg		87	10 - 120
4-Chlorophenyl phenyl ether	3.33	3.44		mg/Kg		103	62 - 120
4-Methylphenol	3.33	3.64		mg/Kg		109	61 - 120
4-Nitroaniline	3.33	3.63		mg/Kg		109	51 - 120
4-Nitrophenol	6.67	6.90		mg/Kg		103	42 - 132
Acenaphthene	3.33	3.29		mg/Kg		99	65 - 120
Acenaphthylene	3.33	3.42		mg/Kg		103	64 - 120
Acetophenone	3.33	3.46		mg/Kg		104	61 - 120
Anthracene	3.33	3.34		mg/Kg		100	67 - 120
Atrazine	1.33	1.68		mg/Kg		126	32 - 150
Benzaldehyde	1.33	1.48		mg/Kg		111	28 - 150
Benzidine	3.33	5.71	*+	mg/Kg		171	10 - 120
Benzo[a]anthracene	3.33	3.16		mg/Kg		95	66 - 120
Benzo[a]pyrene	3.33	3.48		mg/Kg		104	73 - 123
Benzo[b]fluoranthene	3.33	3.22		mg/Kg		97	70 - 125
Benzo[g,h,i]perylene	3.33	3.67		mg/Kg		110	66 - 120
Benzo[k]fluoranthene	3.33	3.23		mg/Kg		97	67 - 122
bis (2-chloroisopropyl) ether	3.33	3.18		mg/Kg		95	46 - 126
Bis(2-chloroethoxy)methane	3.33	3.19		mg/Kg		96	62 - 120
Bis(2-chloroethyl)ether	3.33	3.19		mg/Kg		96	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.22		mg/Kg		97	64 - 125
Butyl benzyl phthalate	3.33	3.00		mg/Kg		90	62 - 127
Caprolactam	1.33	1.69		mg/Kg		127	36 - 150
Carbazole	3.33	3.42		mg/Kg		103	64 - 120
Chrysene	3.33	3.12		mg/Kg		94	67 - 120
Dibenz(a,h)anthracene	3.33	3.61		mg/Kg		108	66 - 128
Dibenzofuran	3.33	3.30		mg/Kg		99	61 - 120
Diethyl phthalate	3.33	3.49		mg/Kg		105	63 - 120
Dimethyl phthalate	3.33	3.41		mg/Kg		102	65 - 120
Di-n-butyl phthalate	3.33	3.26		mg/Kg		98	66 - 120
Di-n-octyl phthalate	3.33	3.00		mg/Kg		90	61 - 123
Fluoranthene	3.33	3.50		mg/Kg		105	61 - 120
Fluorene	3.33	3.52		mg/Kg		106	64 - 120
Hexachlorobenzene	3.33	3.10		mg/Kg		93	66 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1023976/2-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobutadiene	3.33	3.12		mg/Kg		94	62 - 120
Hexachlorocyclopentadiene	3.33	4.36	*+	mg/Kg		131	13 - 120
Hexachloroethane	3.33	3.23		mg/Kg		97	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.58		mg/Kg		107	71 - 137
Isophorone	3.33	3.22		mg/Kg		97	61 - 120
Naphthalene	3.33	3.24		mg/Kg		97	63 - 120
Nitrobenzene	3.33	3.53		mg/Kg		106	63 - 120
N-Nitrosodimethylamine	3.33	3.00		mg/Kg		90	57 - 120
N-Nitrosodi-n-propylamine	3.33	3.34		mg/Kg		100	56 - 120
N-Nitrosodiphenylamine	3.33	3.08		mg/Kg		92	63 - 120
Pentachlorophenol	6.67	6.72		mg/Kg		101	61 - 126
Phenanthrene	3.33	3.24		mg/Kg		97	66 - 120
Phenol	3.33	3.41		mg/Kg		102	63 - 120
Pyrene	3.33	2.90		mg/Kg		87	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*106*		*24 - 137*
2-Fluorobiphenyl	*89*		*38 - 128*
2-Fluorophenol (Surr)	*98*		*31 - 133*
Nitrobenzene-d5 (Surr)	*90*		*31 - 120*
Phenol-d5 (Surr)	*98*		*35 - 132*
Terphenyl-d14 (Surr)	*83*		*44 - 147*

Lab Sample ID: LCSD 460-1023976/3-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	3.33	3.25		mg/Kg		98	64 - 120	4	30
1,2,4-Trichlorobenzene	3.33	3.20		mg/Kg		96	63 - 120	2	30
1,2-Dichlorobenzene	3.33	3.31		mg/Kg		99	64 - 120	1	30
1,2-Diphenylhydrazine	3.33	3.09		mg/Kg		93	55 - 125	4	30
1,3-Dichlorobenzene	3.33	3.15		mg/Kg		94	62 - 120	1	30
1,4-Dichlorobenzene	3.33	3.27		mg/Kg		98	60 - 120	2	30
2,4,5-Trichlorophenol	3.33	3.49		mg/Kg		105	64 - 120	4	30
2,4,6-Trichlorophenol	3.33	3.32		mg/Kg		100	65 - 120	3	30
2,4-Dichlorophenol	3.33	3.47		mg/Kg		104	66 - 120	3	30
2,4-Dimethylphenol	3.33	3.85		mg/Kg		116	46 - 120	1	30
2,4-Dinitrophenol	6.67	7.05		mg/Kg		106	41 - 129	1	30
2,4-Dinitrotoluene	3.33	3.65		mg/Kg		109	65 - 124	0	30
2,6-Dinitrotoluene	3.33	3.41		mg/Kg		102	67 - 121	1	30
2-Chloronaphthalene	3.33	3.25		mg/Kg		97	64 - 120	3	30
2-Chlorophenol	3.33	3.35		mg/Kg		100	63 - 120	1	30
2-Methylnaphthalene	3.33	3.06		mg/Kg		92	64 - 120	2	30
2-Methylphenol	3.33	3.56		mg/Kg		107	63 - 120	0	30
2-Nitroaniline	3.33	3.33		mg/Kg		100	48 - 120	1	30
2-Nitrophenol	3.33	3.29		mg/Kg		99	64 - 120	2	30
3,3'-Dichlorobenzidine	3.33	2.38		mg/Kg		71	10 - 120	2	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1023976/3-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3-Nitroaniline			3.33	3.14		mg/Kg		94	18 - 122	1	30
4,6-Dinitro-2-methylphenol			6.67	7.35		mg/Kg		110	58 - 136	2	30
4-Bromophenyl phenyl ether			3.33	3.25		mg/Kg		97	60 - 120	5	30
4-Chloro-3-methylphenol			3.33	3.55		mg/Kg		107	66 - 120	0	30
4-Chloroaniline			3.33	2.89		mg/Kg		87	10 - 120	0	30
4-Chlorophenyl phenyl ether			3.33	3.52		mg/Kg		106	62 - 120	2	30
4-Methylphenol			3.33	3.60		mg/Kg		108	61 - 120	1	30
4-Nitroaniline			3.33	3.55		mg/Kg		107	51 - 120	2	30
4-Nitrophenol			6.67	6.83		mg/Kg		102	42 - 132	1	30
Acenaphthene			3.33	3.37		mg/Kg		101	65 - 120	2	30
Acenaphthylene			3.33	3.51		mg/Kg		105	64 - 120	3	30
Acetophenone			3.33	3.45		mg/Kg		104	61 - 120	0	30
Anthracene			3.33	3.36		mg/Kg		101	67 - 120	1	30
Atrazine			1.33	1.65		mg/Kg		124	32 - 150	2	30
Benzaldehyde			1.33	1.45		mg/Kg		109	28 - 150	2	30
Benzidine			3.33	5.45	*+	mg/Kg		164	10 - 120	5	30
Benzo[a]anthracene			3.33	3.20		mg/Kg		96	66 - 120	1	30
Benzo[a]pyrene			3.33	3.59		mg/Kg		108	73 - 123	3	30
Benzo[b]fluoranthene			3.33	3.33		mg/Kg		100	70 - 125	3	30
Benzo[g,h,i]perylene			3.33	3.79		mg/Kg		114	66 - 120	3	30
Benzo[k]fluoranthene			3.33	3.34		mg/Kg		100	67 - 122	3	30
bis (2-chloroisopropyl) ether			3.33	3.15		mg/Kg		95	46 - 126	1	30
Bis(2-chloroethoxy)methane			3.33	3.22		mg/Kg		96	62 - 120	1	30
Bis(2-chloroethyl)ether			3.33	3.17		mg/Kg		95	60 - 120	1	30
Bis(2-ethylhexyl) phthalate			3.33	3.33		mg/Kg		100	64 - 125	3	30
Butyl benzyl phthalate			3.33	3.09		mg/Kg		93	62 - 127	3	30
Caprolactam			1.33	1.60		mg/Kg		120	36 - 150	5	30
Carbazole			3.33	3.43		mg/Kg		103	64 - 120	0	30
Chrysene			3.33	3.18		mg/Kg		96	67 - 120	2	30
Dibenz(a,h)anthracene			3.33	3.76		mg/Kg		113	66 - 128	4	30
Dibenzofuran			3.33	3.37		mg/Kg		101	61 - 120	2	30
Diethyl phthalate			3.33	3.50		mg/Kg		105	63 - 120	0	30
Dimethyl phthalate			3.33	3.39		mg/Kg		102	65 - 120	1	30
Di-n-butyl phthalate			3.33	3.28		mg/Kg		98	66 - 120	0	30
Di-n-octyl phthalate			3.33	3.16		mg/Kg		95	61 - 123	5	30
Fluoranthene			3.33	3.50		mg/Kg		105	61 - 120	0	30
Fluorene			3.33	3.46		mg/Kg		104	64 - 120	2	30
Hexachlorobenzene			3.33	3.26		mg/Kg		98	66 - 120	5	30
Hexachlorobutadiene			3.33	3.25		mg/Kg		98	62 - 120	4	30
Hexachlorocyclopentadiene			3.33	4.57	*+	mg/Kg		137	13 - 120	5	30
Hexachloroethane			3.33	3.26		mg/Kg		98	61 - 120	1	30
Indeno[1,2,3-cd]pyrene			3.33	3.71		mg/Kg		111	71 - 137	4	30
Isophorone			3.33	3.27		mg/Kg		98	61 - 120	1	30
Naphthalene			3.33	3.29		mg/Kg		99	63 - 120	2	30
Nitrobenzene			3.33	3.44		mg/Kg		103	63 - 120	2	30
N-Nitrosodimethylamine			3.33	3.03		mg/Kg		91	57 - 120	1	30
N-Nitrosodi-n-propylamine			3.33	3.39		mg/Kg		102	56 - 120	1	30
N-Nitrosodiphenylamine			3.33	3.16		mg/Kg		95	63 - 120	2	30
Pentachlorophenol			6.67	6.81		mg/Kg		102	61 - 126	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1023976/3-A
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1023976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene			3.33	3.31		mg/Kg		99	66 - 120	2	30
Phenol			3.33	3.38		mg/Kg		101	63 - 120	1	30
Pyrene			3.33	3.06		mg/Kg		92	61 - 121	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*106*		*24 - 137*
2-Fluorobiphenyl	*91*		*38 - 128*
2-Fluorophenol (Surr)	*97*		*31 - 133*
Nitrobenzene-d5 (Surr)	*91*		*31 - 120*
Phenol-d5 (Surr)	*96*		*35 - 132*
Terphenyl-d14 (Surr)	*87*		*44 - 147*

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.012	U H	3.37	2.96	H	mg/Kg	☼	88	64 - 120
1,2,4-Trichlorobenzene	0.0086	U H	3.37	2.85	H	mg/Kg	☼	85	63 - 120
1,2-Dichlorobenzene	0.0057	U H	3.37	2.80	H	mg/Kg	☼	83	64 - 120
1,2-Diphenylhydrazine	0.013	U H	3.37	2.81	H	mg/Kg	☼	83	55 - 125
1,3-Dichlorobenzene	0.010	U H	3.37	2.70	H	mg/Kg	☼	80	62 - 120
1,4-Dichlorobenzene	0.013	U H	3.37	2.81	H	mg/Kg	☼	83	60 - 120
2,4,5-Trichlorophenol	0.034	U H	3.37	3.19	H	mg/Kg	☼	95	64 - 120
2,4,6-Trichlorophenol	0.043	U H	3.37	3.04	H	mg/Kg	☼	90	65 - 120
2,4-Dichlorophenol	0.021	U H	3.37	3.30	H	mg/Kg	☼	98	66 - 120
2,4-Dimethylphenol	0.040	U H	3.37	3.58	H	mg/Kg	☼	106	46 - 120
2,4-Dinitrophenol	0.16	U H	6.74	6.91	H	mg/Kg	☼	102	41 - 129
2,4-Dinitrotoluene	0.036	U H	3.37	3.54	H	mg/Kg	☼	105	65 - 124
2,6-Dinitrotoluene	0.024	U H	3.37	3.27	H	mg/Kg	☼	97	67 - 121
2-Chloronaphthalene	0.015	U H	3.37	2.99	H	mg/Kg	☼	89	64 - 120
2-Chlorophenol	0.012	U H	3.37	3.00	H	mg/Kg	☼	89	63 - 120
2-Methylnaphthalene	0.0093	U H	3.37	2.81	H	mg/Kg	☼	83	64 - 120
2-Methylphenol	0.012	U H	3.37	3.30	H	mg/Kg	☼	98	63 - 120
2-Nitroaniline	0.025	U H	3.37	3.15	H	mg/Kg	☼	93	48 - 120
2-Nitrophenol	0.033	U H	3.37	2.89	H	mg/Kg	☼	86	64 - 120
3,3'-Dichlorobenzidine	0.050	U H	3.37	1.59	H	mg/Kg	☼	47	10 - 120
3-Nitroaniline	0.079	U H	3.37	2.65	H	mg/Kg	☼	79	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U H	6.74	6.61	H	mg/Kg	☼	98	58 - 136
4-Bromophenyl phenyl ether	0.013	U H	3.37	2.96	H	mg/Kg	☼	88	60 - 120
4-Chloro-3-methylphenol	0.019	U H	3.37	3.40	H	mg/Kg	☼	101	66 - 120
4-Chloroaniline	0.059	U H	3.37	1.89	H	mg/Kg	☼	56	10 - 120
4-Chlorophenyl phenyl ether	0.012	U H	3.37	3.35	H	mg/Kg	☼	99	62 - 120
4-Methylphenol	0.021	U H	3.37	3.28	H	mg/Kg	☼	97	61 - 120
4-Nitroaniline	0.038	U H	3.37	3.49	H	mg/Kg	☼	104	51 - 120
4-Nitrophenol	0.054	U H	6.74	6.99	H	mg/Kg	☼	104	42 - 132
Acenaphthene	0.0095	U H	3.37	3.15	H	mg/Kg	☼	93	65 - 120
Acenaphthylene	0.0096	U H	3.37	3.25	H	mg/Kg	☼	97	64 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	0.016	U H	3.37	3.03	H	mg/Kg	☼	90	61 - 120
Anthracene	0.010	U H	3.37	3.15	H	mg/Kg	☼	93	67 - 120
Atrazine	0.020	U H	1.35	1.70	H	mg/Kg	☼	126	32 - 150
Benzaldehyde	0.055	U H	1.35	1.28	H	mg/Kg	☼	95	28 - 150
Benzidine	0.070	U H F1 *+	3.37	4.43	H F1	mg/Kg	☼	131	10 - 120
Benzo[a]anthracene	0.025	U H	3.37	3.02	H	mg/Kg	☼	90	66 - 120
Benzo[a]pyrene	0.0089	U H	3.37	3.36	H	mg/Kg	☼	100	73 - 123
Benzo[b]fluoranthene	0.0086	U H	3.37	3.12	H	mg/Kg	☼	93	70 - 125
Benzo[g,h,i]perylene	0.0099	U H	3.37	3.61	H	mg/Kg	☼	107	66 - 120
Benzo[k]fluoranthene	0.0066	U H	3.37	3.12	H	mg/Kg	☼	93	67 - 122
bis (2-chloroisopropyl) ether	0.020	U H	3.37	2.78	H	mg/Kg	☼	82	46 - 126
Bis(2-chloroethoxy)methane	0.026	U H	3.37	2.94	H	mg/Kg	☼	87	62 - 120
Bis(2-chloroethyl)ether	0.012	U H	3.37	2.78	H	mg/Kg	☼	83	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U H	3.37	3.08	H	mg/Kg	☼	91	64 - 125
Butyl benzyl phthalate	0.016	U H	3.37	2.87	H	mg/Kg	☼	85	62 - 127
Caprolactam	0.052	U H	1.35	1.67	H	mg/Kg	☼	124	36 - 150
Carbazole	0.013	U H	3.37	3.30	H	mg/Kg	☼	98	64 - 120
Chrysene	0.014	U H	3.37	3.04	H	mg/Kg	☼	90	67 - 120
Dibenz(a,h)anthracene	0.014	U H	3.37	3.50	H	mg/Kg	☼	104	66 - 128
Dibenzofuran	0.011	U H	3.37	3.20	H	mg/Kg	☼	95	61 - 120
Diethyl phthalate	0.011	U H	3.37	3.37	H	mg/Kg	☼	100	63 - 120
Dimethyl phthalate	0.076	U H	3.37	3.25	H	mg/Kg	☼	96	65 - 120
Di-n-butyl phthalate	0.013	U H	3.37	3.17	H	mg/Kg	☼	94	66 - 120
Di-n-octyl phthalate	0.018	U H	3.37	2.91	H	mg/Kg	☼	86	61 - 123
Fluoranthene	0.012	U H	3.37	3.46	H	mg/Kg	☼	103	61 - 120
Fluorene	0.0098	U H	3.37	3.33	H	mg/Kg	☼	99	64 - 120
Hexachlorobenzene	0.016	U H	3.37	2.94	H	mg/Kg	☼	87	66 - 120
Hexachlorobutadiene	0.0071	U H	3.37	2.81	H	mg/Kg	☼	84	62 - 120
Hexachlorocyclopentadiene	0.029	U H *+	3.37	3.95	H	mg/Kg	☼	117	13 - 120
Hexachloroethane	0.011	U H	3.37	2.76	H	mg/Kg	☼	82	61 - 120
Indeno[1,2,3-cd]pyrene	0.013	U H	3.37	3.49	H	mg/Kg	☼	104	71 - 137
Isophorone	0.097	U H	3.37	2.98	H	mg/Kg	☼	89	61 - 120
Naphthalene	0.0058	U H	3.37	2.95	H	mg/Kg	☼	87	63 - 120
Nitrobenzene	0.019	U H	3.37	3.11	H	mg/Kg	☼	92	63 - 120
N-Nitrosodimethylamine	0.031	U H	3.37	2.42	H	mg/Kg	☼	72	57 - 120
N-Nitrosodi-n-propylamine	0.024	U H	3.37	3.04	H	mg/Kg	☼	90	56 - 120
N-Nitrosodiphenylamine	0.027	U H	3.37	2.94	H	mg/Kg	☼	87	63 - 120
Pentachlorophenol	0.069	U H	6.74	6.57	H	mg/Kg	☼	98	61 - 126
Phenanthrene	0.014	U H	3.37	3.09	H	mg/Kg	☼	92	66 - 120
Phenol	0.012	U H	3.37	3.07	H	mg/Kg	☼	91	63 - 120
Pyrene	0.0083	U H	3.37	2.73	H	mg/Kg	☼	81	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*24 - 137*
2-Fluorobiphenyl	*79*		*38 - 128*
2-Fluorophenol (Surr)	*81*		*31 - 133*
Nitrobenzene-d5 (Surr)	*77*		*31 - 120*
Phenol-d5 (Surr)	*82*		*35 - 132*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1023976

Surrogate	MS %Recovery	MS Qualifier	Limits
Terphenyl-d14 (Surr)	73		44 - 147

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U H	3.36	2.98	H	mg/Kg	☼	89	64 - 120	1	30
1,2,4-Trichlorobenzene	0.0086	U H	3.36	2.87	H	mg/Kg	☼	85	63 - 120	1	30
1,2-Dichlorobenzene	0.0057	U H	3.36	2.85	H	mg/Kg	☼	85	64 - 120	2	30
1,2-Diphenylhydrazine	0.013	U H	3.36	2.79	H	mg/Kg	☼	83	55 - 125	1	30
1,3-Dichlorobenzene	0.010	U H	3.36	2.72	H	mg/Kg	☼	81	62 - 120	1	30
1,4-Dichlorobenzene	0.013	U H	3.36	2.78	H	mg/Kg	☼	83	60 - 120	1	30
2,4,5-Trichlorophenol	0.034	U H	3.36	3.27	H	mg/Kg	☼	97	64 - 120	3	30
2,4,6-Trichlorophenol	0.043	U H	3.36	3.12	H	mg/Kg	☼	93	65 - 120	3	30
2,4-Dichlorophenol	0.021	U H	3.36	3.33	H	mg/Kg	☼	99	66 - 120	1	30
2,4-Dimethylphenol	0.040	U H	3.36	3.72	H	mg/Kg	☼	110	46 - 120	4	30
2,4-Dinitrophenol	0.16	U H	6.73	6.98	H	mg/Kg	☼	104	41 - 129	1	30
2,4-Dinitrotoluene	0.036	U H	3.36	3.69	H	mg/Kg	☼	110	65 - 124	4	30
2,6-Dinitrotoluene	0.024	U H	3.36	3.34	H	mg/Kg	☼	99	67 - 121	2	30
2-Chloronaphthalene	0.015	U H	3.36	2.97	H	mg/Kg	☼	88	64 - 120	1	30
2-Chlorophenol	0.012	U H	3.36	3.17	H	mg/Kg	☼	94	63 - 120	5	30
2-Methylnaphthalene	0.0093	U H	3.36	2.90	H	mg/Kg	☼	86	64 - 120	3	30
2-Methylphenol	0.012	U H	3.36	3.39	H	mg/Kg	☼	101	63 - 120	3	30
2-Nitroaniline	0.025	U H	3.36	3.26	H	mg/Kg	☼	97	48 - 120	3	30
2-Nitrophenol	0.033	U H	3.36	2.93	H	mg/Kg	☼	87	64 - 120	1	30
3,3'-Dichlorobenzidine	0.050	U H	3.36	1.57	H	mg/Kg	☼	47	10 - 120	2	30
3-Nitroaniline	0.079	U H	3.36	2.67	H	mg/Kg	☼	79	18 - 122	0	30
4,6-Dinitro-2-methylphenol	0.14	U H	6.73	6.79	H	mg/Kg	☼	101	58 - 136	3	30
4-Bromophenyl phenyl ether	0.013	U H	3.36	2.93	H	mg/Kg	☼	87	60 - 120	1	30
4-Chloro-3-methylphenol	0.019	U H	3.36	3.54	H	mg/Kg	☼	105	66 - 120	4	30
4-Chloroaniline	0.059	U H	3.36	2.01	H	mg/Kg	☼	60	10 - 120	6	30
4-Chlorophenyl phenyl ether	0.012	U H	3.36	3.40	H	mg/Kg	☼	101	62 - 120	1	30
4-Methylphenol	0.021	U H	3.36	3.45	H	mg/Kg	☼	102	61 - 120	5	30
4-Nitroaniline	0.038	U H	3.36	3.61	H	mg/Kg	☼	107	51 - 120	3	30
4-Nitrophenol	0.054	U H	6.73	7.27	H	mg/Kg	☼	108	42 - 132	4	30
Acenaphthene	0.0095	U H	3.36	3.21	H	mg/Kg	☼	95	65 - 120	2	30
Acenaphthylene	0.0096	U H	3.36	3.32	H	mg/Kg	☼	99	64 - 120	2	30
Acetophenone	0.016	U H	3.36	3.18	H	mg/Kg	☼	95	61 - 120	5	30
Anthracene	0.010	U H	3.36	3.21	H	mg/Kg	☼	96	67 - 120	2	30
Atrazine	0.020	U H	1.35	1.70	H	mg/Kg	☼	126	32 - 150	0	30
Benzaldehyde	0.055	U H	1.35	1.29	H	mg/Kg	☼	96	28 - 150	1	30
Benzidine	0.070	U H F1 *+	3.36	4.36	H F1	mg/Kg	☼	130	10 - 120	2	30
Benzo[a]anthracene	0.025	U H	3.36	3.07	H	mg/Kg	☼	91	66 - 120	1	30
Benzo[a]pyrene	0.0089	U H	3.36	3.41	H	mg/Kg	☼	101	73 - 123	2	30
Benzo[b]fluoranthene	0.0086	U H	3.36	3.15	H	mg/Kg	☼	94	70 - 125	1	30
Benzo[g,h,i]perylene	0.0099	U H	3.36	3.63	H	mg/Kg	☼	108	66 - 120	1	30
Benzo[k]fluoranthene	0.0066	U H	3.36	3.18	H	mg/Kg	☼	94	67 - 122	2	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1023996

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1023976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
bis (2-chloroisopropyl) ether	0.020	U H	3.36	2.80	H	mg/Kg	☼	83	46 - 126	1	30
Bis(2-chloroethoxy)methane	0.026	U H	3.36	2.95	H	mg/Kg	☼	88	62 - 120	0	30
Bis(2-chloroethyl)ether	0.012	U H	3.36	2.81	H	mg/Kg	☼	84	60 - 120	1	30
Bis(2-ethylhexyl) phthalate	0.018	U H	3.36	3.10	H	mg/Kg	☼	92	64 - 125	1	30
Butyl benzyl phthalate	0.016	U H	3.36	2.83	H	mg/Kg	☼	84	62 - 127	1	30
Caprolactam	0.052	U H	1.35	1.83	H	mg/Kg	☼	136	36 - 150	9	30
Carbazole	0.013	U H	3.36	3.37	H	mg/Kg	☼	100	64 - 120	2	30
Chrysene	0.014	U H	3.36	3.05	H	mg/Kg	☼	91	67 - 120	0	30
Dibenz(a,h)anthracene	0.014	U H	3.36	3.57	H	mg/Kg	☼	106	66 - 128	2	30
Dibenzofuran	0.011	U H	3.36	3.25	H	mg/Kg	☼	97	61 - 120	1	30
Diethyl phthalate	0.011	U H	3.36	3.49	H	mg/Kg	☼	104	63 - 120	4	30
Dimethyl phthalate	0.076	U H	3.36	3.34	H	mg/Kg	☼	99	65 - 120	3	30
Di-n-butyl phthalate	0.013	U H	3.36	3.18	H	mg/Kg	☼	95	66 - 120	0	30
Di-n-octyl phthalate	0.018	U H	3.36	2.92	H	mg/Kg	☼	87	61 - 123	1	30
Fluoranthene	0.012	U H	3.36	3.49	H	mg/Kg	☼	104	61 - 120	1	30
Fluorene	0.0098	U H	3.36	3.48	H	mg/Kg	☼	103	64 - 120	4	30
Hexachlorobenzene	0.016	U H	3.36	2.96	H	mg/Kg	☼	88	66 - 120	1	30
Hexachlorobutadiene	0.0071	U H	3.36	2.78	H	mg/Kg	☼	83	62 - 120	1	30
Hexachlorocyclopentadiene	0.029	U H *+	3.36	3.87	H	mg/Kg	☼	115	13 - 120	2	30
Hexachloroethane	0.011	U H	3.36	2.81	H	mg/Kg	☼	84	61 - 120	2	30
Indeno[1,2,3-cd]pyrene	0.013	U H	3.36	3.52	H	mg/Kg	☼	105	71 - 137	1	30
Isophorone	0.097	U H	3.36	3.04	H	mg/Kg	☼	90	61 - 120	2	30
Naphthalene	0.0058	U H	3.36	3.00	H	mg/Kg	☼	89	63 - 120	2	30
Nitrobenzene	0.019	U H	3.36	3.12	H	mg/Kg	☼	93	63 - 120	0	30
N-Nitrosodimethylamine	0.031	U H	3.36	2.51	H	mg/Kg	☼	75	57 - 120	4	30
N-Nitrosodi-n-propylamine	0.024	U H	3.36	3.11	H	mg/Kg	☼	92	56 - 120	2	30
N-Nitrosodiphenylamine	0.027	U H	3.36	2.93	H	mg/Kg	☼	87	63 - 120	0	30
Pentachlorophenol	0.069	U H	6.73	6.65	H	mg/Kg	☼	99	61 - 126	1	30
Phenanthrene	0.014	U H	3.36	3.13	H	mg/Kg	☼	93	66 - 120	1	30
Phenol	0.012	U H	3.36	3.16	H	mg/Kg	☼	94	63 - 120	3	30
Pyrene	0.0083	U H	3.36	2.76	H	mg/Kg	☼	82	61 - 121	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*99*		*24 - 137*
2-Fluorobiphenyl	*79*		*38 - 128*
2-Fluorophenol (Surr)	*81*		*31 - 133*
Nitrobenzene-d5 (Surr)	*77*		*31 - 120*
Phenol-d5 (Surr)	*85*		*35 - 132*
Terphenyl-d14 (Surr)	*75*		*44 - 147*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-1018144/1-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:30	1
Aldrin	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:30	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1018144/1-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/26/25 11:53	01/27/25 09:30	1
alpha-BHC	0.0070	U	0.020	0.0070	ug/L		01/26/25 11:53	01/27/25 09:30	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/26/25 11:53	01/27/25 09:30	1
beta-BHC	0.015	U	0.020	0.015	ug/L		01/26/25 11:53	01/27/25 09:30	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/26/25 11:53	01/27/25 09:30	1
4,4'-DDD	0.0060	U	0.020	0.0060	ug/L		01/26/25 11:53	01/27/25 09:30	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/26/25 11:53	01/27/25 09:30	1
4,4'-DDE	0.0020	U	0.020	0.0020	ug/L		01/26/25 11:53	01/27/25 09:30	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:30	1
4,4'-DDT	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:30	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/26/25 11:53	01/27/25 09:30	1
delta-BHC	0.0050	U	0.020	0.0050	ug/L		01/26/25 11:53	01/27/25 09:30	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:30	1
Dieldrin	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endosulfan I	0.0020	U	0.020	0.0020	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endosulfan II	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endosulfan sulfate	0.0060	U	0.020	0.0060	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endrin	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endrin aldehyde	0.0080	U	0.020	0.0080	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/26/25 11:53	01/27/25 09:30	1
Endrin ketone	0.0080	U	0.020	0.0080	ug/L		01/26/25 11:53	01/27/25 09:30	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/26/25 11:53	01/27/25 09:30	1
gamma-BHC (Lindane)	0.012	U	0.020	0.012	ug/L		01/26/25 11:53	01/27/25 09:30	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:30	1
Heptachlor	0.0030	U	0.020	0.0030	ug/L		01/26/25 11:53	01/27/25 09:30	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/26/25 11:53	01/27/25 09:30	1
Heptachlor epoxide	0.0050	U	0.020	0.0050	ug/L		01/26/25 11:53	01/27/25 09:30	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:30	1
Methoxychlor	0.0040	U	0.020	0.0040	ug/L		01/26/25 11:53	01/27/25 09:30	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/26/25 11:53	01/27/25 09:30	1
Toxaphene	0.11	U	0.50	0.11	ug/L		01/26/25 11:53	01/27/25 09:30	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/26/25 11:53	01/27/25 09:30	1
Chlordane (n.o.s.)	0.055	U	0.50	0.055	ug/L		01/26/25 11:53	01/27/25 09:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*34 - 120*	*01/26/25 11:53*	*01/27/25 09:30*	*1*
Tetrachloro-m-xylene	*91*		*34 - 120*	*01/26/25 11:53*	*01/27/25 09:30*	*1*
DCB Decachlorobiphenyl	*95*		*30 - 131*	*01/26/25 11:53*	*01/27/25 09:30*	*1*
DCB Decachlorobiphenyl	*82*		*30 - 131*	*01/26/25 11:53*	*01/27/25 09:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1018144/2-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018144

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.800	0.727		ug/L		91	67 - 129		
Aldrin			0.800	0.644		ug/L		81	67 - 129		
alpha-BHC			0.800	0.684		ug/L		86	70 - 125		
alpha-BHC			0.800	0.636		ug/L		80	70 - 125		
beta-BHC			0.800	0.706		ug/L		88	70 - 129		
beta-BHC			0.800	0.616		ug/L		77	70 - 129		
4,4'-DDD			0.800	0.697		ug/L		87	69 - 138		
4,4'-DDD			0.800	0.640		ug/L		80	69 - 138		
4,4'-DDE			0.800	0.746		ug/L		93	68 - 130		
4,4'-DDE			0.800	0.666		ug/L		83	68 - 130		
4,4'-DDT			0.800	0.784		ug/L		98	57 - 1505		
4,4'-DDT			0.800	0.631		ug/L		79	57 - 1505		
delta-BHC			0.800	0.485		ug/L		61	44 - 120		
delta-BHC			0.800	0.452		ug/L		57	44 - 120		
Dieldrin			0.800	0.739		ug/L		92	72 - 128		
Dieldrin			0.800	0.650		ug/L		81	72 - 128		
Endosulfan I			0.800	0.743		ug/L		93	73 - 127		
Endosulfan I			0.800	0.666		ug/L		83	73 - 127		
Endosulfan II			0.800	0.740		ug/L		93	73 - 134		
Endosulfan II			0.800	0.675		ug/L		84	73 - 134		
Endosulfan sulfate			0.800	0.666		ug/L		83	61 - 128		
Endosulfan sulfate			0.800	0.544		ug/L		68	61 - 128		
Endrin			0.800	0.713		ug/L		89	64 - 138		
Endrin			0.800	0.625		ug/L		78	64 - 138		
Endrin aldehyde			0.800	0.718		ug/L		90	74 - 133		
Endrin aldehyde			0.800	0.618		ug/L		77	74 - 133		
Endrin ketone			0.800	0.769		ug/L		96	56 - 150		
Endrin ketone			0.800	0.626		ug/L		78	56 - 150		
gamma-BHC (Lindane)			0.800	0.713		ug/L		89	73 - 132		
gamma-BHC (Lindane)			0.800	0.650		ug/L		81	73 - 132		
Heptachlor			0.800	0.714		ug/L		89	70 - 134		
Heptachlor			0.800	0.646		ug/L		81	70 - 134		
Heptachlor epoxide			0.800	0.723		ug/L		90	75 - 126		
Heptachlor epoxide			0.800	0.638		ug/L		80	75 - 126		
Methoxychlor			0.800	0.896		ug/L		112	49 - 150		
Methoxychlor			0.800	0.651		ug/L		81	49 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*34 - 120*
Tetrachloro-m-xylene	*82*		*34 - 120*
DCB Decachlorobiphenyl	*57*		*30 - 131*
DCB Decachlorobiphenyl	*51*		*30 - 131*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1018144/3-A
Matrix: Water
Analysis Batch: 1018166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018144

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.800	0.734		ug/L		92	67 - 129	1	30
Aldrin			0.800	0.648		ug/L		81	67 - 129	1	30
alpha-BHC			0.800	0.694		ug/L		87	70 - 125	1	30
alpha-BHC			0.800	0.643		ug/L		80	70 - 125	1	30
beta-BHC			0.800	0.733		ug/L		92	70 - 129	4	30
beta-BHC			0.800	0.633		ug/L		79	70 - 129	3	30
4,4'-DDD			0.800	0.716		ug/L		90	69 - 138	3	30
4,4'-DDD			0.800	0.652		ug/L		82	69 - 138	2	30
4,4'-DDE			0.800	0.771		ug/L		96	68 - 130	3	30
4,4'-DDE			0.800	0.679		ug/L		85	68 - 130	2	30
4,4'-DDT			0.800	0.795		ug/L		99	57 - 1505	1	30
4,4'-DDT			0.800	0.639		ug/L		80	57 - 1505	1	30
delta-BHC			0.800	0.499		ug/L		62	44 - 120	3	30
delta-BHC			0.800	0.463		ug/L		58	44 - 120	2	30
Dieldrin			0.800	0.756		ug/L		95	72 - 128	2	30
Dieldrin			0.800	0.659		ug/L		82	72 - 128	1	30
Endosulfan I			0.800	0.762		ug/L		95	73 - 127	3	30
Endosulfan I			0.800	0.679		ug/L		85	73 - 127	2	30
Endosulfan II			0.800	0.761		ug/L		95	73 - 134	3	30
Endosulfan II			0.800	0.683		ug/L		85	73 - 134	1	30
Endosulfan sulfate			0.800	0.689		ug/L		86	61 - 128	3	30
Endosulfan sulfate			0.800	0.555		ug/L		69	61 - 128	2	30
Endrin			0.800	0.720		ug/L		90	64 - 138	1	30
Endrin			0.800	0.629		ug/L		79	64 - 138	1	30
Endrin aldehyde			0.800	0.750		ug/L		94	74 - 133	4	30
Endrin aldehyde			0.800	0.638		ug/L		80	74 - 133	3	30
Endrin ketone			0.800	0.798		ug/L		100	56 - 150	4	30
Endrin ketone			0.800	0.639		ug/L		80	56 - 150	2	30
gamma-BHC (Lindane)			0.800	0.725		ug/L		91	73 - 132	2	30
gamma-BHC (Lindane)			0.800	0.656		ug/L		82	73 - 132	1	30
Heptachlor			0.800	0.722		ug/L		90	70 - 134	1	30
Heptachlor			0.800	0.648		ug/L		81	70 - 134	0	30
Heptachlor epoxide			0.800	0.736		ug/L		92	75 - 126	2	30
Heptachlor epoxide			0.800	0.647		ug/L		81	75 - 126	1	30
Methoxychlor			0.800	0.896		ug/L		112	49 - 150	0	30
Methoxychlor			0.800	0.654		ug/L		82	49 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*34 - 120*
Tetrachloro-m-xylene	*82*		*34 - 120*
DCB Decachlorobiphenyl	*60*		*30 - 131*
DCB Decachlorobiphenyl	*51*		*30 - 131*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1018341/1-A
Matrix: Solid
Analysis Batch: 1018406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/28/25 06:14	01/28/25 16:11	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/28/25 06:14	01/28/25 16:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*21 - 150*	*01/28/25 06:14*	*01/28/25 16:11*	*1*
Tetrachloro-m-xylene	*94*		*21 - 150*	*01/28/25 06:14*	*01/28/25 16:11*	*1*
DCB Decachlorobiphenyl	*117*		*17 - 150*	*01/28/25 06:14*	*01/28/25 16:11*	*1*
DCB Decachlorobiphenyl	*110*		*17 - 150*	*01/28/25 06:14*	*01/28/25 16:11*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1018341/2-A
Matrix: Solid
Analysis Batch: 1018406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018341

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.133	0.124		mg/Kg		93	69 - 136		
Aldrin			0.133	0.115		mg/Kg		86	69 - 136		
alpha-BHC			0.133	0.120		mg/Kg		90	72 - 134		
alpha-BHC			0.133	0.120		mg/Kg		90	72 - 134		
beta-BHC			0.133	0.122		mg/Kg		91	71 - 130		
beta-BHC			0.133	0.117		mg/Kg		87	71 - 130		
4,4'-DDD			0.133	0.123		mg/Kg		92	70 - 138		
4,4'-DDD			0.133	0.123		mg/Kg		92	70 - 138		
4,4'-DDE			0.133	0.133		mg/Kg		100	68 - 136		
4,4'-DDE			0.133	0.124		mg/Kg		93	68 - 136		
4,4'-DDT			0.133	0.156		mg/Kg		117	66 - 149		
4,4'-DDT			0.133	0.124		mg/Kg		93	66 - 149		
delta-BHC			0.133	0.123		mg/Kg		92	69 - 140		
delta-BHC			0.133	0.120		mg/Kg		90	69 - 140		
Dieldrin			0.133	0.131		mg/Kg		98	69 - 134		
Dieldrin			0.133	0.120		mg/Kg		90	69 - 134		
Endosulfan I			0.133	0.130		mg/Kg		97	69 - 133		
Endosulfan I			0.133	0.125		mg/Kg		93	69 - 133		
Endosulfan II			0.133	0.134		mg/Kg		100	71 - 137		
Endosulfan II			0.133	0.127		mg/Kg		95	71 - 137		
Endosulfan sulfate			0.133	0.140		mg/Kg		105	61 - 140		
Endosulfan sulfate			0.133	0.112		mg/Kg		84	61 - 140		
Endrin			0.133	0.128		mg/Kg		96	67 - 141		
Endrin			0.133	0.117		mg/Kg		88	67 - 141		
Endrin aldehyde			0.133	0.128		mg/Kg		96	71 - 136		
Endrin aldehyde			0.133	0.114		mg/Kg		86	71 - 136		
Endrin ketone			0.133	0.137		mg/Kg		103	60 - 146		
Endrin ketone			0.133	0.117		mg/Kg		87	60 - 146		
gamma-BHC (Lindane)			0.133	0.123		mg/Kg		92	72 - 139		
gamma-BHC (Lindane)			0.133	0.119		mg/Kg		89	72 - 139		
Heptachlor			0.133	0.125		mg/Kg		94	74 - 138		
Heptachlor			0.133	0.117		mg/Kg		88	74 - 138		
Heptachlor epoxide			0.133	0.125		mg/Kg		94	72 - 134		
Heptachlor epoxide			0.133	0.117		mg/Kg		88	72 - 134		
Methoxychlor			0.133	0.169		mg/Kg		126	60 - 150		
Methoxychlor			0.133	0.124		mg/Kg		93	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*21 - 150*
Tetrachloro-m-xylene	*78*		*21 - 150*
DCB Decachlorobiphenyl	*93*		*17 - 150*
DCB Decachlorobiphenyl	*84*		*17 - 150*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1018341/3-A
Matrix: Solid
Analysis Batch: 1018406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018341

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.133	0.134		mg/Kg		100	69 - 136	7	30
Aldrin			0.133	0.119		mg/Kg		89	69 - 136	3	30
alpha-BHC			0.133	0.134		mg/Kg		101	72 - 134	11	30
alpha-BHC			0.133	0.125		mg/Kg		94	72 - 134	4	30
beta-BHC			0.133	0.132		mg/Kg		99	71 - 130	8	30
beta-BHC			0.133	0.120		mg/Kg		90	71 - 130	3	30
4,4'-DDD			0.133	0.125		mg/Kg		94	70 - 138	2	30
4,4'-DDD			0.133	0.125		mg/Kg		94	70 - 138	2	30
4,4'-DDE			0.133	0.141		mg/Kg		106	68 - 136	6	30
4,4'-DDE			0.133	0.127		mg/Kg		96	68 - 136	3	30
4,4'-DDT			0.133	0.149		mg/Kg		111	66 - 149	5	30
4,4'-DDT			0.133	0.122		mg/Kg		92	66 - 149	1	30
delta-BHC			0.133	0.130		mg/Kg		98	69 - 140	6	30
delta-BHC			0.133	0.123		mg/Kg		92	69 - 140	3	30
Dieldrin			0.133	0.138		mg/Kg		103	69 - 134	5	30
Dieldrin			0.133	0.125		mg/Kg		93	69 - 134	4	30
Endosulfan I			0.133	0.139		mg/Kg		104	69 - 133	7	30
Endosulfan I			0.133	0.131		mg/Kg		98	69 - 133	5	30
Endosulfan II			0.133	0.140		mg/Kg		105	71 - 137	5	30
Endosulfan II			0.133	0.132		mg/Kg		99	71 - 137	3	30
Endosulfan sulfate			0.133	0.142		mg/Kg		107	61 - 140	2	30
Endosulfan sulfate			0.133	0.115		mg/Kg		86	61 - 140	3	30
Endrin			0.133	0.128		mg/Kg		96	67 - 141	1	30
Endrin			0.133	0.118		mg/Kg		89	67 - 141	1	30
Endrin aldehyde			0.133	0.130		mg/Kg		98	71 - 136	2	30
Endrin aldehyde			0.133	0.115		mg/Kg		86	71 - 136	1	30
Endrin ketone			0.133	0.141		mg/Kg		106	60 - 146	3	30
Endrin ketone			0.133	0.120		mg/Kg		90	60 - 146	3	30
gamma-BHC (Lindane)			0.133	0.134		mg/Kg		100	72 - 139	9	30
gamma-BHC (Lindane)			0.133	0.123		mg/Kg		92	72 - 139	3	30
Heptachlor			0.133	0.132		mg/Kg		99	74 - 138	5	30
Heptachlor			0.133	0.120		mg/Kg		90	74 - 138	2	30
Heptachlor epoxide			0.133	0.134		mg/Kg		101	72 - 134	7	30
Heptachlor epoxide			0.133	0.121		mg/Kg		91	72 - 134	4	30
Methoxychlor			0.133	0.148		mg/Kg		111	60 - 150	13	30
Methoxychlor			0.133	0.117		mg/Kg		88	60 - 150	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*21 - 150*
Tetrachloro-m-xylene	*84*		*21 - 150*
DCB Decachlorobiphenyl	*98*		*17 - 150*
DCB Decachlorobiphenyl	*87*		*17 - 150*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018406

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0012	U	0.135	0.134		mg/Kg	☼	99	70 - 138
4,4'-DDD	0.0012	U	0.135	0.128		mg/Kg	☼	95	70 - 138
4,4'-DDE	0.00080	U	0.135	0.148		mg/Kg	☼	110	68 - 136
4,4'-DDE	0.00080	U	0.135	0.131		mg/Kg	☼	97	68 - 136
4,4'-DDT	0.0012	U	0.135	0.160		mg/Kg	☼	119	66 - 149
4,4'-DDT	0.0012	U	0.135	0.127		mg/Kg	☼	94	66 - 149
Aldrin	0.0010	U	0.135	0.138		mg/Kg	☼	103	69 - 136
Aldrin	0.0010	U	0.135	0.122		mg/Kg	☼	90	69 - 136
alpha-BHC	0.00069	U	0.135	0.143		mg/Kg	☼	106	72 - 134
alpha-BHC	0.00069	U	0.135	0.128		mg/Kg	☼	95	72 - 134
beta-BHC	0.00076	U	0.135	0.137		mg/Kg	☼	101	71 - 130
beta-BHC	0.00076	U	0.135	0.121		mg/Kg	☼	90	71 - 130
delta-BHC	0.00042	U	0.135	0.136		mg/Kg	☼	101	69 - 140
delta-BHC	0.00042	U	0.135	0.125		mg/Kg	☼	93	69 - 140
Dieldrin	0.00088	U F1	0.135	0.145		mg/Kg	☼	107	69 - 134
Dieldrin	0.00088	U F1	0.135	0.128		mg/Kg	☼	95	69 - 134
Endosulfan I	0.0010	U	0.135	0.141		mg/Kg	☼	104	69 - 133
Endosulfan I	0.0010	U	0.135	0.132		mg/Kg	☼	98	69 - 133
Endosulfan II	0.0017	U	0.135	0.144		mg/Kg	☼	107	71 - 137
Endosulfan II	0.0017	U	0.135	0.134		mg/Kg	☼	99	71 - 137
Endosulfan sulfate	0.00085	U	0.135	0.152		mg/Kg	☼	113	61 - 140
Endosulfan sulfate	0.00085	U	0.135	0.117		mg/Kg	☼	87	61 - 140
Endrin	0.00097	U	0.135	0.141		mg/Kg	☼	104	67 - 141
Endrin	0.00097	U	0.135	0.121		mg/Kg	☼	90	67 - 141
Endrin aldehyde	0.0016	U	0.135	0.141		mg/Kg	☼	104	71 - 136
Endrin aldehyde	0.0016	U	0.135	0.122		mg/Kg	☼	91	71 - 136
Endrin ketone	0.0013	U	0.135	0.148		mg/Kg	☼	110	60 - 146
Endrin ketone	0.0013	U	0.135	0.124		mg/Kg	☼	92	60 - 146
gamma-BHC (Lindane)	0.00063	U	0.135	0.140		mg/Kg	☼	104	72 - 139
gamma-BHC (Lindane)	0.00063	U	0.135	0.125		mg/Kg	☼	92	72 - 139
Heptachlor	0.00080	U	0.135	0.135		mg/Kg	☼	100	74 - 138
Heptachlor	0.00080	U	0.135	0.125		mg/Kg	☼	92	74 - 138
Heptachlor epoxide	0.0010	U	0.135	0.138		mg/Kg	☼	103	72 - 134
Heptachlor epoxide	0.0010	U	0.135	0.124		mg/Kg	☼	92	72 - 134
Methoxychlor	0.0016	U	0.135	0.166		mg/Kg	☼	123	60 - 150
Methoxychlor	0.0016	U	0.135	0.125		mg/Kg	☼	92	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*105*		*17 - 150*
DCB Decachlorobiphenyl	*93*		*17 - 150*
Tetrachloro-m-xylene	*85*		*21 - 150*
Tetrachloro-m-xylene	*83*		*21 - 150*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018406

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018341

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0012	U	0.135	0.119		mg/Kg	☼	88	70 - 138	12	30
4,4'-DDD	0.0012	U	0.135	0.114		mg/Kg	☼	85	70 - 138	11	30
4,4'-DDE	0.00080	U	0.135	0.133		mg/Kg	☼	98	68 - 136	11	30
4,4'-DDE	0.00080	U	0.135	0.117		mg/Kg	☼	87	68 - 136	11	30
4,4'-DDT	0.0012	U	0.135	0.142		mg/Kg	☼	105	66 - 149	12	30
4,4'-DDT	0.0012	U	0.135	0.113		mg/Kg	☼	83	66 - 149	12	30
Aldrin	0.0010	U	0.135	0.125		mg/Kg	☼	92	69 - 136	10	30
Aldrin	0.0010	U	0.135	0.109		mg/Kg	☼	81	69 - 136	11	30
alpha-BHC	0.00069	U	0.135	0.129		mg/Kg	☼	95	72 - 134	11	30
alpha-BHC	0.00069	U	0.135	0.115		mg/Kg	☼	85	72 - 134	11	30
beta-BHC	0.00076	U	0.135	0.123		mg/Kg	☼	91	71 - 130	10	30
beta-BHC	0.00076	U	0.135	0.109		mg/Kg	☼	81	71 - 130	10	30
delta-BHC	0.00042	U	0.135	0.122		mg/Kg	☼	91	69 - 140	10	30
delta-BHC	0.00042	U	0.135	0.113		mg/Kg	☼	84	69 - 140	10	30
Dieldrin	0.00088	U F1	0.135	0.130		mg/Kg	☼	96	69 - 134	11	30
Dieldrin	0.00088	U F1	0.135	0.115		mg/Kg	☼	85	69 - 134	11	30
Endosulfan I	0.0010	U	0.135	0.127		mg/Kg	☼	94	69 - 133	11	30
Endosulfan I	0.0010	U	0.135	0.118		mg/Kg	☼	88	69 - 133	11	30
Endosulfan II	0.0017	U	0.135	0.130		mg/Kg	☼	96	71 - 137	10	30
Endosulfan II	0.0017	U	0.135	0.120		mg/Kg	☼	89	71 - 137	10	30
Endosulfan sulfate	0.00085	U	0.135	0.138		mg/Kg	☼	102	61 - 140	10	30
Endosulfan sulfate	0.00085	U	0.135	0.106		mg/Kg	☼	79	61 - 140	10	30
Endrin	0.00097	U	0.135	0.126		mg/Kg	☼	94	67 - 141	11	30
Endrin	0.00097	U	0.135	0.109		mg/Kg	☼	80	67 - 141	11	30
Endrin aldehyde	0.0016	U	0.135	0.128		mg/Kg	☼	95	71 - 136	9	30
Endrin aldehyde	0.0016	U	0.135	0.111		mg/Kg	☼	82	71 - 136	10	30
Endrin ketone	0.0013	U	0.135	0.134		mg/Kg	☼	99	60 - 146	10	30
Endrin ketone	0.0013	U	0.135	0.112		mg/Kg	☼	83	60 - 146	10	30
gamma-BHC (Lindane)	0.00063	U	0.135	0.126		mg/Kg	☼	93	72 - 139	11	30
gamma-BHC (Lindane)	0.00063	U	0.135	0.112		mg/Kg	☼	83	72 - 139	11	30
Heptachlor	0.00080	U	0.135	0.121		mg/Kg	☼	90	74 - 138	11	30
Heptachlor	0.00080	U	0.135	0.111		mg/Kg	☼	83	74 - 138	11	30
Heptachlor epoxide	0.0010	U	0.135	0.125		mg/Kg	☼	93	72 - 134	10	30
Heptachlor epoxide	0.0010	U	0.135	0.111		mg/Kg	☼	82	72 - 134	11	30
Methoxychlor	0.0016	U	0.135	0.147		mg/Kg	☼	108	60 - 150	12	30
Methoxychlor	0.0016	U	0.135	0.111		mg/Kg	☼	82	60 - 150	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*17 - 150*
DCB Decachlorobiphenyl	*83*		*17 - 150*
Tetrachloro-m-xylene	*77*		*21 - 150*
Tetrachloro-m-xylene	*75*		*21 - 150*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1024268/1-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		03/05/25 17:24	03/06/25 04:29	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		03/05/25 17:24	03/06/25 04:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*21 - 150*	*03/05/25 17:24*	*03/06/25 04:29*	*1*
Tetrachloro-m-xylene	*85*		*21 - 150*	*03/05/25 17:24*	*03/06/25 04:29*	*1*
DCB Decachlorobiphenyl	*56*		*17 - 150*	*03/05/25 17:24*	*03/06/25 04:29*	*1*
DCB Decachlorobiphenyl	*54*		*17 - 150*	*03/05/25 17:24*	*03/06/25 04:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1024268/2-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024268

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aldrin			0.133	0.112		mg/Kg		84	69 - 136		
Aldrin			0.133	0.119		mg/Kg		89	69 - 136		
alpha-BHC			0.133	0.122		mg/Kg		91	72 - 134		
alpha-BHC			0.133	0.129		mg/Kg		97	72 - 134		
beta-BHC			0.133	0.112		mg/Kg		84	71 - 130		
beta-BHC			0.133	0.119		mg/Kg		90	71 - 130		
4,4'-DDD			0.133	0.118		mg/Kg		89	70 - 138		
4,4'-DDD			0.133	0.121		mg/Kg		91	70 - 138		
4,4'-DDE			0.133	0.115		mg/Kg		86	68 - 136		
4,4'-DDE			0.133	0.123		mg/Kg		92	68 - 136		
4,4'-DDT			0.133	0.140		mg/Kg		105	66 - 149		
4,4'-DDT			0.133	0.133		mg/Kg		99	66 - 149		
delta-BHC			0.133	0.131		mg/Kg		98	69 - 140		
delta-BHC			0.133	0.134		mg/Kg		100	69 - 140		
Dieldrin			0.133	0.112		mg/Kg		84	69 - 134		
Dieldrin			0.133	0.120		mg/Kg		90	69 - 134		
Endosulfan I			0.133	0.116		mg/Kg		87	69 - 133		
Endosulfan I			0.133	0.122		mg/Kg		91	69 - 133		
Endosulfan II			0.133	0.118		mg/Kg		88	71 - 137		
Endosulfan II			0.133	0.125		mg/Kg		94	71 - 137		
Endosulfan sulfate			0.133	0.125		mg/Kg		94	61 - 140		
Endosulfan sulfate			0.133	0.122		mg/Kg		92	61 - 140		
Endrin			0.133	0.119		mg/Kg		89	67 - 141		
Endrin			0.133	0.134		mg/Kg		101	67 - 141		
Endrin aldehyde			0.133	0.114		mg/Kg		85	71 - 136		
Endrin aldehyde			0.133	0.111		mg/Kg		83	71 - 136		
Endrin ketone			0.133	0.127		mg/Kg		95	60 - 146		
Endrin ketone			0.133	0.126		mg/Kg		95	60 - 146		
gamma-BHC (Lindane)			0.133	0.125		mg/Kg		94	72 - 139		
gamma-BHC (Lindane)			0.133	0.127		mg/Kg		95	72 - 139		
Heptachlor			0.133	0.128		mg/Kg		96	74 - 138		
Heptachlor			0.133	0.130		mg/Kg		97	74 - 138		
Heptachlor epoxide			0.133	0.114		mg/Kg		86	72 - 134		
Heptachlor epoxide			0.133	0.120		mg/Kg		90	72 - 134		
Methoxychlor			0.133	0.160		mg/Kg		120	60 - 150		
Methoxychlor			0.133	0.133		mg/Kg		100	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*21 - 150*
Tetrachloro-m-xylene	*76*		*21 - 150*
DCB Decachlorobiphenyl	*52*		*17 - 150*
DCB Decachlorobiphenyl	*49*		*17 - 150*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1024268/3-A
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024268

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.133	0.106		mg/Kg		80	69 - 136	5	30
Aldrin			0.133	0.113		mg/Kg		85	69 - 136	5	30
alpha-BHC			0.133	0.115		mg/Kg		86	72 - 134	6	30
alpha-BHC			0.133	0.123		mg/Kg		92	72 - 134	5	30
beta-BHC			0.133	0.106		mg/Kg		80	71 - 130	6	30
beta-BHC			0.133	0.114		mg/Kg		85	71 - 130	5	30
4,4'-DDD			0.133	0.112		mg/Kg		84	70 - 138	6	30
4,4'-DDD			0.133	0.113		mg/Kg		85	70 - 138	7	30
4,4'-DDE			0.133	0.108		mg/Kg		81	68 - 136	6	30
4,4'-DDE			0.133	0.116		mg/Kg		87	68 - 136	6	30
4,4'-DDT			0.133	0.131		mg/Kg		98	66 - 149	7	30
4,4'-DDT			0.133	0.123		mg/Kg		93	66 - 149	7	30
delta-BHC			0.133	0.123		mg/Kg		92	69 - 140	6	30
delta-BHC			0.133	0.127		mg/Kg		96	69 - 140	5	30
Dieldrin			0.133	0.105		mg/Kg		79	69 - 134	6	30
Dieldrin			0.133	0.113		mg/Kg		85	69 - 134	6	30
Endosulfan I			0.133	0.110		mg/Kg		82	69 - 133	6	30
Endosulfan I			0.133	0.114		mg/Kg		86	69 - 133	6	30
Endosulfan II			0.133	0.111		mg/Kg		83	71 - 137	6	30
Endosulfan II			0.133	0.117		mg/Kg		88	71 - 137	7	30
Endosulfan sulfate			0.133	0.117		mg/Kg		88	61 - 140	6	30
Endosulfan sulfate			0.133	0.114		mg/Kg		86	61 - 140	7	30
Endrin			0.133	0.111		mg/Kg		83	67 - 141	7	30
Endrin			0.133	0.124		mg/Kg		93	67 - 141	8	30
Endrin aldehyde			0.133	0.107		mg/Kg		81	71 - 136	6	30
Endrin aldehyde			0.133	0.104		mg/Kg		78	71 - 136	6	30
Endrin ketone			0.133	0.120		mg/Kg		90	60 - 146	6	30
Endrin ketone			0.133	0.118		mg/Kg		89	60 - 146	6	30
gamma-BHC (Lindane)			0.133	0.118		mg/Kg		88	72 - 139	6	30
gamma-BHC (Lindane)			0.133	0.121		mg/Kg		90	72 - 139	5	30
Heptachlor			0.133	0.120		mg/Kg		90	74 - 138	6	30
Heptachlor			0.133	0.123		mg/Kg		92	74 - 138	5	30
Heptachlor epoxide			0.133	0.108		mg/Kg		81	72 - 134	6	30
Heptachlor epoxide			0.133	0.114		mg/Kg		86	72 - 134	5	30
Methoxychlor			0.133	0.150		mg/Kg		113	60 - 150	6	30
Methoxychlor			0.133	0.122		mg/Kg		92	60 - 150	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*21 - 150*
Tetrachloro-m-xylene	*74*		*21 - 150*
DCB Decachlorobiphenyl	*50*		*17 - 150*
DCB Decachlorobiphenyl	*46*		*17 - 150*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0012	U H	0.135	0.117	H	mg/Kg	☼	87	70 - 138
4,4'-DDD	0.0012	U H	0.135	0.118	H	mg/Kg	☼	88	70 - 138
4,4'-DDE	0.00080	U H	0.135	0.113	H	mg/Kg	☼	84	68 - 136
4,4'-DDE	0.00080	U H	0.135	0.120	H	mg/Kg	☼	89	68 - 136
4,4'-DDT	0.0012	U H	0.135	0.139	H	mg/Kg	☼	103	66 - 149
4,4'-DDT	0.0012	U H	0.135	0.129	H	mg/Kg	☼	96	66 - 149
Aldrin	0.0010	U H	0.135	0.111	H	mg/Kg	☼	82	69 - 136
Aldrin	0.0010	U H	0.135	0.117	H	mg/Kg	☼	87	69 - 136
alpha-BHC	0.00069	U H	0.135	0.120	H	mg/Kg	☼	89	72 - 134
alpha-BHC	0.00069	U H	0.135	0.127	H	mg/Kg	☼	95	72 - 134
beta-BHC	0.00076	U H	0.135	0.111	H	mg/Kg	☼	82	71 - 130
beta-BHC	0.00076	U H	0.135	0.119	H	mg/Kg	☼	88	71 - 130
delta-BHC	0.00041	U H	0.135	0.129	H	mg/Kg	☼	96	69 - 140
delta-BHC	0.00041	U H	0.135	0.133	H	mg/Kg	☼	99	69 - 140
Dieldrin	0.00088	U H	0.135	0.111	H	mg/Kg	☼	82	69 - 134
Dieldrin	0.00088	U H	0.135	0.117	H	mg/Kg	☼	87	69 - 134
Endosulfan I	0.0010	U H	0.135	0.115	H	mg/Kg	☼	85	69 - 133
Endosulfan I	0.0010	U H	0.135	0.119	H	mg/Kg	☼	88	69 - 133
Endosulfan II	0.0017	U H	0.135	0.117	H	mg/Kg	☼	87	71 - 137
Endosulfan II	0.0017	U H	0.135	0.122	H	mg/Kg	☼	91	71 - 137
Endosulfan sulfate	0.00085	U H	0.135	0.124	H	mg/Kg	☼	92	61 - 140
Endosulfan sulfate	0.00085	U H	0.135	0.120	H	mg/Kg	☼	89	61 - 140
Endrin	0.00097	U H	0.135	0.118	H	mg/Kg	☼	88	67 - 141
Endrin	0.00097	U H	0.135	0.134	H	mg/Kg	☼	100	67 - 141
Endrin aldehyde	0.0016	U H	0.135	0.113	H	mg/Kg	☼	84	71 - 136
Endrin aldehyde	0.0016	U H	0.135	0.110	H	mg/Kg	☼	81	71 - 136
Endrin ketone	0.0013	U H	0.135	0.128	H	mg/Kg	☼	95	60 - 146
Endrin ketone	0.0013	U H	0.135	0.125	H	mg/Kg	☼	93	60 - 146
gamma-BHC (Lindane)	0.00063	U H	0.135	0.119	H	mg/Kg	☼	88	72 - 139
gamma-BHC (Lindane)	0.00063	U H	0.135	0.125	H	mg/Kg	☼	93	72 - 139
Heptachlor	0.00080	U H	0.135	0.126	H	mg/Kg	☼	94	74 - 138
Heptachlor	0.00080	U H	0.135	0.129	H	mg/Kg	☼	95	74 - 138
Heptachlor epoxide	0.0010	U H	0.135	0.113	H	mg/Kg	☼	84	72 - 134
Heptachlor epoxide	0.0010	U H	0.135	0.119	H	mg/Kg	☼	88	72 - 134
Methoxychlor	0.0015	U H	0.135	0.159	H	mg/Kg	☼	118	60 - 150
Methoxychlor	0.0015	U H	0.135	0.130	H	mg/Kg	☼	96	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*17 - 150*
DCB Decachlorobiphenyl	*51*		*17 - 150*
Tetrachloro-m-xylene	*80*		*21 - 150*
Tetrachloro-m-xylene	*79*		*21 - 150*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024330

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0012	U H	0.135	0.127	H	mg/Kg	☼	94	70 - 138	8	30
4,4'-DDD	0.0012	U H	0.135	0.135	H	mg/Kg	☼	101	70 - 138	14	30
4,4'-DDE	0.00080	U H	0.135	0.121	H	mg/Kg	☼	90	68 - 136	7	30
4,4'-DDE	0.00080	U H	0.135	0.137	H	mg/Kg	☼	102	68 - 136	13	30
4,4'-DDT	0.0012	U H	0.135	0.149	H	mg/Kg	☼	111	66 - 149	7	30
4,4'-DDT	0.0012	U H	0.135	0.149	H	mg/Kg	☼	111	66 - 149	14	30
Aldrin	0.0010	U H	0.135	0.119	H	mg/Kg	☼	88	69 - 136	7	30
Aldrin	0.0010	U H	0.135	0.135	H	mg/Kg	☼	100	69 - 136	14	30
alpha-BHC	0.00069	U H	0.135	0.129	H	mg/Kg	☼	96	72 - 134	8	30
alpha-BHC	0.00069	U H	0.135	0.146	H	mg/Kg	☼	109	72 - 134	14	30
beta-BHC	0.00076	U H	0.135	0.119	H	mg/Kg	☼	89	71 - 130	7	30
beta-BHC	0.00076	U H	0.135	0.135	H	mg/Kg	☼	101	71 - 130	13	30
delta-BHC	0.00041	U H	0.135	0.136	H	mg/Kg	☼	101	69 - 140	6	30
delta-BHC	0.00041	U H	0.135	0.153	H	mg/Kg	☼	114	69 - 140	14	30
Dieldrin	0.00088	U H	0.135	0.120	H	mg/Kg	☼	89	69 - 134	7	30
Dieldrin	0.00088	U H	0.135	0.134	H	mg/Kg	☼	100	69 - 134	14	30
Endosulfan I	0.0010	U H	0.135	0.123	H	mg/Kg	☼	91	69 - 133	6	30
Endosulfan I	0.0010	U H	0.135	0.136	H	mg/Kg	☼	101	69 - 133	13	30
Endosulfan II	0.0017	U H	0.135	0.126	H	mg/Kg	☼	94	71 - 137	7	30
Endosulfan II	0.0017	U H	0.135	0.141	H	mg/Kg	☼	105	71 - 137	14	30
Endosulfan sulfate	0.00085	U H	0.135	0.134	H	mg/Kg	☼	100	61 - 140	7	30
Endosulfan sulfate	0.00085	U H	0.135	0.138	H	mg/Kg	☼	102	61 - 140	13	30
Endrin	0.00097	U H	0.135	0.127	H	mg/Kg	☼	94	67 - 141	7	30
Endrin	0.00097	U H	0.135	0.151	H	mg/Kg	☼	113	67 - 141	12	30
Endrin aldehyde	0.0016	U H	0.135	0.122	H	mg/Kg	☼	90	71 - 136	7	30
Endrin aldehyde	0.0016	U H	0.135	0.126	H	mg/Kg	☼	94	71 - 136	14	30
Endrin ketone	0.0013	U H	0.135	0.137	H	mg/Kg	☼	102	60 - 146	7	30
Endrin ketone	0.0013	U H	0.135	0.144	H	mg/Kg	☼	107	60 - 146	14	30
gamma-BHC (Lindane)	0.00063	U H	0.135	0.128	H	mg/Kg	☼	95	72 - 139	7	30
gamma-BHC (Lindane)	0.00063	U H	0.135	0.144	H	mg/Kg	☼	107	72 - 139	14	30
Heptachlor	0.00080	U H	0.135	0.135	H	mg/Kg	☼	100	74 - 138	7	30
Heptachlor	0.00080	U H	0.135	0.148	H	mg/Kg	☼	110	74 - 138	14	30
Heptachlor epoxide	0.0010	U H	0.135	0.120	H	mg/Kg	☼	89	72 - 134	6	30
Heptachlor epoxide	0.0010	U H	0.135	0.136	H	mg/Kg	☼	101	72 - 134	13	30
Methoxychlor	0.0015	U H	0.135	0.171	H	mg/Kg	☼	127	60 - 150	7	30
Methoxychlor	0.0015	U H	0.135	0.146	H	mg/Kg	☼	109	60 - 150	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*17 - 150*
DCB Decachlorobiphenyl	*56*		*17 - 150*
Tetrachloro-m-xylene	*80*		*21 - 150*
Tetrachloro-m-xylene	*85*		*21 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-1018145/1-A
Matrix: Water
Analysis Batch: 1018250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1016	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1221	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1232	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1242	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1248	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1254	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1260	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor-1262	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:16	1
Aroclor 1268	0.11	U	0.40	0.11	ug/L		01/26/25 11:55	01/27/25 23:16	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1
Polychlorinated biphenyls, Total	0.12	U	0.40	0.12	ug/L		01/26/25 11:55	01/27/25 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*18 - 145*	*01/26/25 11:55*	*01/27/25 23:16*	*1*
DCB Decachlorobiphenyl	*90*		*18 - 145*	*01/26/25 11:55*	*01/27/25 23:16*	*1*
Tetrachloro-m-xylene	*132*	*S1+*	*21 - 124*	*01/26/25 11:55*	*01/27/25 23:16*	*1*
Tetrachloro-m-xylene	*124*		*21 - 124*	*01/26/25 11:55*	*01/27/25 23:16*	*1*

Lab Sample ID: LCS 460-1018145/2-A
Matrix: Water
Analysis Batch: 1018250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018145

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	4.00	4.49		ug/L		112	42 - 120
Aroclor 1016	4.00	4.26		ug/L		107	42 - 120
Aroclor 1260	4.00	4.59		ug/L		115	42 - 126
Aroclor 1260	4.00	4.74		ug/L		119	42 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*18 - 145*
DCB Decachlorobiphenyl	*90*		*18 - 145*
Tetrachloro-m-xylene	*131*	*S1+*	*21 - 124*
Tetrachloro-m-xylene	*126*	*S1+*	*21 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-1018145/3-A
Matrix: Water
Analysis Batch: 1018250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			4.00	4.49		ug/L		112	42 - 120	0	30
Aroclor 1016			4.00	4.32		ug/L		108	42 - 120	1	30
Aroclor 1260			4.00	4.69		ug/L		117	42 - 126	2	30
Aroclor 1260			4.00	4.82		ug/L		120	42 - 126	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*18 - 145*
DCB Decachlorobiphenyl	*90*		*18 - 145*
Tetrachloro-m-xylene	*132*	*S1+*	*21 - 124*
Tetrachloro-m-xylene	*125*	*S1+*	*21 - 124*

Lab Sample ID: MB 460-1018342/1-A
Matrix: Solid
Analysis Batch: 1018409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/28/25 06:19	01/28/25 15:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*20 - 150*	*01/28/25 06:19*	*01/28/25 15:57*	*1*
DCB Decachlorobiphenyl	*102*		*20 - 150*	*01/28/25 06:19*	*01/28/25 15:57*	*1*
Tetrachloro-m-xylene	*97*		*20 - 150*	*01/28/25 06:19*	*01/28/25 15:57*	*1*
Tetrachloro-m-xylene	*95*		*20 - 150*	*01/28/25 06:19*	*01/28/25 15:57*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-1018342/2-A
Matrix: Solid
Analysis Batch: 1018409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.341		mg/Kg		102	54 - 136		
Aroclor 1016			0.333	0.293		mg/Kg		88	54 - 136		
Aroclor 1260			0.333	0.285		mg/Kg		85	53 - 145		
Aroclor 1260			0.333	0.322		mg/Kg		97	53 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*110*		*20 - 150*
DCB Decachlorobiphenyl	*90*		*20 - 150*
Tetrachloro-m-xylene	*83*		*20 - 150*
Tetrachloro-m-xylene	*84*		*20 - 150*

Lab Sample ID: LCSD 460-1018342/3-A
Matrix: Solid
Analysis Batch: 1018409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018342

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.290		mg/Kg		87	54 - 136	16	30
Aroclor 1016			0.333	0.297		mg/Kg		89	54 - 136	2	30
Aroclor 1260			0.333	0.299		mg/Kg		90	53 - 145	5	30
Aroclor 1260			0.333	0.324		mg/Kg		97	53 - 145	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*20 - 150*
DCB Decachlorobiphenyl	*89*		*20 - 150*
Tetrachloro-m-xylene	*83*		*20 - 150*
Tetrachloro-m-xylene	*84*		*20 - 150*

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018409

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.018	U	0.337	0.343		mg/Kg	☼	102	54 - 136		
Aroclor 1016	0.018	U	0.337	0.343		mg/Kg	☼	102	54 - 136		
Aroclor 1260	0.018	U F1	0.337	0.470		mg/Kg	☼	139	53 - 145		
Aroclor 1260	0.018	U F1	0.337	0.519	F1	mg/Kg	☼	154	53 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*112*		*20 - 150*
DCB Decachlorobiphenyl	*99*		*20 - 150*
Tetrachloro-m-xylene	*92*		*20 - 150*
Tetrachloro-m-xylene	*94*		*20 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018409

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.018	U	0.338	0.315		mg/Kg	☼	93	54 - 136	8	30
Aroclor 1016	0.018	U	0.338	0.316		mg/Kg	☼	94	54 - 136	8	30
Aroclor 1260	0.018	U F1	0.338	0.422		mg/Kg	☼	125	53 - 145	11	30
Aroclor 1260	0.018	U F1	0.338	0.428		mg/Kg	☼	127	53 - 145	19	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*95*		*20 - 150*
DCB Decachlorobiphenyl	*96*		*20 - 150*
Tetrachloro-m-xylene	*84*		*20 - 150*
Tetrachloro-m-xylene	*86*		*20 - 150*

Lab Sample ID: MB 460-1024266/1-A
Matrix: Solid
Analysis Batch: 1024360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		03/05/25 17:15	03/06/25 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*20 - 150*	*03/05/25 17:15*	*03/06/25 08:33*	*1*
DCB Decachlorobiphenyl	*72*		*20 - 150*	*03/05/25 17:15*	*03/06/25 08:33*	*1*
Tetrachloro-m-xylene	*98*		*20 - 150*	*03/05/25 17:15*	*03/06/25 08:33*	*1*
Tetrachloro-m-xylene	*129*		*20 - 150*	*03/05/25 17:15*	*03/06/25 08:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-1024266/2-A
Matrix: Solid
Analysis Batch: 1024360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024266

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.275		mg/Kg		83	54 - 136		
Aroclor 1016			0.333	0.294		mg/Kg		88	54 - 136		
Aroclor 1260			0.333	0.256		mg/Kg		77	53 - 145		
Aroclor 1260			0.333	0.301		mg/Kg		90	53 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*20 - 150*
DCB Decachlorobiphenyl	*60*		*20 - 150*
Tetrachloro-m-xylene	*85*		*20 - 150*
Tetrachloro-m-xylene	*113*		*20 - 150*

Lab Sample ID: LCSD 460-1024266/3-A
Matrix: Solid
Analysis Batch: 1024360

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024266

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.294		mg/Kg		88	54 - 136	7	30
Aroclor 1016			0.333	0.309		mg/Kg		93	54 - 136	5	30
Aroclor 1260			0.333	0.279		mg/Kg		84	53 - 145	9	30
Aroclor 1260			0.333	0.327		mg/Kg		98	53 - 145	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*61*		*20 - 150*
DCB Decachlorobiphenyl	*66*		*20 - 150*
Tetrachloro-m-xylene	*91*		*20 - 150*
Tetrachloro-m-xylene	*119*		*20 - 150*

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024360

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016	0.018	U	0.336	0.312		mg/Kg	☼	93	54 - 136		
Aroclor 1016	0.018	U	0.336	0.335		mg/Kg	☼	100	54 - 136		
Aroclor 1260	0.018	U	0.336	0.292		mg/Kg	☼	87	53 - 145		
Aroclor 1260	0.018	U	0.336	0.353		mg/Kg	☼	105	53 - 145		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*58*		*20 - 150*
DCB Decachlorobiphenyl	*67*		*20 - 150*
Tetrachloro-m-xylene	*93*		*20 - 150*
Tetrachloro-m-xylene	*122*		*20 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024360

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.018	U	0.337	0.293		mg/Kg	☼	87	54 - 136	6	30
Aroclor 1016	0.018	U	0.337	0.324		mg/Kg	☼	96	54 - 136	3	30
Aroclor 1260	0.018	U	0.337	0.279		mg/Kg	☼	83	53 - 145	5	30
Aroclor 1260	0.018	U	0.337	0.327		mg/Kg	☼	97	53 - 145	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*56*		*20 - 150*
DCB Decachlorobiphenyl	*66*		*20 - 150*
Tetrachloro-m-xylene	*90*		*20 - 150*
Tetrachloro-m-xylene	*121*		*20 - 150*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Lab Sample ID: MB 460-1018533/1-A
Matrix: Water
Analysis Batch: 1018583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH (C9-C40)	0.40	U	0.40	0.40	mg/L		01/29/25 08:30	01/29/25 14:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*40 - 140*	*01/29/25 08:30*	*01/29/25 14:48*	*1*
1-Chlorooctadecane	*48*		*40 - 140*	*01/29/25 08:30*	*01/29/25 14:48*	*1*

Lab Sample ID: LCS 460-1018533/2-A
Matrix: Water
Analysis Batch: 1018583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018533

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total EPH (C9-C40)			4.00	4.37		mg/L		109	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*113*		*40 - 140*
1-Chlorooctadecane	*107*		*40 - 140*

Lab Sample ID: LCSD 460-1018533/3-A
Matrix: Water
Analysis Batch: 1018583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018533

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total EPH (C9-C40)			4.00	3.61		mg/L		90	40 - 140	19	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*92*		*40 - 140*
1-Chlorooctadecane	*79*		*40 - 140*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: MB 460-1018559/1-A
Matrix: Solid
Analysis Batch: 1018742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/29/25 10:08	01/30/25 09:11	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		01/29/25 10:08	01/30/25 09:11	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/29/25 10:08	01/30/25 09:11	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		01/29/25 10:08	01/30/25 09:11	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		01/29/25 10:08	01/30/25 09:11	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		01/29/25 10:08	01/30/25 09:11	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		01/29/25 10:08	01/30/25 09:11	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		01/29/25 10:08	01/30/25 09:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*119*		*40 - 140*	*01/29/25 10:08*	*01/30/25 09:11*	*1*
2-Fluorobiphenyl	*97*		*40 - 140*	*01/29/25 10:08*	*01/30/25 09:11*	*1*
2-Bromonaphthalene	*97*		*40 - 140*	*01/29/25 10:08*	*01/30/25 09:11*	*1*
1-Chlorooctadecane	*98*		*40 - 140*	*01/29/25 10:08*	*01/30/25 09:11*	*1*

Lab Sample ID: LCS 460-1018559/2-A
Matrix: Solid
Analysis Batch: 1018742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	20.0	8.91		mg/Kg		45	40 - 140
C9-C12 Aliphatics	26.7	11.3		mg/Kg		42	40 - 140
C16-C21 Aliphatics	20.0	13.3		mg/Kg		67	40 - 140
C21-C40 Aliphatics	66.7	42.1		mg/Kg		63	40 - 140
C16-C21 Aromatics	33.3	32.3		mg/Kg		97	40 - 140
C10-C12 Aromatics	20.0	13.8		mg/Kg		69	40 - 140
C12-C16 Aromatics	26.7	19.7		mg/Kg		74	40 - 140
C21-C36 Aromatic	53.3	44.0		mg/Kg		83	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*89*		*40 - 140*
2-Fluorobiphenyl	*86*		*40 - 140*
2-Bromonaphthalene	*87*		*40 - 140*
1-Chlorooctadecane	*67*		*40 - 140*

Lab Sample ID: LCSD 460-1018559/3-A
Matrix: Solid
Analysis Batch: 1018742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018559

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	20.0	9.01		mg/Kg		45	40 - 140	1	25
C9-C12 Aliphatics	26.7	11.3		mg/Kg		43	40 - 140	1	25
C16-C21 Aliphatics	20.0	14.1		mg/Kg		70	40 - 140	6	25
C21-C40 Aliphatics	66.7	44.4		mg/Kg		67	40 - 140	5	25
C16-C21 Aromatics	33.3	31.3		mg/Kg		94	40 - 140	3	25
C10-C12 Aromatics	20.0	13.6		mg/Kg		68	40 - 140	2	25
C12-C16 Aromatics	26.7	19.5		mg/Kg		73	40 - 140	1	25
C21-C36 Aromatic	53.3	42.6		mg/Kg		80	40 - 140	3	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	89		40 - 140
2-Fluorobiphenyl	90		40 - 140
2-Bromonaphthalene	91		40 - 140
1-Chlorooctadecane	67		40 - 140

Lab Sample ID: 460-319264-E-3-A MS
Matrix: Solid
Analysis Batch: 1018742

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	2.2	U F1	21.1	8.14	F1	mg/Kg	☼	39	40 - 140
C9-C12 Aliphatics	3.4	U F1	28.1	9.75	F1	mg/Kg	☼	35	40 - 140
C16-C21 Aliphatics	2.2	U	21.1	13.2		mg/Kg	☼	63	40 - 140
C21-C40 Aliphatics	12		70.2	52.1		mg/Kg	☼	58	40 - 140
C16-C21 Aromatics	5.6	U F1 F2	35.1	71.2	F1	mg/Kg	☼	203	40 - 140
C10-C12 Aromatics	2.9		21.1	14.9		mg/Kg	☼	57	40 - 140
C12-C16 Aromatics	3.4	U	28.1	20.0		mg/Kg	☼	71	40 - 140
C21-C36 Aromatic	22	F1 F2	56.2	180	F1	mg/Kg	☼	282	40 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	83		40 - 140
2-Fluorobiphenyl	101		40 - 140
2-Bromonaphthalene	98		40 - 140
1-Chlorooctadecane	53		40 - 140

Lab Sample ID: 460-319264-E-3-B MSD
Matrix: Solid
Analysis Batch: 1018742

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018559

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.2	U F1	21.1	8.09	F1	mg/Kg	☼	38	40 - 140	1	25
C9-C12 Aliphatics	3.4	U F1	28.1	9.26	F1	mg/Kg	☼	33	40 - 140	5	25
C16-C21 Aliphatics	2.2	U	21.1	12.2		mg/Kg	☼	58	40 - 140	8	25
C21-C40 Aliphatics	12		70.3	43.9		mg/Kg	☼	46	40 - 140	17	25
C16-C21 Aromatics	5.6	U F1 F2	35.2	29.5	F2	mg/Kg	☼	84	40 - 140	83	25
C10-C12 Aromatics	2.9		21.1	12.9		mg/Kg	☼	47	40 - 140	14	25
C12-C16 Aromatics	3.4	U	28.1	16.5		mg/Kg	☼	59	40 - 140	19	25
C21-C36 Aromatic	22	F1 F2	56.3	63.5	F2	mg/Kg	☼	74	40 - 140	96	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	70		40 - 140
2-Fluorobiphenyl	85		40 - 140
2-Bromonaphthalene	83		40 - 140
1-Chlorooctadecane	56		40 - 140

Lab Sample ID: MB 460-1018684/1-A
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/29/25 22:14	01/30/25 17:04	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: MB 460-1018684/1-A
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		01/29/25 22:14	01/30/25 17:04	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/29/25 22:14	01/30/25 17:04	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		01/29/25 22:14	01/30/25 17:04	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		01/29/25 22:14	01/30/25 17:04	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		01/29/25 22:14	01/30/25 17:04	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		01/29/25 22:14	01/30/25 17:04	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		01/29/25 22:14	01/30/25 17:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*40 - 140*	*01/29/25 22:14*	*01/30/25 17:04*	*1*
2-Fluorobiphenyl	*86*		*40 - 140*	*01/29/25 22:14*	*01/30/25 17:04*	*1*
2-Bromonaphthalene	*87*		*40 - 140*	*01/29/25 22:14*	*01/30/25 17:04*	*1*
1-Chlorooctadecane	*79*		*40 - 140*	*01/29/25 22:14*	*01/30/25 17:04*	*1*

Lab Sample ID: LCS 460-1018684/2-A
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018684

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics			20.0	8.56		mg/Kg		43	40 - 140		
C9-C12 Aliphatics			26.7	10.9		mg/Kg		41	40 - 140		
C16-C21 Aliphatics			20.0	12.9		mg/Kg		65	40 - 140		
C21-C40 Aliphatics			66.7	40.5		mg/Kg		61	40 - 140		
C16-C21 Aromatics			33.3	25.3		mg/Kg		76	40 - 140		
C10-C12 Aromatics			20.0	12.9		mg/Kg		64	40 - 140		
C12-C16 Aromatics			26.7	17.2		mg/Kg		64	40 - 140		
C21-C36 Aromatic			53.3	35.6		mg/Kg		67	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*78*		*40 - 140*
2-Fluorobiphenyl	*84*		*40 - 140*
2-Bromonaphthalene	*85*		*40 - 140*
1-Chlorooctadecane	*69*		*40 - 140*

Lab Sample ID: LCSD 460-1018684/3-A
Matrix: Solid
Analysis Batch: 1018831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018684

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C16-C21 Aromatics			33.3	30.1		mg/Kg		90	40 - 140	18	25
C10-C12 Aromatics			20.0	13.8		mg/Kg		69	40 - 140	7	25
C12-C16 Aromatics			26.7	19.1		mg/Kg		72	40 - 140	11	25
C21-C36 Aromatic			53.3	41.3		mg/Kg		77	40 - 140	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*89*		*40 - 140*
2-Fluorobiphenyl	*95*		*40 - 140*
2-Bromonaphthalene	*97*		*40 - 140*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Lab Sample ID: LCSD 460-1018684/3-A
Matrix: Solid
Analysis Batch: 1018963

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018684

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics			20.0	11.0		mg/Kg		55	40 - 140	25	25
C9-C12 Aliphatics			26.7	13.4		mg/Kg		50	40 - 140	20	25
C16-C21 Aliphatics			20.0	17.4	*1	mg/Kg		87	40 - 140	30	25
C21-C40 Aliphatics			66.7	58.4	*1	mg/Kg		88	40 - 140	36	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane	*87*		*40 - 140*

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics	2.0	U	20.3	8.90		mg/Kg	☼	44	40 - 140		
C9-C12 Aliphatics	3.0	U	27.0	12.1		mg/Kg	☼	45	40 - 140		
C16-C21 Aliphatics	2.0	U *1	20.3	13.5		mg/Kg	☼	67	40 - 140		
C21-C40 Aliphatics	7.1	U *1	67.5	42.8		mg/Kg	☼	63	40 - 140		
C16-C21 Aromatics	5.1	U	33.8	27.5		mg/Kg	☼	81	40 - 140		
C10-C12 Aromatics	2.0	U	20.3	13.8		mg/Kg	☼	68	40 - 140		
C12-C16 Aromatics	3.0	U	27.0	18.4		mg/Kg	☼	68	40 - 140		
C21-C36 Aromatic	8.1	U	54.0	39.3		mg/Kg	☼	73	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*78*		*40 - 140*
2-Fluorobiphenyl	*79*		*40 - 140*
2-Bromonaphthalene	*81*		*40 - 140*
1-Chlorooctadecane	*71*		*40 - 140*

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018684

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.0	U	20.2	9.37		mg/Kg	☼	46	40 - 140	5	25
C9-C12 Aliphatics	3.0	U	27.0	12.6		mg/Kg	☼	47	40 - 140	4	25
C16-C21 Aliphatics	2.0	U *1	20.2	14.2		mg/Kg	☼	70	40 - 140	5	25
C21-C40 Aliphatics	7.1	U *1	67.4	44.3		mg/Kg	☼	66	40 - 140	3	25
C16-C21 Aromatics	5.1	U	33.7	27.6		mg/Kg	☼	82	40 - 140	0	25
C10-C12 Aromatics	2.0	U	20.2	14.0		mg/Kg	☼	69	40 - 140	2	25
C12-C16 Aromatics	3.0	U	27.0	18.7		mg/Kg	☼	69	40 - 140	2	25
C21-C36 Aromatic	8.1	U	54.0	38.3		mg/Kg	☼	71	40 - 140	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*78*		*40 - 140*
2-Fluorobiphenyl	*81*		*40 - 140*
2-Bromonaphthalene	*81*		*40 - 140*
1-Chlorooctadecane	*75*		*40 - 140*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: MB 460-1024433/1-A
Matrix: Solid
Analysis Batch: 1024460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		03/06/25 10:35	03/06/25 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*40 - 140*	*03/06/25 10:35*	*03/06/25 20:46*	*1*
2-Fluorobiphenyl	*90*		*40 - 140*	*03/06/25 10:35*	*03/06/25 20:46*	*1*
2-Bromonaphthalene	*92*		*40 - 140*	*03/06/25 10:35*	*03/06/25 20:46*	*1*
1-Chlorooctadecane	*71*		*40 - 140*	*03/06/25 10:35*	*03/06/25 20:46*	*1*

Lab Sample ID: LCS 460-1024433/2-A
Matrix: Solid
Analysis Batch: 1024460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	20.0	9.63		mg/Kg		48	40 - 140
C9-C12 Aliphatics	26.7	11.2		mg/Kg		42	40 - 140
C16-C21 Aliphatics	20.0	16.3		mg/Kg		81	40 - 140
C21-C40 Aliphatics	66.7	37.0		mg/Kg		55	40 - 140
C16-C21 Aromatics	33.3	33.2		mg/Kg		99	40 - 140
C10-C12 Aromatics	20.0	14.5		mg/Kg		72	40 - 140
C12-C16 Aromatics	26.7	18.7		mg/Kg		70	40 - 140
C21-C36 Aromatic	53.3	33.7		mg/Kg		63	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*80*		*40 - 140*
2-Fluorobiphenyl	*83*		*40 - 140*
2-Bromonaphthalene	*84*		*40 - 140*
1-Chlorooctadecane	*73*		*40 - 140*

Lab Sample ID: LCSD 460-1024433/3-A
Matrix: Solid
Analysis Batch: 1024460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	20.0	9.74		mg/Kg		49	40 - 140	1	25
C9-C12 Aliphatics	26.7	11.3		mg/Kg		42	40 - 140	0	25
C16-C21 Aliphatics	20.0	15.4		mg/Kg		77	40 - 140	6	25
C21-C40 Aliphatics	66.7	38.0		mg/Kg		57	40 - 140	3	25
C16-C21 Aromatics	33.3	27.6		mg/Kg		83	40 - 140	18	25
C10-C12 Aromatics	20.0	14.0		mg/Kg		70	40 - 140	4	25
C12-C16 Aromatics	26.7	18.8		mg/Kg		70	40 - 140	0	25
C21-C36 Aromatic	53.3	36.7		mg/Kg		69	40 - 140	8	25

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	83		40 - 140
2-Fluorobiphenyl	83		40 - 140
2-Bromonaphthalene	85		40 - 140
1-Chlorooctadecane	72		40 - 140

Lab Sample ID: 460-319229-H-11-J MS
Matrix: Solid
Analysis Batch: 1024460

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	2.0	U F1	20.1	7.06	F1	mg/Kg	☼	35	40 - 140
C9-C12 Aliphatics	3.0	U F1	26.8	7.34	F1	mg/Kg	☼	27	40 - 140
C16-C21 Aliphatics	2.0	U	20.1	11.2		mg/Kg	☼	56	40 - 140
C21-C40 Aliphatics	7.0	U F1	67.1	25.3	F1	mg/Kg	☼	38	40 - 140
C16-C21 Aromatics	5.0	U	33.5	20.3		mg/Kg	☼	61	40 - 140
C10-C12 Aromatics	2.6	F1	20.1	11.0		mg/Kg	☼	42	40 - 140
C12-C16 Aromatics	3.0	U	26.8	14.2		mg/Kg	☼	53	40 - 140
C21-C36 Aromatic	15	F1	53.7	35.7	F1	mg/Kg	☼	38	40 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	58		40 - 140
2-Fluorobiphenyl	76		40 - 140
2-Bromonaphthalene	79		40 - 140
1-Chlorooctadecane	57		40 - 140

Lab Sample ID: 460-319229-H-11-K MSD
Matrix: Solid
Analysis Batch: 1024460

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.0	U F1	20.1	6.27	F1	mg/Kg	☼	31	40 - 140	12	25
C9-C12 Aliphatics	3.0	U F1	26.8	6.50	F1	mg/Kg	☼	24	40 - 140	12	25
C16-C21 Aliphatics	2.0	U	20.1	9.22		mg/Kg	☼	46	40 - 140	19	25
C21-C40 Aliphatics	7.0	U F1	67.0	20.3	F1	mg/Kg	☼	30	40 - 140	22	25
C16-C21 Aromatics	5.0	U	33.5	18.7		mg/Kg	☼	56	40 - 140	8	25
C10-C12 Aromatics	2.6	F1	20.1	9.99	F1	mg/Kg	☼	37	40 - 140	10	25
C12-C16 Aromatics	3.0	U	26.8	13.0		mg/Kg	☼	49	40 - 140	9	25
C21-C36 Aromatic	15	F1	53.6	36.5		mg/Kg	☼	40	40 - 140	2	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	54		40 - 140
2-Fluorobiphenyl	87		40 - 140
2-Bromonaphthalene	88		40 - 140
1-Chlorooctadecane	49		40 - 140

Lab Sample ID: MB 460-1024577/1-A
Matrix: Solid
Analysis Batch: 1024670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		03/06/25 22:12	03/07/25 09:41	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: MB 460-1024577/1-A
Matrix: Solid
Analysis Batch: 1024670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 22:12	03/07/25 09:41	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		03/06/25 22:12	03/07/25 09:41	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		03/06/25 22:12	03/07/25 09:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*40 - 140*	*03/06/25 22:12*	*03/07/25 09:41*	*1*
2-Fluorobiphenyl	*99*		*40 - 140*	*03/06/25 22:12*	*03/07/25 09:41*	*1*
2-Bromonaphthalene	*72*		*40 - 140*	*03/06/25 22:12*	*03/07/25 09:41*	*1*

Lab Sample ID: MB 460-1024577/1-A
Matrix: Solid
Analysis Batch: 1024669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 22:12	03/07/25 09:57	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		03/06/25 22:12	03/07/25 09:57	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		03/06/25 22:12	03/07/25 09:57	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		03/06/25 22:12	03/07/25 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*48*		*40 - 140*	*03/06/25 22:12*	*03/07/25 09:57*	*1*

Lab Sample ID: LCS 460-1024577/2-A
Matrix: Solid
Analysis Batch: 1024670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C16-C21 Aromatics	33.3	24.1		mg/Kg		72	40 - 140
C10-C12 Aromatics	20.0	13.4		mg/Kg		67	40 - 140
C12-C16 Aromatics	26.7	17.3		mg/Kg		65	40 - 140
C21-C36 Aromatic	53.3	31.7		mg/Kg		60	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*77*		*40 - 140*
2-Fluorobiphenyl	*106*		*40 - 140*
2-Bromonaphthalene	*76*		*40 - 140*

Lab Sample ID: LCS 460-1024577/2-A
Matrix: Solid
Analysis Batch: 1024669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	20.0	8.76		mg/Kg		44	40 - 140
C9-C12 Aliphatics	26.7	10.8		mg/Kg		41	40 - 140
C16-C21 Aliphatics	20.0	13.7		mg/Kg		68	40 - 140
C21-C40 Aliphatics	66.7	35.8		mg/Kg		54	40 - 140

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCS 460-1024577/2-A
Matrix: Solid
Analysis Batch: 1024669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024577

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	67		40 - 140

Lab Sample ID: LCSD 460-1024577/3-A
Matrix: Solid
Analysis Batch: 1024669

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1024577

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics			20.0	8.80		mg/Kg		44	40 - 140	0	25
C9-C12 Aliphatics			26.7	10.8		mg/Kg		40	40 - 140	0	25
C16-C21 Aliphatics			20.0	13.8		mg/Kg		69	40 - 140	1	25
C21-C40 Aliphatics			66.7	34.9		mg/Kg		52	40 - 140	2	25
C16-C21 Aromatics			33.3	25.6		mg/Kg		77	40 - 140	6	25
C10-C12 Aromatics			20.0	13.0		mg/Kg		65	40 - 140	3	25
C12-C16 Aromatics			26.7	17.0		mg/Kg		64	40 - 140	1	25
C21-C36 Aromatic			53.3	36.5		mg/Kg		68	40 - 140	14	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	77		40 - 140
2-Fluorobiphenyl	99		40 - 140
2-Bromonaphthalene	74		40 - 140
1-Chlorooctadecane	66		40 - 140

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024670

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C16-C21 Aromatics	5.1	U H	33.7	22.1	H	mg/Kg	☼	66	40 - 140
C10-C12 Aromatics	2.0	U H	20.2	12.0	H	mg/Kg	☼	59	40 - 140
C12-C16 Aromatics	3.0	U H	27.0	15.5	H	mg/Kg	☼	58	40 - 140
C21-C36 Aromatic	8.1	U H	53.9	34.2	H	mg/Kg	☼	63	40 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	67		40 - 140
2-Fluorobiphenyl	92		40 - 140
2-Bromonaphthalene	68		40 - 140

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024669

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	2.0	U H	20.2	8.49	H	mg/Kg	☼	42	40 - 140
C9-C12 Aliphatics	3.0	U H F1	27.0	10.7	H	mg/Kg	☼	40	40 - 140
C16-C21 Aliphatics	2.0	U H	20.2	13.2	H	mg/Kg	☼	65	40 - 140
C21-C40 Aliphatics	7.1	U H	67.4	38.0	H	mg/Kg	☼	56	40 - 140

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024669

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024577

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctadecane	64		40 - 140

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024670

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C16-C21 Aromatics	5.1	U H	33.7	19.7	H	mg/Kg	☼	58	40 - 140	12	25
C10-C12 Aromatics	2.0	U H	20.2	11.2	H	mg/Kg	☼	56	40 - 140	7	25
C12-C16 Aromatics	3.0	U H	26.9	14.4	H	mg/Kg	☼	53	40 - 140	8	25
C21-C36 Aromatic	8.1	U H	53.8	28.3	H	mg/Kg	☼	53	40 - 140	19	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	58		40 - 140
2-Fluorobiphenyl	91		40 - 140
2-Bromonaphthalene	67		40 - 140

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024669

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.0	U H	20.2	8.06	H	mg/Kg	☼	40	40 - 140	5	25
C9-C12 Aliphatics	3.0	U H F1	26.9	10.2	H F1	mg/Kg	☼	38	40 - 140	5	25
C16-C21 Aliphatics	2.0	U H	20.2	12.7	H	mg/Kg	☼	63	40 - 140	4	25
C21-C40 Aliphatics	7.1	U H	67.3	36.3	H	mg/Kg	☼	54	40 - 140	5	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctadecane	62		40 - 140

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1018513/1-A
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Antimony	0.15	U	1.0	0.15	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Barium	0.15	U	2.0	0.15	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Calcium	40.7	U	100	40.7	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Chromium	0.91	U	2.0	0.91	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Copper	0.37	U	2.0	0.37	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Iron	20.2	U	60.0	20.2	mg/Kg		01/29/25 07:26	01/30/25 14:29	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1018513/1-A
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20	U	0.60	0.20	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Magnesium	10.2	U	100	10.2	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Manganese	0.40	U	4.0	0.40	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Nickel	0.47	U	2.0	0.47	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Potassium	16.2	U	100	16.2	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Selenium	0.13	U	1.3	0.13	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Silver	0.089	U	0.40	0.089	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Sodium	45.7	U	100	45.7	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Thallium	0.041	U	0.40	0.041	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		01/29/25 07:26	01/30/25 14:29	1
Zinc	3.1	U	8.0	3.1	mg/Kg		01/29/25 07:26	01/30/25 14:29	1

Lab Sample ID: LCSSRM 460-1018513/2-A ^3
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018513

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5940	5747		mg/Kg		96.7	46.1 - 153.9
Antimony	121	86.49		mg/Kg		71.5	0.1 - 200.8
Arsenic	242	231.7		mg/Kg		95.8	81.8 - 118.6
Barium	295	267.2		mg/Kg		90.6	81.7 - 118.3
Beryllium	160	152.3		mg/Kg		95.2	82.5 - 117.5
Cadmium	84.3	79.36		mg/Kg		94.1	82.2 - 117.8
Calcium	5270	5035		mg/Kg		95.5	82.5 - 117.5
Chromium	213	204.2		mg/Kg		95.9	81.2 - 119.2
Cobalt	137	133.9		mg/Kg		97.7	83.2 - 117.5
Copper	195	192.0		mg/Kg		98.4	83.1 - 116.9
Iron	6650	6689		mg/Kg		100.6	58.6 - 141.5
Lead	194	190.9		mg/Kg		98.4	82.0 - 118.6
Magnesium	1860	1815		mg/Kg		97.6	75.3 - 124.2
Manganese	264	262.0		mg/Kg		99.2	80.7 - 118.9
Nickel	298	292.7		mg/Kg		98.2	82.2 - 117.8
Potassium	2010	1961		mg/Kg		97.6	70.6 - 129.4
Selenium	272	268.1		mg/Kg		98.6	80.1 - 119.5
Silver	76.7	75.02		mg/Kg		97.8	79.5 - 120.5

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-1018513/2-A ^3
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018513

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	406	408.3		mg/Kg		100.6	74.9 - 124.9
Thallium	108	113.0		mg/Kg		104.6	80.0 - 119.4
Vanadium	169	160.3		mg/Kg		94.9	78.1 - 122.5
Zinc	236	233.3		mg/Kg		98.9	80.1 - 120.3

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018513

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	1880	F1	507	2900	F1	mg/Kg	☼	201	75 - 125
Antimony	0.15	U F1	5.07	3.28	F1	mg/Kg	☼	65	75 - 125
Arsenic	0.56	J	10.1	8.53		mg/Kg	☼	79	75 - 125
Barium	2.0		10.1	11.63		mg/Kg	☼	95	75 - 125
Beryllium	0.058	U	5.07	4.45		mg/Kg	☼	88	75 - 125
Cadmium	0.11	U	5.07	4.36		mg/Kg	☼	86	75 - 125
Calcium	41.3	U	507	462.0		mg/Kg	☼	91	75 - 125
Chromium	3.8		10.1	12.73		mg/Kg	☼	88	75 - 125
Cobalt	0.22	J	5.07	4.69		mg/Kg	☼	88	75 - 125
Copper	1.1	J	10.1	9.95		mg/Kg	☼	87	75 - 125
Iron	1910		507	2291		mg/Kg	☼	75	75 - 125
Lead	1.9		5.07	6.77		mg/Kg	☼	95	75 - 125
Magnesium	45.6	J	507	517.3		mg/Kg	☼	93	75 - 125
Manganese	14.0		50.7	61.50		mg/Kg	☼	94	75 - 125
Nickel	0.58	J	10.1	9.62		mg/Kg	☼	89	75 - 125
Potassium	36.9	J	507	506.9		mg/Kg	☼	93	75 - 125
Selenium	0.13	U	10.1	8.12		mg/Kg	☼	80	75 - 125
Silver	0.090	U	5.07	4.51		mg/Kg	☼	89	75 - 125
Sodium	46.4	U	507	484.8		mg/Kg	☼	96	75 - 125
Thallium	0.042	U	4.06	3.63		mg/Kg	☼	90	75 - 125
Vanadium	4.2		10.1	13.09		mg/Kg	☼	87	75 - 125
Zinc	3.1	U	50.7	46.50		mg/Kg	☼	92	75 - 125

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018513

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	1880	F1	507	2904	F1	mg/Kg	☼	202	75 - 125	0	20
Antimony	0.15	U F1	5.07	3.30	F1	mg/Kg	☼	65	75 - 125	1	20
Arsenic	0.56	J	10.1	8.54		mg/Kg	☼	79	75 - 125	0	20
Barium	2.0		10.1	12.07		mg/Kg	☼	99	75 - 125	4	20
Beryllium	0.058	U	5.07	4.53		mg/Kg	☼	89	75 - 125	2	20
Cadmium	0.11	U	5.07	4.37		mg/Kg	☼	86	75 - 125	0	20
Calcium	41.3	U	507	465.6		mg/Kg	☼	92	75 - 125	1	20
Chromium	3.8		10.1	13.06		mg/Kg	☼	91	75 - 125	3	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018513

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt	0.22	J	5.07	4.71		mg/Kg	☼	89	75 - 125	1	20
Copper	1.1	J	10.1	10.22		mg/Kg	☼	90	75 - 125	3	20
Iron	1910		507	2460		mg/Kg	☼	108	75 - 125	7	20
Lead	1.9		5.07	7.01		mg/Kg	☼	100	75 - 125	4	20
Magnesium	45.6	J	507	517.7		mg/Kg	☼	93	75 - 125	0	20
Manganese	14.0		50.7	61.19		mg/Kg	☼	93	75 - 125	1	20
Nickel	0.58	J	10.1	9.80		mg/Kg	☼	91	75 - 125	2	20
Potassium	36.9	J	507	514.1		mg/Kg	☼	94	75 - 125	1	20
Selenium	0.13	U	10.1	8.12		mg/Kg	☼	80	75 - 125	0	20
Silver	0.090	U	5.07	4.54		mg/Kg	☼	90	75 - 125	1	20
Sodium	46.4	U	507	491.8		mg/Kg	☼	97	75 - 125	1	20
Thallium	0.042	U	4.06	3.68		mg/Kg	☼	91	75 - 125	1	20
Vanadium	4.2		10.1	13.64		mg/Kg	☼	93	75 - 125	4	20
Zinc	3.1	U	50.7	46.87		mg/Kg	☼	92	75 - 125	1	20

Lab Sample ID: 460-319275-15 DU
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018513

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	1880	F1		1893		mg/Kg	☼			0.8	20
Antimony	0.15	U F1		0.15	U	mg/Kg	☼			NC	20
Arsenic	0.56	J		0.625	J	mg/Kg	☼			10	20
Barium	2.0			2.17		mg/Kg	☼			8	20
Beryllium	0.058	U		0.058	U	mg/Kg	☼			NC	20
Cadmium	0.11	U		0.11	U	mg/Kg	☼			NC	20
Calcium	41.3	U		41.3	U	mg/Kg	☼			NC	20
Chromium	3.8			3.93		mg/Kg	☼			4	20
Cobalt	0.22	J		0.226	J	mg/Kg	☼			0.5	20
Copper	1.1	J		1.08	J	mg/Kg	☼			0.6	20
Iron	1910			1838		mg/Kg	☼			4	20
Lead	1.9			2.06		mg/Kg	☼			5	20
Magnesium	45.6	J		45.91	J	mg/Kg	☼			0.7	20
Manganese	14.0			15.46		mg/Kg	☼			10	20
Nickel	0.58	J		0.604	J	mg/Kg	☼			4	20
Potassium	36.9	J		35.70	J	mg/Kg	☼			3	20
Selenium	0.13	U		0.13	U	mg/Kg	☼			NC	20
Silver	0.090	U		0.090	U	mg/Kg	☼			NC	20
Sodium	46.4	U		46.4	U	mg/Kg	☼			NC	20
Thallium	0.042	U		0.042	U	mg/Kg	☼			NC	20
Vanadium	4.2			4.22		mg/Kg	☼			0.6	20
Zinc	3.1	U		3.1	U	mg/Kg	☼			NC	20

Lab Sample ID: MB 460-1018569/1-A
Matrix: Water
Analysis Batch: 1018609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19.5	U	40.0	19.5	ug/L		01/29/25 10:44	01/29/25 18:40	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1018569/1-A
Matrix: Water
Analysis Batch: 1018609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.76	U	2.0	0.76	ug/L		01/29/25 10:44	01/29/25 18:40	1
Arsenic	0.89	U	2.0	0.89	ug/L		01/29/25 10:44	01/29/25 18:40	1
Barium	0.91	U	4.0	0.91	ug/L		01/29/25 10:44	01/29/25 18:40	1
Beryllium	0.13	U	0.80	0.13	ug/L		01/29/25 10:44	01/29/25 18:40	1
Cadmium	0.39	U	2.0	0.39	ug/L		01/29/25 10:44	01/29/25 18:40	1
Calcium	53.6	U	500	53.6	ug/L		01/29/25 10:44	01/29/25 18:40	1
Chromium	2.5	U	4.0	2.5	ug/L		01/29/25 10:44	01/29/25 18:40	1
Cobalt	0.71	U	4.0	0.71	ug/L		01/29/25 10:44	01/29/25 18:40	1
Copper	2.5	U	4.0	2.5	ug/L		01/29/25 10:44	01/29/25 18:40	1
Iron	58.2	U	120	58.2	ug/L		01/29/25 10:44	01/29/25 18:40	1
Lead	0.84	U	1.2	0.84	ug/L		01/29/25 10:44	01/29/25 18:40	1
Magnesium	46.9	U	200	46.9	ug/L		01/29/25 10:44	01/29/25 18:40	1
Manganese	1.5	U	8.0	1.5	ug/L		01/29/25 10:44	01/29/25 18:40	1
Nickel	0.91	U	4.0	0.91	ug/L		01/29/25 10:44	01/29/25 18:40	1
Potassium	112	U	200	112	ug/L		01/29/25 10:44	01/29/25 18:40	1
Selenium	0.59	U	2.5	0.59	ug/L		01/29/25 10:44	01/29/25 18:40	1
Silver	0.29	U	2.0	0.29	ug/L		01/29/25 10:44	01/29/25 18:40	1
Sodium	219	U	500	219	ug/L		01/29/25 10:44	01/29/25 18:40	1
Thallium	0.21	U	0.80	0.21	ug/L		01/29/25 10:44	01/29/25 18:40	1
Vanadium	0.68	U	4.0	0.68	ug/L		01/29/25 10:44	01/29/25 18:40	1
Zinc	6.5	U	16.0	6.5	ug/L		01/29/25 10:44	01/29/25 18:40	1

Lab Sample ID: LCS 460-1018569/2-A
Matrix: Water
Analysis Batch: 1018609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2500	2493		ug/L		100	80 - 120
Antimony	25.0	25.92		ug/L		104	80 - 120
Arsenic	50.0	50.21		ug/L		100	80 - 120
Barium	50.0	51.88		ug/L		104	80 - 120
Beryllium	25.0	24.78		ug/L		99	80 - 120
Cadmium	25.0	24.26		ug/L		97	80 - 120
Calcium	2500	2435		ug/L		97	80 - 120
Chromium	50.0	50.76		ug/L		102	80 - 120
Cobalt	25.0	25.50		ug/L		102	80 - 120
Copper	50.0	51.94		ug/L		104	80 - 120
Iron	2500	2513		ug/L		101	80 - 120
Lead	25.0	24.71		ug/L		99	80 - 120
Magnesium	2500	2578		ug/L		103	80 - 120
Manganese	250	249.2		ug/L		100	80 - 120
Nickel	50.0	51.55		ug/L		103	80 - 120
Potassium	2500	2472		ug/L		99	80 - 120
Selenium	50.0	48.26		ug/L		97	80 - 120
Silver	25.0	24.78		ug/L		99	80 - 120
Sodium	2500	2725		ug/L		109	80 - 120
Thallium	20.0	19.73		ug/L		99	80 - 120
Vanadium	50.0	50.57		ug/L		101	80 - 120
Zinc	250	250.1		ug/L		100	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 460-319067-L-1-C MS
Matrix: Water
Analysis Batch: 1018609

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	19.5	U	2500	2599		ug/L		104	75 - 125
Antimony	0.76	U	25.0	25.20		ug/L		101	75 - 125
Arsenic	0.89	U	50.0	52.48		ug/L		105	75 - 125
Barium	40.3		50.0	92.62		ug/L		105	75 - 125
Beryllium	0.13	U	25.0	25.46		ug/L		102	75 - 125
Cadmium	0.39	U	25.0	24.76		ug/L		99	75 - 125
Calcium	36000		2500	37920	4	ug/L		79	75 - 125
Chromium	2.5	U	50.0	51.20		ug/L		102	75 - 125
Cobalt	0.71	U	25.0	26.06		ug/L		104	75 - 125
Copper	2.5	U	50.0	51.86		ug/L		104	75 - 125
Iron	58.2	U	2500	2517		ug/L		101	75 - 125
Lead	0.84	U	25.0	25.35		ug/L		101	75 - 125
Magnesium	10700		2500	12950	4	ug/L		89	75 - 125
Manganese	1.5	U	250	248.2		ug/L		99	75 - 125
Nickel	0.91	U	50.0	49.69		ug/L		99	75 - 125
Potassium	2110		2500	4466		ug/L		94	75 - 125
Selenium	0.63	J	50.0	51.27		ug/L		101	75 - 125
Silver	0.29	U	25.0	24.89		ug/L		100	75 - 125
Sodium	15900		2500	18640	4	ug/L		108	75 - 125
Thallium	0.21	U	20.0	20.33		ug/L		102	75 - 125
Vanadium	0.85	J	50.0	53.09		ug/L		104	75 - 125
Zinc	6.5	U	250	246.6		ug/L		99	75 - 125

Lab Sample ID: 460-319067-L-1-B DU
Matrix: Water
Analysis Batch: 1018609

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018569

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	19.5	U	19.5	U	ug/L		NC	20
Antimony	0.76	U	0.76	U	ug/L		NC	20
Arsenic	0.89	U	0.89	U	ug/L		NC	20
Barium	40.3		37.33		ug/L		8	20
Beryllium	0.13	U	0.13	U	ug/L		NC	20
Cadmium	0.39	U	0.39	U	ug/L		NC	20
Calcium	36000		35780		ug/L		0.5	20
Chromium	2.5	U	2.5	U	ug/L		NC	20
Cobalt	0.71	U	0.71	U	ug/L		NC	20
Copper	2.5	U	2.5	U	ug/L		NC	20
Iron	58.2	U	58.2	U	ug/L		NC	20
Lead	0.84	U	0.84	U	ug/L		NC	20
Magnesium	10700		10820		ug/L		0.9	20
Manganese	1.5	U	1.5	U	ug/L		NC	20
Nickel	0.91	U	0.91	U	ug/L		NC	20
Potassium	2110		2121		ug/L		0.8	20
Selenium	0.63	J	0.59	U	ug/L		NC	20
Silver	0.29	U	0.29	U	ug/L		NC	20
Sodium	15900		15570		ug/L		2	20
Thallium	0.21	U	0.21	U	ug/L		NC	20
Vanadium	0.85	J	0.908	J	ug/L		6	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319067-L-1-B DU
Matrix: Water
Analysis Batch: 1018609

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018569

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Zinc	6.5	U	6.5	U	ug/L		NC	20

Lab Sample ID: MB 460-1024711/1-A
Matrix: Solid
Analysis Batch: 1024867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Antimony	0.15	U	1.0	0.15	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Barium	0.15	U	2.0	0.15	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Calcium	40.7	U	100	40.7	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Chromium	0.91	U	2.0	0.91	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Copper	0.37	U	2.0	0.37	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Iron	20.2	U	60.0	20.2	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Lead	0.20	U	0.60	0.20	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Magnesium	10.2	U	100	10.2	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Manganese	0.40	U	4.0	0.40	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Nickel	0.47	U	2.0	0.47	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Potassium	16.2	U	100	16.2	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Selenium	0.13	U	1.3	0.13	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Silver	0.089	U	0.40	0.089	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Sodium	45.7	U	100	45.7	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Thallium	0.041	U	0.40	0.041	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		03/07/25 12:53	03/08/25 11:34	1
Zinc	3.1	U	8.0	3.1	mg/Kg		03/07/25 12:53	03/08/25 11:34	1

Lab Sample ID: LCSSRM 460-1024711/2-A ^3
Matrix: Solid
Analysis Batch: 1024867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024711

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	6840	5287		mg/Kg		77.3	53.2 - 146.2
Antimony	131	87.46		mg/Kg		66.8	4.5 - 195.4
Arsenic	192	187.7		mg/Kg		97.7	81.3 - 118.8
Barium	219	257.1		mg/Kg		117.4	81.7 - 118.3
Beryllium	146	148.9		mg/Kg		102.0	82.2 - 117.8
Cadmium	114	121.0		mg/Kg		106.2	81.7 - 118.4
Calcium	4080	4101		mg/Kg		100.5	82.4 - 117.6
Chromium	153	153.3		mg/Kg		100.2	81.0 - 119.0

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-1024711/2-A ^3
Matrix: Solid
Analysis Batch: 1024867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024711

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	231	237.0		mg/Kg		102.6	83.1 - 117.3
Copper	91.2	92.71		mg/Kg		101.7	83.1 - 117.3
Iron	7020	6163		mg/Kg		87.8	60.7 - 139.2
Lead	141	137.8		mg/Kg		97.8	81.6 - 118.4
Magnesium	1900	1729		mg/Kg		91.0	76.3 - 123.7
Manganese	401	441.1		mg/Kg		110.0	80.8 - 119.0
Nickel	143	151.1		mg/Kg		105.7	81.8 - 118.9
Potassium	1760	1551		mg/Kg		88.1	72.2 - 127.8
Selenium	94.7	97.11		mg/Kg		102.5	78.5 - 121.4
Silver	77.0	78.64		mg/Kg		102.1	79.4 - 120.6
Sodium	661	707.7		mg/Kg		107.1	73.7 - 126.2
Thallium	183	207.1		mg/Kg		113.2	80.3 - 119.7
Vanadium	159	154.6		mg/Kg		97.2	78.6 - 122.0
Zinc	292	309.0		mg/Kg		105.8	79.8 - 120.2

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024867

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	1570	F2 F1	395	2221	F1	mg/Kg	☼	165	75 - 125
Antimony	0.12	U F1	3.95	1.53	F1	mg/Kg	☼	39	75 - 125
Arsenic	0.46	J F1	7.91	5.24	F1	mg/Kg	☼	60	75 - 125
Barium	1.8		7.91	8.20		mg/Kg	☼	81	75 - 125
Beryllium	0.047	U F1	3.95	2.67	F1	mg/Kg	☼	67	75 - 125
Cadmium	0.092	U F1	3.95	2.68	F1	mg/Kg	☼	68	75 - 125
Calcium	33.2	U F1	395	281.5	F1	mg/Kg	☼	71	75 - 125
Chromium	3.4	F1	7.91	9.15	F1	mg/Kg	☼	73	75 - 125
Cobalt	0.13	J F1	3.95	2.82	F1	mg/Kg	☼	68	75 - 125
Copper	0.85	J F1	7.91	6.25	F1	mg/Kg	☼	68	75 - 125
Iron	1310	F2 F1	395	1582	F1	mg/Kg	☼	68	75 - 125
Lead	1.3		3.95	4.44		mg/Kg	☼	80	75 - 125
Magnesium	80.8	J	395	383.6		mg/Kg	☼	77	75 - 125
Manganese	3.8	F1	39.5	30.70	F1	mg/Kg	☼	68	75 - 125
Nickel	0.61	J F1	7.91	6.20	F1	mg/Kg	☼	71	75 - 125
Potassium	51.0	J	395	347.8		mg/Kg	☼	75	75 - 125
Selenium	0.10	U F1	7.91	4.95	F1	mg/Kg	☼	63	75 - 125
Silver	0.073	U	3.95	2.98		mg/Kg	☼	75	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024867

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	37.3	U F1	395	288.4	F1	mg/Kg	☼	73	75 - 125
Thallium	0.033	U F1	3.16	2.28	F1	mg/Kg	☼	72	75 - 125
Vanadium	2.9	F1	7.91	8.58	F1	mg/Kg	☼	72	75 - 125
Zinc	2.5	U F1	39.5	28.97	F1	mg/Kg	☼	73	75 - 125

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024867

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	1570	F2 F1	389	2888	4 F2	mg/Kg	☼	339	75 - 125	26	20
Antimony	0.12	U F1	3.89	1.63	F1	mg/Kg	☼	42	75 - 125	6	20
Arsenic	0.46	J F1	7.79	5.95	F1	mg/Kg	☼	70	75 - 125	13	20
Barium	1.8		7.79	9.09		mg/Kg	☼	94	75 - 125	10	20
Beryllium	0.047	U F1	3.89	2.88	F1	mg/Kg	☼	74	75 - 125	8	20
Cadmium	0.092	U F1	3.89	2.91		mg/Kg	☼	75	75 - 125	8	20
Calcium	33.2	U F1	389	320.4		mg/Kg	☼	82	75 - 125	13	20
Chromium	3.4	F1	7.79	10.41		mg/Kg	☼	90	75 - 125	13	20
Cobalt	0.13	J F1	3.89	3.16		mg/Kg	☼	78	75 - 125	12	20
Copper	0.85	J F1	7.79	7.11		mg/Kg	☼	80	75 - 125	13	20
Iron	1310	F2 F1	389	1965	F1 F2	mg/Kg	☼	167	75 - 125	22	20
Lead	1.3		3.89	4.87		mg/Kg	☼	92	75 - 125	9	20
Magnesium	80.8	J	389	432.4		mg/Kg	☼	90	75 - 125	12	20
Manganese	3.8	F1	38.9	34.14		mg/Kg	☼	78	75 - 125	11	20
Nickel	0.61	J F1	7.79	7.00		mg/Kg	☼	82	75 - 125	12	20
Potassium	51.0	J	389	391.8		mg/Kg	☼	88	75 - 125	12	20
Selenium	0.10	U F1	7.79	5.67	F1	mg/Kg	☼	73	75 - 125	14	20
Silver	0.073	U	3.89	3.21		mg/Kg	☼	83	75 - 125	8	20
Sodium	37.3	U F1	389	320.2		mg/Kg	☼	82	75 - 125	10	20
Thallium	0.033	U F1	3.11	2.50		mg/Kg	☼	80	75 - 125	9	20
Vanadium	2.9	F1	7.79	9.96		mg/Kg	☼	90	75 - 125	15	20
Zinc	2.5	U F1	38.9	32.18		mg/Kg	☼	83	75 - 125	11	20

Lab Sample ID: 460-319275-13 DU
Matrix: Solid
Analysis Batch: 1024867

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024711

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	1570	F2 F1	1677		mg/Kg	☼	7	20
Antimony	0.12	U F1	0.13	U	mg/Kg	☼	NC	20
Arsenic	0.46	J F1	0.496	J	mg/Kg	☼	8	20
Barium	1.8		2.06		mg/Kg	☼	14	20
Beryllium	0.047	U F1	0.052	U	mg/Kg	☼	NC	20
Cadmium	0.092	U F1	0.10	U	mg/Kg	☼	NC	20
Calcium	33.2	U F1	36.8	U	mg/Kg	☼	NC	20
Chromium	3.4	F1	3.63		mg/Kg	☼	7	20
Cobalt	0.13	J F1	0.152	J	mg/Kg	☼	15	20
Copper	0.85	J F1	0.876	J	mg/Kg	☼	3	20
Iron	1310	F2 F1	1474		mg/Kg	☼	11	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319275-13 DU
Matrix: Solid
Analysis Batch: 1024867

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024711

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	1.3		1.46		mg/Kg	☼	14	20
Magnesium	80.8	J	94.52		mg/Kg	☼	16	20
Manganese	3.8	F1	4.25		mg/Kg	☼	10	20
Nickel	0.61	J F1	0.645	J	mg/Kg	☼	6	20
Potassium	51.0	J	60.44	J	mg/Kg	☼	17	20
Selenium	0.10	U F1	0.12	U	mg/Kg	☼	NC	20
Silver	0.073	U	0.080	U	mg/Kg	☼	NC	20
Sodium	37.3	U F1	41.3	U	mg/Kg	☼	NC	20
Thallium	0.033	U F1	0.037	U	mg/Kg	☼	NC	20
Vanadium	2.9	F1	3.21		mg/Kg	☼	9	20
Zinc	2.5	U F1	2.8	U	mg/Kg	☼	NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-1018237/1-A
Matrix: Water
Analysis Batch: 1018264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		01/27/25 11:28	01/27/25 14:10	1

Lab Sample ID: LCS 460-1018237/2-A
Matrix: Water
Analysis Batch: 1018264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.04		ug/L		104	80 - 120

Lab Sample ID: 460-319201-C-1-D MS
Matrix: Water
Analysis Batch: 1018264

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.46		1.00	1.68		ug/L		122	75 - 125

Lab Sample ID: 460-319201-C-1-C DU
Matrix: Water
Analysis Batch: 1018264

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018237

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.46		0.452		ug/L		1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-1018461/10-A
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		01/29/25 00:52	01/29/25 04:12	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 460-1018461/11-A ^40
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018461

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			22.8	23.58		mg/Kg		103.4	70.6 - 129.4		

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.011	J	0.0831	0.0998		mg/Kg	☼	107	80 - 120		

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.011	J	0.0831	0.100		mg/Kg	☼	108	80 - 120	1	20

Lab Sample ID: 460-319275-15 DU
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018461

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.011	J	0.0134	J F5	mg/Kg	☼	24	20

Lab Sample ID: MB 460-1024098/1-A
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		03/05/25 01:20	03/05/25 06:26	1

Lab Sample ID: LCSSRM 460-1024098/2-A ^40
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024098

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			14.1	13.47		mg/Kg		95.5	69.6 - 130.5		

Lab Sample ID: 460-319165-B-15-A MS
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.017		0.0774	0.0961		mg/Kg	☼	102	80 - 120		

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-319165-C-15-I MSD
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.017		0.0774	0.0994		mg/Kg	☼	107	80 - 120	3	20

Lab Sample ID: 460-319165-C-15-H DU
Matrix: Solid
Analysis Batch: 1024137

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1024098

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.017		0.0187		mg/Kg	☼	11	20

Lab Sample ID: MB 460-1024585/1-A
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		03/07/25 01:02	03/07/25 05:05	1

Lab Sample ID: LCSSRM 460-1024585/2-A ^40
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	14.1	12.58		mg/Kg		89.2	69.6 - 130.5

Lab Sample ID: 460-319229-H-11-L MS
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.018		0.0812	0.106		mg/Kg	☼	108	80 - 120

Lab Sample ID: 460-319229-H-11-M MSD
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.018		0.0812	0.103		mg/Kg	☼	105	80 - 120	2	20

Lab Sample ID: 460-319229-G-11-G DU
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1024585

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.018		0.0197		mg/Kg	☼	8	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-1024586/1-A
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		03/07/25 01:20	03/07/25 06:02	1

Lab Sample ID: LCSSRM 460-1024586/2-A ^40
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024586

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	14.1	13.37		mg/Kg		94.8	69.6 - 130.5

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0080	U H	0.0830	0.0923	H	mg/Kg	☼	111	80 - 120

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024586

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0080	U H	0.0830	0.0883	H	mg/Kg	☼	106	80 - 120	4	20

Lab Sample ID: 460-319275-13 DU
Matrix: Solid
Analysis Batch: 1024639

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024586

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0080	U H	0.0080	U	mg/Kg	☼	NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-1018659/13-A
Matrix: Solid
Analysis Batch: 1018682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		01/29/25 18:15	01/29/25 21:19	1

Lab Sample ID: LCSSRM 460-1018659/14-A ^20
Matrix: Solid
Analysis Batch: 1018682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018659

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	165	78.92		mg/Kg		47.7	14.9 - 114.5

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 460-319275-15 MS
Matrix: Solid
Analysis Batch: 1018682

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018659

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.13	U	4.51	4.10		mg/Kg	☼	91	29 - 100		

Lab Sample ID: 460-319275-15 MSD
Matrix: Solid
Analysis Batch: 1018682

Client Sample ID: IB-04-CS-4
Prep Type: Total/NA
Prep Batch: 1018659

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.13	U	4.51	4.10		mg/Kg	☼	91	29 - 100	0	40

Lab Sample ID: MB 460-1018660/1-A
Matrix: Solid
Analysis Batch: 1018682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		01/29/25 18:19	01/29/25 21:49	1

Lab Sample ID: LCSSRM 460-1018660/2-A ^20
Matrix: Solid
Analysis Batch: 1018682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018660

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	165	84.92		mg/Kg		51.3	14.9 - 114.5

Lab Sample ID: 460-319275-35 MS
Matrix: Solid
Analysis Batch: 1018682

Client Sample ID: 2A-07-CS-4
Prep Type: Total/NA
Prep Batch: 1018660

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.13	U	4.37	3.91		mg/Kg	☼	89	29 - 100		

Lab Sample ID: 460-319275-35 MSD
Matrix: Solid
Analysis Batch: 1018682

Client Sample ID: 2A-07-CS-4
Prep Type: Total/NA
Prep Batch: 1018660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.13	U	4.37	4.15		mg/Kg	☼	95	29 - 100	6	40

Lab Sample ID: MB 460-1018763/13-A
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0040	U	0.010	0.0040	mg/L		01/30/25 09:24	01/30/25 12:36	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 460-1018763/14-A
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0980		mg/L		98	85 - 115

Lab Sample ID: MRL 460-1018763/12-A
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0101		mg/L		101	50 - 150

Lab Sample ID: 460-319086-F-1-B MS
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0040	U	0.200	0.201		mg/L		101	90 - 110

Lab Sample ID: 460-319086-F-1-C MSD
Matrix: Water
Analysis Batch: 1018797

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0040	U	0.200	0.201		mg/L		101	90 - 110	0	35

Lab Sample ID: MB 460-1024738/1-A
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		03/07/25 18:23	03/09/25 15:48	1

Lab Sample ID: LCSSRM 460-1024738/2-A ^20
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024738

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	172	92.16		mg/Kg		53.6	14.9 - 114.5

Lab Sample ID: 460-319275-13 MS
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.11	U H	4.34	3.99	H	mg/Kg	☼	92	29 - 100

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 460-319275-13 MSD
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: IB-05-CS-4
Prep Type: Total/NA
Prep Batch: 1024738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.11	U H	4.05	3.95	H	mg/Kg	☼	98	29 - 100	1	40

Lab Sample ID: MB 460-1024739/1-A
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1024739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		03/07/25 18:26	03/09/25 16:18	1

Lab Sample ID: LCSSRM 460-1024739/2-A ^20
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024739

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	172	85.92		mg/Kg		50.0	14.9 - 114.5

Lab Sample ID: 460-319275-32 MS
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: 2A-06-CS-4
Prep Type: Total/NA
Prep Batch: 1024739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.43	H	4.65	4.33		mg/Kg	☼	84	29 - 100

Lab Sample ID: 460-319275-32 MSD
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: 2A-06-CS-4
Prep Type: Total/NA
Prep Batch: 1024739

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.43	H	4.65	4.54		mg/Kg	☼	88	29 - 100	5	40

Lab Sample ID: MRL 460-1024952/12-A
Matrix: Solid
Analysis Batch: 1024960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1024952

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0103		mg/L		103	50 - 150

Method: Moisture - Percent Moisture

Lab Sample ID: 460-319275-5 DU
Matrix: Solid
Analysis Batch: 1018207

Client Sample ID: 4-04-CS-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.0	U	3.9		%		NC	20
Percent Solids	99.5		96.1		%		3	20

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 460-319275-20 DU
Matrix: Solid
Analysis Batch: 1018207

Client Sample ID: Dup-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.5			1.9	F5	%				27	20
Percent Solids	98.5			98.1		%				0.5	20

Lab Sample ID: 460-319275-30 DU
Matrix: Solid
Analysis Batch: 1018207

Client Sample ID: 2A-05-CS-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.0	U		3.8		%					20
Percent Solids	99.1			96.2		%					20

GC/MS VOA

Prep Batch: 1018092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	5035	
460-319275-4	4-01-CS	Total/NA	Solid	5035	
460-319275-5	4-04-CS-4	Total/NA	Solid	5035	
460-319275-6	4-04-CS-8	Total/NA	Solid	5035	
460-319275-7	4-03-TS	Total/NA	Solid	5035	
460-319275-8	4-03-CS-4	Total/NA	Solid	5035	
460-319275-9	4-03-CS-8	Total/NA	Solid	5035	
460-319275-10	IB-01-TS	Total/NA	Solid	5035	
460-319275-11	IB-01-CS	Total/NA	Solid	5035	
460-319275-12	Dup-04	Total/NA	Solid	5035	
460-319275-13	IB-05-CS-4	Total/NA	Solid	5035	
460-319275-14	IB-05-CS-8	Total/NA	Solid	5035	
460-319275-15	IB-04-CS-4	Total/NA	Solid	5035	
460-319275-16	IB-04-CS-8	Total/NA	Solid	5035	
460-319275-17	IB-06-TS	Total/NA	Solid	5035	
460-319275-18	IB-06-CS-4	Total/NA	Solid	5035	
460-319275-19	IB-06-CS-8	Total/NA	Solid	5035	
460-319275-20	Dup-05	Total/NA	Solid	5035	
460-319275-21	IB-02-TS	Total/NA	Solid	5035	
460-319275-22	IB-02-CS	Total/NA	Solid	5035	
460-319275-23	IB-03-TS	Total/NA	Solid	5035	
460-319275-24	IB-03-CS	Total/NA	Solid	5035	
460-319275-25	2B-02-TS	Total/NA	Solid	5035	
460-319275-26	2B-02-CS	Total/NA	Solid	5035	
460-319275-27	2B-01-TS	Total/NA	Solid	5035	
460-319275-28	2B-01-CS	Total/NA	Solid	5035	
460-319275-29	2A-05-TS	Total/NA	Solid	5035	
460-319275-30	2A-05-CS-4	Total/NA	Solid	5035	
460-319275-31	2A-05-CS-8	Total/NA	Solid	5035	
460-319275-32	2A-06-CS-4	Total/NA	Solid	5035	
460-319275-33	2A-06-CS-8	Total/NA	Solid	5035	
460-319275-34	2A-07-TS	Total/NA	Solid	5035	
460-319275-35	2A-07-CS-4	Total/NA	Solid	5035	
460-319275-36	2A-07-CS-8	Total/NA	Solid	5035	
LB3 460-1018092/1-A	Method Blank	Total/NA	Solid	5035	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	5035	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	5035	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	5035	
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	5035	

Analysis Batch: 1018322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	8260D	
MB 460-1018322/10	Method Blank	Total/NA	Water	8260D	
LCS 460-1018322/14	Lab Control Sample	Total/NA	Water	8260D	
460-319223-B-1 MS	Matrix Spike	Total/NA	Water	8260D	
460-319223-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 1018424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-2	Trip Blank	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 1018424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1018424/9	Method Blank	Total/NA	Water	8260D	
LCS 460-1018424/4	Lab Control Sample	Total/NA	Water	8260D	
460-319312-A-1 MS	Matrix Spike	Total/NA	Water	8260D	
460-319312-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 1018633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	8260D	1018092
460-319275-6	4-04-CS-8	Total/NA	Solid	8260D	1018092
460-319275-10	IB-01-TS	Total/NA	Solid	8260D	1018092
460-319275-11	IB-01-CS	Total/NA	Solid	8260D	1018092
460-319275-12	Dup-04	Total/NA	Solid	8260D	1018092
460-319275-15	IB-04-CS-4	Total/NA	Solid	8260D	1018092
460-319275-16	IB-04-CS-8	Total/NA	Solid	8260D	1018092
460-319275-21	IB-02-TS	Total/NA	Solid	8260D	1018092
460-319275-22	IB-02-CS	Total/NA	Solid	8260D	1018092
460-319275-25	2B-02-TS	Total/NA	Solid	8260D	1018092
460-319275-26	2B-02-CS	Total/NA	Solid	8260D	1018092
460-319275-29	2A-05-TS	Total/NA	Solid	8260D	1018092
460-319275-30	2A-05-CS-4	Total/NA	Solid	8260D	1018092
460-319275-31	2A-05-CS-8	Total/NA	Solid	8260D	1018092
460-319275-34	2A-07-TS	Total/NA	Solid	8260D	1018092
460-319275-35	2A-07-CS-4	Total/NA	Solid	8260D	1018092
460-319275-36	2A-07-CS-8	Total/NA	Solid	8260D	1018092
LB3 460-1018092/1-A	Method Blank	Total/NA	Solid	8260D	1018092
MB 460-1018633/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1018633/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1018633/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1018701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1018701/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1018701/3	Lab Control Sample	Total/NA	Solid	8260D	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	8260D	1018092
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	8260D	1018092

Analysis Batch: 1024342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	8260D	1018092
460-319275-4	4-01-CS	Total/NA	Solid	8260D	1018092
460-319275-7	4-03-TS	Total/NA	Solid	8260D	1018092
460-319275-8	4-03-CS-4	Total/NA	Solid	8260D	1018092
460-319275-9	4-03-CS-8	Total/NA	Solid	8260D	1018092
460-319275-13	IB-05-CS-4	Total/NA	Solid	8260D	1018092
460-319275-14	IB-05-CS-8	Total/NA	Solid	8260D	1018092
460-319275-17	IB-06-TS	Total/NA	Solid	8260D	1018092
460-319275-18	IB-06-CS-4	Total/NA	Solid	8260D	1018092
460-319275-19	IB-06-CS-8	Total/NA	Solid	8260D	1018092
460-319275-20	Dup-05	Total/NA	Solid	8260D	1018092
460-319275-23	IB-03-TS	Total/NA	Solid	8260D	1018092
460-319275-24	IB-03-CS	Total/NA	Solid	8260D	1018092

GC/MS VOA (Continued)

Analysis Batch: 1024342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-27	2B-01-TS	Total/NA	Solid	8260D	1018092
460-319275-28	2B-01-CS	Total/NA	Solid	8260D	1018092
460-319275-32	2A-06-CS-4	Total/NA	Solid	8260D	1018092
MB 460-1024342/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1024342/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1024342/4	Lab Control Sample Dup	Total/NA	Solid	8260D	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	8260D	1018092
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	8260D	1018092

Analysis Batch: 1024609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-33	2A-06-CS-8	Total/NA	Solid	8260D	1018092
MB 460-1024609/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1024609/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1024609/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 1018142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	3510C	
MB 460-1018142/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018142/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018142/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 1018152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	8270E	1018142
MB 460-1018142/1-A	Method Blank	Total/NA	Water	8270E	1018142
LCS 460-1018142/2-A	Lab Control Sample	Total/NA	Water	8270E	1018142
LCSD 460-1018142/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	1018142

Prep Batch: 1018392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	3546	
460-319275-6	4-04-CS-8	Total/NA	Solid	3546	
460-319275-10	IB-01-TS	Total/NA	Solid	3546	
460-319275-11	IB-01-CS	Total/NA	Solid	3546	
460-319275-12	Dup-04	Total/NA	Solid	3546	
460-319275-15	IB-04-CS-4	Total/NA	Solid	3546	
460-319275-16	IB-04-CS-8	Total/NA	Solid	3546	
460-319275-21	IB-02-TS	Total/NA	Solid	3546	
460-319275-22	IB-02-CS	Total/NA	Solid	3546	
460-319275-25	2B-02-TS	Total/NA	Solid	3546	
460-319275-26	2B-02-CS	Total/NA	Solid	3546	
460-319275-29	2A-05-TS	Total/NA	Solid	3546	
460-319275-30	2A-05-CS-4	Total/NA	Solid	3546	
460-319275-31	2A-05-CS-8	Total/NA	Solid	3546	
460-319275-34	2A-07-TS	Total/NA	Solid	3546	
460-319275-35	2A-07-CS-4	Total/NA	Solid	3546	
460-319275-36	2A-07-CS-8	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 1018392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1018392/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018392/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018392/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	3546	
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	3546	

Analysis Batch: 1018444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	8270E	1018392
460-319275-6	4-04-CS-8	Total/NA	Solid	8270E	1018392
460-319275-10	IB-01-TS	Total/NA	Solid	8270E	1018392
460-319275-11	IB-01-CS	Total/NA	Solid	8270E	1018392
460-319275-12	Dup-04	Total/NA	Solid	8270E	1018392
460-319275-15	IB-04-CS-4	Total/NA	Solid	8270E	1018392
460-319275-16	IB-04-CS-8	Total/NA	Solid	8270E	1018392
460-319275-21	IB-02-TS	Total/NA	Solid	8270E	1018392
460-319275-22	IB-02-CS	Total/NA	Solid	8270E	1018392
460-319275-25	2B-02-TS	Total/NA	Solid	8270E	1018392
460-319275-26	2B-02-CS	Total/NA	Solid	8270E	1018392
460-319275-29	2A-05-TS	Total/NA	Solid	8270E	1018392
460-319275-30	2A-05-CS-4	Total/NA	Solid	8270E	1018392
460-319275-31	2A-05-CS-8	Total/NA	Solid	8270E	1018392
460-319275-34	2A-07-TS	Total/NA	Solid	8270E	1018392
460-319275-35	2A-07-CS-4	Total/NA	Solid	8270E	1018392
460-319275-36	2A-07-CS-8	Total/NA	Solid	8270E	1018392
MB 460-1018392/1-A	Method Blank	Total/NA	Solid	8270E	1018392
LCS 460-1018392/2-A	Lab Control Sample	Total/NA	Solid	8270E	1018392
LCSD 460-1018392/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1018392
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	8270E	1018392
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	8270E	1018392

Prep Batch: 1023976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	3546	
460-319275-4	4-01-CS	Total/NA	Solid	3546	
460-319275-7	4-03-TS	Total/NA	Solid	3546	
460-319275-8	4-03-CS-4	Total/NA	Solid	3546	
460-319275-9	4-03-CS-8	Total/NA	Solid	3546	
460-319275-13	IB-05-CS-4	Total/NA	Solid	3546	
460-319275-14	IB-05-CS-8	Total/NA	Solid	3546	
460-319275-17	IB-06-TS	Total/NA	Solid	3546	
460-319275-18	IB-06-CS-4	Total/NA	Solid	3546	
460-319275-19	IB-06-CS-8	Total/NA	Solid	3546	
460-319275-20	Dup-05	Total/NA	Solid	3546	
460-319275-23	IB-03-TS	Total/NA	Solid	3546	
460-319275-24	IB-03-CS	Total/NA	Solid	3546	
460-319275-27	2B-01-TS	Total/NA	Solid	3546	
460-319275-28	2B-01-CS	Total/NA	Solid	3546	
460-319275-32	2A-06-CS-4	Total/NA	Solid	3546	
460-319275-33	2A-06-CS-8	Total/NA	Solid	3546	
MB 460-1023976/1-A	Method Blank	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 1023976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-1023976/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1023976/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	3546	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	3546	

Analysis Batch: 1023993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-7	4-03-TS	Total/NA	Solid	8270E	1023976
460-319275-17	IB-06-TS	Total/NA	Solid	8270E	1023976
460-319275-27	2B-01-TS	Total/NA	Solid	8270E	1023976
460-319275-32	2A-06-CS-4	Total/NA	Solid	8270E	1023976

Analysis Batch: 1023996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	8270E	1023976
460-319275-4	4-01-CS	Total/NA	Solid	8270E	1023976
460-319275-8	4-03-CS-4	Total/NA	Solid	8270E	1023976
460-319275-9	4-03-CS-8	Total/NA	Solid	8270E	1023976
460-319275-13	IB-05-CS-4	Total/NA	Solid	8270E	1023976
460-319275-14	IB-05-CS-8	Total/NA	Solid	8270E	1023976
460-319275-18	IB-06-CS-4	Total/NA	Solid	8270E	1023976
460-319275-19	IB-06-CS-8	Total/NA	Solid	8270E	1023976
460-319275-20	Dup-05	Total/NA	Solid	8270E	1023976
460-319275-23	IB-03-TS	Total/NA	Solid	8270E	1023976
460-319275-24	IB-03-CS	Total/NA	Solid	8270E	1023976
460-319275-28	2B-01-CS	Total/NA	Solid	8270E	1023976
460-319275-33	2A-06-CS-8	Total/NA	Solid	8270E	1023976
MB 460-1023976/1-A	Method Blank	Total/NA	Solid	8270E	1023976
LCS 460-1023976/2-A	Lab Control Sample	Total/NA	Solid	8270E	1023976
LCSD 460-1023976/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1023976
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	8270E	1023976
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	8270E	1023976

GC Semi VOA

Prep Batch: 1018144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	3510C	
MB 460-1018144/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018144/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018144/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 1018145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	3510C	
MB 460-1018145/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018145/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018145/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Analysis Batch: 1018166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	8081B	1018144
MB 460-1018144/1-A	Method Blank	Total/NA	Water	8081B	1018144
LCS 460-1018144/2-A	Lab Control Sample	Total/NA	Water	8081B	1018144
LCSD 460-1018144/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	1018144

Analysis Batch: 1018250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	8082A	1018145
MB 460-1018145/1-A	Method Blank	Total/NA	Water	8082A	1018145
LCS 460-1018145/2-A	Lab Control Sample	Total/NA	Water	8082A	1018145
LCSD 460-1018145/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	1018145

Prep Batch: 1018341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	3546	
460-319275-6	4-04-CS-8	Total/NA	Solid	3546	
460-319275-10	IB-01-TS	Total/NA	Solid	3546	
460-319275-11	IB-01-CS	Total/NA	Solid	3546	
460-319275-12	Dup-04	Total/NA	Solid	3546	
460-319275-15	IB-04-CS-4	Total/NA	Solid	3546	
460-319275-16	IB-04-CS-8	Total/NA	Solid	3546	
460-319275-21	IB-02-TS	Total/NA	Solid	3546	
460-319275-22	IB-02-CS	Total/NA	Solid	3546	
460-319275-25	2B-02-TS	Total/NA	Solid	3546	
460-319275-26	2B-02-CS	Total/NA	Solid	3546	
460-319275-29	2A-05-TS	Total/NA	Solid	3546	
460-319275-30	2A-05-CS-4	Total/NA	Solid	3546	
460-319275-31	2A-05-CS-8	Total/NA	Solid	3546	
460-319275-34	2A-07-TS	Total/NA	Solid	3546	
460-319275-35	2A-07-CS-4	Total/NA	Solid	3546	
460-319275-36	2A-07-CS-8	Total/NA	Solid	3546	
MB 460-1018341/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018341/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018341/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	3546	
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	3546	

Prep Batch: 1018342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	3546	
460-319275-6	4-04-CS-8	Total/NA	Solid	3546	
460-319275-10	IB-01-TS	Total/NA	Solid	3546	
460-319275-11	IB-01-CS	Total/NA	Solid	3546	
460-319275-12	Dup-04	Total/NA	Solid	3546	
460-319275-15	IB-04-CS-4	Total/NA	Solid	3546	
460-319275-16	IB-04-CS-8	Total/NA	Solid	3546	
460-319275-21	IB-02-TS	Total/NA	Solid	3546	
460-319275-22	IB-02-CS	Total/NA	Solid	3546	
460-319275-25	2B-02-TS	Total/NA	Solid	3546	
460-319275-26	2B-02-CS	Total/NA	Solid	3546	
460-319275-29	2A-05-TS	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 1018342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-30	2A-05-CS-4	Total/NA	Solid	3546	
460-319275-31	2A-05-CS-8	Total/NA	Solid	3546	
460-319275-34	2A-07-TS	Total/NA	Solid	3546	
460-319275-35	2A-07-CS-4	Total/NA	Solid	3546	
460-319275-36	2A-07-CS-8	Total/NA	Solid	3546	
MB 460-1018342/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018342/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018342/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	3546	
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	3546	

Analysis Batch: 1018406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-6	4-04-CS-8	Total/NA	Solid	8081B	1018341
460-319275-10	IB-01-TS	Total/NA	Solid	8081B	1018341
460-319275-11	IB-01-CS	Total/NA	Solid	8081B	1018341
460-319275-12	Dup-04	Total/NA	Solid	8081B	1018341
460-319275-16	IB-04-CS-8	Total/NA	Solid	8081B	1018341
460-319275-21	IB-02-TS	Total/NA	Solid	8081B	1018341
460-319275-22	IB-02-CS	Total/NA	Solid	8081B	1018341
460-319275-25	2B-02-TS	Total/NA	Solid	8081B	1018341
460-319275-26	2B-02-CS	Total/NA	Solid	8081B	1018341
460-319275-29	2A-05-TS	Total/NA	Solid	8081B	1018341
460-319275-30	2A-05-CS-4	Total/NA	Solid	8081B	1018341
460-319275-31	2A-05-CS-8	Total/NA	Solid	8081B	1018341
460-319275-34	2A-07-TS	Total/NA	Solid	8081B	1018341
460-319275-35	2A-07-CS-4	Total/NA	Solid	8081B	1018341
460-319275-36	2A-07-CS-8	Total/NA	Solid	8081B	1018341
MB 460-1018341/1-A	Method Blank	Total/NA	Solid	8081B	1018341
LCS 460-1018341/2-A	Lab Control Sample	Total/NA	Solid	8081B	1018341
LCSD 460-1018341/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1018341
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	8081B	1018341
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	8081B	1018341

Analysis Batch: 1018409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	8082A	1018342
460-319275-6	4-04-CS-8	Total/NA	Solid	8082A	1018342
460-319275-10	IB-01-TS	Total/NA	Solid	8082A	1018342
460-319275-11	IB-01-CS	Total/NA	Solid	8082A	1018342
460-319275-12	Dup-04	Total/NA	Solid	8082A	1018342
460-319275-15	IB-04-CS-4	Total/NA	Solid	8082A	1018342
460-319275-16	IB-04-CS-8	Total/NA	Solid	8082A	1018342
460-319275-21	IB-02-TS	Total/NA	Solid	8082A	1018342
460-319275-22	IB-02-CS	Total/NA	Solid	8082A	1018342
460-319275-25	2B-02-TS	Total/NA	Solid	8082A	1018342
460-319275-26	2B-02-CS	Total/NA	Solid	8082A	1018342
460-319275-29	2A-05-TS	Total/NA	Solid	8082A	1018342
460-319275-30	2A-05-CS-4	Total/NA	Solid	8082A	1018342
460-319275-31	2A-05-CS-8	Total/NA	Solid	8082A	1018342
460-319275-34	2A-07-TS	Total/NA	Solid	8082A	1018342

GC Semi VOA (Continued)

Analysis Batch: 1018409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-35	2A-07-CS-4	Total/NA	Solid	8082A	1018342
460-319275-36	2A-07-CS-8	Total/NA	Solid	8082A	1018342
MB 460-1018342/1-A	Method Blank	Total/NA	Solid	8082A	1018342
LCS 460-1018342/2-A	Lab Control Sample	Total/NA	Solid	8082A	1018342
LCSD 460-1018342/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1018342
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	8082A	1018342
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	8082A	1018342

Analysis Batch: 1018468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	8081B	1018341
460-319275-15	IB-04-CS-4	Total/NA	Solid	8081B	1018341

Prep Batch: 1018533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	3510C	
MB 460-1018533/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-1018533/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-1018533/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 1018559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	3546	
460-319275-6	4-04-CS-8	Total/NA	Solid	3546	
MB 460-1018559/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018559/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018559/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319264-E-3-A MS	Matrix Spike	Total/NA	Solid	3546	
460-319264-E-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1018583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	NJDEP EPH	1018533
MB 460-1018533/1-A	Method Blank	Total/NA	Water	NJDEP EPH	1018533
LCS 460-1018533/2-A	Lab Control Sample	Total/NA	Water	NJDEP EPH	1018533
LCSD 460-1018533/3-A	Lab Control Sample Dup	Total/NA	Water	NJDEP EPH	1018533

Prep Batch: 1018684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-10	IB-01-TS	Total/NA	Solid	3546	
460-319275-11	IB-01-CS	Total/NA	Solid	3546	
460-319275-12	Dup-04	Total/NA	Solid	3546	
460-319275-15	IB-04-CS-4	Total/NA	Solid	3546	
460-319275-16	IB-04-CS-8	Total/NA	Solid	3546	
460-319275-21	IB-02-TS	Total/NA	Solid	3546	
460-319275-22	IB-02-CS	Total/NA	Solid	3546	
460-319275-25	2B-02-TS	Total/NA	Solid	3546	
460-319275-26	2B-02-CS	Total/NA	Solid	3546	
460-319275-29	2A-05-TS	Total/NA	Solid	3546	
460-319275-30	2A-05-CS-4	Total/NA	Solid	3546	
460-319275-31	2A-05-CS-8	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 1018684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-34	2A-07-TS	Total/NA	Solid	3546	
460-319275-35	2A-07-CS-4	Total/NA	Solid	3546	
460-319275-36	2A-07-CS-8	Total/NA	Solid	3546	
MB 460-1018684/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018684/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018684/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	3546	
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	3546	

Analysis Batch: 1018742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	NJDEP EPH	1018559
460-319275-6	4-04-CS-8	Total/NA	Solid	NJDEP EPH	1018559
MB 460-1018559/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1018559
LCS 460-1018559/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1018559
LCSD 460-1018559/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1018559
460-319264-E-3-A MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1018559
460-319264-E-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1018559

Analysis Batch: 1018743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	NJDEP EPH	1018559
460-319275-6	4-04-CS-8	Total/NA	Solid	NJDEP EPH	1018559
MB 460-1018559/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1018559
LCS 460-1018559/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1018559
LCSD 460-1018559/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1018559
460-319264-E-3-A MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1018559
460-319264-E-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1018559

Analysis Batch: 1018789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319275-6	4-04-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319275-10	IB-01-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-11	IB-01-CS	Total/NA	Solid	NJ DEP EPH	
460-319275-12	Dup-04	Total/NA	Solid	NJ DEP EPH	
460-319275-15	IB-04-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319275-16	IB-04-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319275-21	IB-02-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-22	IB-02-CS	Total/NA	Solid	NJ DEP EPH	
460-319275-25	2B-02-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-26	2B-02-CS	Total/NA	Solid	NJ DEP EPH	
460-319275-29	2A-05-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-30	2A-05-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319275-31	2A-05-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319275-34	2A-07-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-35	2A-07-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319275-36	2A-07-CS-8	Total/NA	Solid	NJ DEP EPH	

GC Semi VOA

Analysis Batch: 1018830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-10	IB-01-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-11	IB-01-CS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-12	Dup-04	Total/NA	Solid	NJDEP EPH	1018684
460-319275-15	IB-04-CS-4	Total/NA	Solid	NJDEP EPH	1018684
460-319275-16	IB-04-CS-8	Total/NA	Solid	NJDEP EPH	1018684
460-319275-21	IB-02-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-22	IB-02-CS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-25	2B-02-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-26	2B-02-CS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-29	2A-05-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-30	2A-05-CS-4	Total/NA	Solid	NJDEP EPH	1018684
460-319275-31	2A-05-CS-8	Total/NA	Solid	NJDEP EPH	1018684
460-319275-34	2A-07-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-35	2A-07-CS-4	Total/NA	Solid	NJDEP EPH	1018684
460-319275-36	2A-07-CS-8	Total/NA	Solid	NJDEP EPH	1018684
MB 460-1018684/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1018684
LCS 460-1018684/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1018684
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	NJDEP EPH	1018684
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	NJDEP EPH	1018684

Analysis Batch: 1018831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-10	IB-01-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-11	IB-01-CS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-12	Dup-04	Total/NA	Solid	NJDEP EPH	1018684
460-319275-15	IB-04-CS-4	Total/NA	Solid	NJDEP EPH	1018684
460-319275-16	IB-04-CS-8	Total/NA	Solid	NJDEP EPH	1018684
460-319275-21	IB-02-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-22	IB-02-CS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-25	2B-02-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-26	2B-02-CS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-29	2A-05-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-30	2A-05-CS-4	Total/NA	Solid	NJDEP EPH	1018684
460-319275-31	2A-05-CS-8	Total/NA	Solid	NJDEP EPH	1018684
460-319275-34	2A-07-TS	Total/NA	Solid	NJDEP EPH	1018684
460-319275-35	2A-07-CS-4	Total/NA	Solid	NJDEP EPH	1018684
460-319275-36	2A-07-CS-8	Total/NA	Solid	NJDEP EPH	1018684
MB 460-1018684/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1018684
LCS 460-1018684/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1018684
LCSD 460-1018684/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1018684
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	NJDEP EPH	1018684
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	NJDEP EPH	1018684

Analysis Batch: 1018963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-1018684/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1018684

Prep Batch: 1024266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	3546	
460-319275-4	4-01-CS	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 1024266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-7	4-03-TS	Total/NA	Solid	3546	
460-319275-8	4-03-CS-4	Total/NA	Solid	3546	
460-319275-9	4-03-CS-8	Total/NA	Solid	3546	
460-319275-13	IB-05-CS-4	Total/NA	Solid	3546	
460-319275-14	IB-05-CS-8	Total/NA	Solid	3546	
460-319275-17	IB-06-TS	Total/NA	Solid	3546	
460-319275-18	IB-06-CS-4	Total/NA	Solid	3546	
460-319275-19	IB-06-CS-8	Total/NA	Solid	3546	
460-319275-20	Dup-05	Total/NA	Solid	3546	
460-319275-23	IB-03-TS	Total/NA	Solid	3546	
460-319275-24	IB-03-CS	Total/NA	Solid	3546	
460-319275-27	2B-01-TS	Total/NA	Solid	3546	
460-319275-28	2B-01-CS	Total/NA	Solid	3546	
460-319275-32	2A-06-CS-4	Total/NA	Solid	3546	
460-319275-33	2A-06-CS-8	Total/NA	Solid	3546	
MB 460-1024266/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024266/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024266/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	3546	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	3546	

Prep Batch: 1024268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	3546	
460-319275-4	4-01-CS	Total/NA	Solid	3546	
460-319275-7	4-03-TS	Total/NA	Solid	3546	
460-319275-8	4-03-CS-4	Total/NA	Solid	3546	
460-319275-9	4-03-CS-8	Total/NA	Solid	3546	
460-319275-13	IB-05-CS-4	Total/NA	Solid	3546	
460-319275-14	IB-05-CS-8	Total/NA	Solid	3546	
460-319275-17	IB-06-TS	Total/NA	Solid	3546	
460-319275-18	IB-06-CS-4	Total/NA	Solid	3546	
460-319275-19	IB-06-CS-8	Total/NA	Solid	3546	
460-319275-20	Dup-05	Total/NA	Solid	3546	
460-319275-23	IB-03-TS	Total/NA	Solid	3546	
460-319275-24	IB-03-CS	Total/NA	Solid	3546	
460-319275-27	2B-01-TS	Total/NA	Solid	3546	
460-319275-28	2B-01-CS	Total/NA	Solid	3546	
460-319275-32	2A-06-CS-4	Total/NA	Solid	3546	
460-319275-33	2A-06-CS-8	Total/NA	Solid	3546	
MB 460-1024268/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024268/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024268/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	3546	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	3546	

Analysis Batch: 1024330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	8081B	1024268
460-319275-4	4-01-CS	Total/NA	Solid	8081B	1024268
460-319275-7	4-03-TS	Total/NA	Solid	8081B	1024268

GC Semi VOA (Continued)

Analysis Batch: 1024330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-8	4-03-CS-4	Total/NA	Solid	8081B	1024268
460-319275-9	4-03-CS-8	Total/NA	Solid	8081B	1024268
460-319275-13	IB-05-CS-4	Total/NA	Solid	8081B	1024268
460-319275-14	IB-05-CS-8	Total/NA	Solid	8081B	1024268
460-319275-17	IB-06-TS	Total/NA	Solid	8081B	1024268
460-319275-18	IB-06-CS-4	Total/NA	Solid	8081B	1024268
460-319275-19	IB-06-CS-8	Total/NA	Solid	8081B	1024268
460-319275-20	Dup-05	Total/NA	Solid	8081B	1024268
460-319275-23	IB-03-TS	Total/NA	Solid	8081B	1024268
460-319275-24	IB-03-CS	Total/NA	Solid	8081B	1024268
460-319275-27	2B-01-TS	Total/NA	Solid	8081B	1024268
460-319275-28	2B-01-CS	Total/NA	Solid	8081B	1024268
460-319275-32	2A-06-CS-4	Total/NA	Solid	8081B	1024268
460-319275-33	2A-06-CS-8	Total/NA	Solid	8081B	1024268
MB 460-1024268/1-A	Method Blank	Total/NA	Solid	8081B	1024268
LCS 460-1024268/2-A	Lab Control Sample	Total/NA	Solid	8081B	1024268
LCSD 460-1024268/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1024268
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	8081B	1024268
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	8081B	1024268

Analysis Batch: 1024360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	8082A	1024266
460-319275-4	4-01-CS	Total/NA	Solid	8082A	1024266
460-319275-7	4-03-TS	Total/NA	Solid	8082A	1024266
460-319275-8	4-03-CS-4	Total/NA	Solid	8082A	1024266
460-319275-9	4-03-CS-8	Total/NA	Solid	8082A	1024266
460-319275-13	IB-05-CS-4	Total/NA	Solid	8082A	1024266
460-319275-14	IB-05-CS-8	Total/NA	Solid	8082A	1024266
460-319275-17	IB-06-TS	Total/NA	Solid	8082A	1024266
460-319275-18	IB-06-CS-4	Total/NA	Solid	8082A	1024266
460-319275-19	IB-06-CS-8	Total/NA	Solid	8082A	1024266
460-319275-20	Dup-05	Total/NA	Solid	8082A	1024266
460-319275-23	IB-03-TS	Total/NA	Solid	8082A	1024266
460-319275-24	IB-03-CS	Total/NA	Solid	8082A	1024266
460-319275-27	2B-01-TS	Total/NA	Solid	8082A	1024266
460-319275-28	2B-01-CS	Total/NA	Solid	8082A	1024266
460-319275-32	2A-06-CS-4	Total/NA	Solid	8082A	1024266
460-319275-33	2A-06-CS-8	Total/NA	Solid	8082A	1024266
MB 460-1024266/1-A	Method Blank	Total/NA	Solid	8082A	1024266
LCS 460-1024266/2-A	Lab Control Sample	Total/NA	Solid	8082A	1024266
LCSD 460-1024266/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1024266
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	8082A	1024266
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	8082A	1024266

Prep Batch: 1024433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	3546	
460-319275-4	4-01-CS	Total/NA	Solid	3546	
460-319275-7	4-03-TS	Total/NA	Solid	3546	
460-319275-8	4-03-CS-4	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 1024433 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-9	4-03-CS-8	Total/NA	Solid	3546	
MB 460-1024433/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024433/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024433/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319229-H-11-J MS	Matrix Spike	Total/NA	Solid	3546	
460-319229-H-11-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 1024460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-4	4-01-CS	Total/NA	Solid	NJDEP EPH	1024433
460-319275-7	4-03-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319275-8	4-03-CS-4	Total/NA	Solid	NJDEP EPH	1024433
460-319275-9	4-03-CS-8	Total/NA	Solid	NJDEP EPH	1024433
MB 460-1024433/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024433
LCS 460-1024433/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024433
LCSD 460-1024433/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024433
460-319229-H-11-J MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1024433
460-319229-H-11-K MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1024433

Analysis Batch: 1024461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319275-4	4-01-CS	Total/NA	Solid	NJDEP EPH	1024433
460-319275-7	4-03-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319275-8	4-03-CS-4	Total/NA	Solid	NJDEP EPH	1024433
460-319275-9	4-03-CS-8	Total/NA	Solid	NJDEP EPH	1024433
MB 460-1024433/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024433
LCS 460-1024433/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024433
LCSD 460-1024433/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024433
460-319229-H-11-J MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1024433
460-319229-H-11-K MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1024433

Prep Batch: 1024577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-13	IB-05-CS-4	Total/NA	Solid	3546	
460-319275-14	IB-05-CS-8	Total/NA	Solid	3546	
460-319275-17	IB-06-TS	Total/NA	Solid	3546	
460-319275-18	IB-06-CS-4	Total/NA	Solid	3546	
460-319275-19	IB-06-CS-8	Total/NA	Solid	3546	
460-319275-20	Dup-05	Total/NA	Solid	3546	
460-319275-23	IB-03-TS	Total/NA	Solid	3546	
460-319275-24	IB-03-CS	Total/NA	Solid	3546	
460-319275-27	2B-01-TS	Total/NA	Solid	3546	
460-319275-28	2B-01-CS	Total/NA	Solid	3546	
460-319275-32	2A-06-CS-4	Total/NA	Solid	3546	
460-319275-33	2A-06-CS-8	Total/NA	Solid	3546	
MB 460-1024577/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1024577/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1024577/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	3546	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	3546	

GC Semi VOA

Analysis Batch: 1024669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	NJDEP EPH	1024433
460-319275-13	IB-05-CS-4	Total/NA	Solid	NJDEP EPH	1024577
460-319275-14	IB-05-CS-8	Total/NA	Solid	NJDEP EPH	1024577
460-319275-17	IB-06-TS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-18	IB-06-CS-4	Total/NA	Solid	NJDEP EPH	1024577
460-319275-19	IB-06-CS-8	Total/NA	Solid	NJDEP EPH	1024577
460-319275-20	Dup-05	Total/NA	Solid	NJDEP EPH	1024577
460-319275-23	IB-03-TS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-24	IB-03-CS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-27	2B-01-TS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-28	2B-01-CS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-32	2A-06-CS-4	Total/NA	Solid	NJDEP EPH	1024577
460-319275-33	2A-06-CS-8	Total/NA	Solid	NJDEP EPH	1024577
MB 460-1024577/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024577
LCS 460-1024577/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024577
LCSD 460-1024577/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024577
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	NJDEP EPH	1024577
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	NJDEP EPH	1024577

Analysis Batch: 1024670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-13	IB-05-CS-4	Total/NA	Solid	NJDEP EPH	1024577
460-319275-14	IB-05-CS-8	Total/NA	Solid	NJDEP EPH	1024577
460-319275-17	IB-06-TS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-18	IB-06-CS-4	Total/NA	Solid	NJDEP EPH	1024577
460-319275-19	IB-06-CS-8	Total/NA	Solid	NJDEP EPH	1024577
460-319275-20	Dup-05	Total/NA	Solid	NJDEP EPH	1024577
460-319275-23	IB-03-TS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-24	IB-03-CS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-27	2B-01-TS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-28	2B-01-CS	Total/NA	Solid	NJDEP EPH	1024577
460-319275-32	2A-06-CS-4	Total/NA	Solid	NJDEP EPH	1024577
460-319275-33	2A-06-CS-8	Total/NA	Solid	NJDEP EPH	1024577
MB 460-1024577/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1024577
LCS 460-1024577/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1024577
LCSD 460-1024577/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1024577
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	NJDEP EPH	1024577
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	NJDEP EPH	1024577

Analysis Batch: 1024694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-4	4-01-CS	Total/NA	Solid	NJ DEP EPH	
460-319275-7	4-03-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-8	4-03-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319275-9	4-03-CS-8	Total/NA	Solid	NJ DEP EPH	

Analysis Batch: 1024721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-13	IB-05-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319275-14	IB-05-CS-8	Total/NA	Solid	NJ DEP EPH	

GC Semi VOA (Continued)

Analysis Batch: 1024721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-17	IB-06-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-18	IB-06-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319275-19	IB-06-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319275-20	Dup-05	Total/NA	Solid	NJ DEP EPH	
460-319275-23	IB-03-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-24	IB-03-CS	Total/NA	Solid	NJ DEP EPH	
460-319275-27	2B-01-TS	Total/NA	Solid	NJ DEP EPH	
460-319275-28	2B-01-CS	Total/NA	Solid	NJ DEP EPH	
460-319275-32	2A-06-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319275-33	2A-06-CS-8	Total/NA	Solid	NJ DEP EPH	

Metals

Prep Batch: 1018237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	7470A	
MB 460-1018237/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-1018237/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-319201-C-1-D MS	Matrix Spike	Total/NA	Water	7470A	
460-319201-C-1-C DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 1018264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	7470A	1018237
MB 460-1018237/1-A	Method Blank	Total/NA	Water	7470A	1018237
LCS 460-1018237/2-A	Lab Control Sample	Total/NA	Water	7470A	1018237
460-319201-C-1-D MS	Matrix Spike	Total/NA	Water	7470A	1018237
460-319201-C-1-C DU	Duplicate	Total/NA	Water	7470A	1018237

Prep Batch: 1018461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	7471B	
460-319275-6	4-04-CS-8	Total/NA	Solid	7471B	
460-319275-10	IB-01-TS	Total/NA	Solid	7471B	
460-319275-11	IB-01-CS	Total/NA	Solid	7471B	
460-319275-12	Dup-04	Total/NA	Solid	7471B	
460-319275-15	IB-04-CS-4	Total/NA	Solid	7471B	
460-319275-16	IB-04-CS-8	Total/NA	Solid	7471B	
460-319275-21	IB-02-TS	Total/NA	Solid	7471B	
460-319275-22	IB-02-CS	Total/NA	Solid	7471B	
460-319275-25	2B-02-TS	Total/NA	Solid	7471B	
460-319275-26	2B-02-CS	Total/NA	Solid	7471B	
460-319275-29	2A-05-TS	Total/NA	Solid	7471B	
460-319275-30	2A-05-CS-4	Total/NA	Solid	7471B	
460-319275-31	2A-05-CS-8	Total/NA	Solid	7471B	
460-319275-34	2A-07-TS	Total/NA	Solid	7471B	
460-319275-35	2A-07-CS-4	Total/NA	Solid	7471B	
460-319275-36	2A-07-CS-8	Total/NA	Solid	7471B	
MB 460-1018461/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1018461/11-A	Lab Control Sample	Total/NA	Solid	7471B	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 1018461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	7471B	
460-319275-15 DU	IB-04-CS-4	Total/NA	Solid	7471B	

Prep Batch: 1018513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	3050B	
460-319275-6	4-04-CS-8	Total/NA	Solid	3050B	
460-319275-10	IB-01-TS	Total/NA	Solid	3050B	
460-319275-11	IB-01-CS	Total/NA	Solid	3050B	
460-319275-12	Dup-04	Total/NA	Solid	3050B	
460-319275-15	IB-04-CS-4	Total/NA	Solid	3050B	
460-319275-16	IB-04-CS-8	Total/NA	Solid	3050B	
460-319275-21	IB-02-TS	Total/NA	Solid	3050B	
460-319275-22	IB-02-CS	Total/NA	Solid	3050B	
460-319275-25	2B-02-TS	Total/NA	Solid	3050B	
460-319275-26	2B-02-CS	Total/NA	Solid	3050B	
460-319275-29	2A-05-TS	Total/NA	Solid	3050B	
460-319275-30	2A-05-CS-4	Total/NA	Solid	3050B	
460-319275-31	2A-05-CS-8	Total/NA	Solid	3050B	
460-319275-34	2A-07-TS	Total/NA	Solid	3050B	
460-319275-35	2A-07-CS-4	Total/NA	Solid	3050B	
460-319275-36	2A-07-CS-8	Total/NA	Solid	3050B	
MB 460-1018513/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1018513/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	3050B	
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	3050B	
460-319275-15 DU	IB-04-CS-4	Total/NA	Solid	3050B	

Analysis Batch: 1018522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	7471B	1018461
460-319275-6	4-04-CS-8	Total/NA	Solid	7471B	1018461
460-319275-10	IB-01-TS	Total/NA	Solid	7471B	1018461
460-319275-11	IB-01-CS	Total/NA	Solid	7471B	1018461
460-319275-12	Dup-04	Total/NA	Solid	7471B	1018461
460-319275-15	IB-04-CS-4	Total/NA	Solid	7471B	1018461
460-319275-16	IB-04-CS-8	Total/NA	Solid	7471B	1018461
460-319275-21	IB-02-TS	Total/NA	Solid	7471B	1018461
460-319275-22	IB-02-CS	Total/NA	Solid	7471B	1018461
460-319275-25	2B-02-TS	Total/NA	Solid	7471B	1018461
460-319275-26	2B-02-CS	Total/NA	Solid	7471B	1018461
460-319275-29	2A-05-TS	Total/NA	Solid	7471B	1018461
460-319275-30	2A-05-CS-4	Total/NA	Solid	7471B	1018461
460-319275-31	2A-05-CS-8	Total/NA	Solid	7471B	1018461
460-319275-34	2A-07-TS	Total/NA	Solid	7471B	1018461
460-319275-35	2A-07-CS-4	Total/NA	Solid	7471B	1018461
460-319275-36	2A-07-CS-8	Total/NA	Solid	7471B	1018461
MB 460-1018461/10-A	Method Blank	Total/NA	Solid	7471B	1018461
LCSSRM 460-1018461/11-A	Lab Control Sample	Total/NA	Solid	7471B	1018461
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	7471B	1018461
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	7471B	1018461

Metals (Continued)

Analysis Batch: 1018522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-15 DU	IB-04-CS-4	Total/NA	Solid	7471B	1018461

Prep Batch: 1018569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	3010A	
MB 460-1018569/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-1018569/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-319067-L-1-C MS	Matrix Spike	Total/NA	Water	3010A	
460-319067-L-1-B DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 1018609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	6020B	1018569
MB 460-1018569/1-A	Method Blank	Total/NA	Water	6020B	1018569
LCS 460-1018569/2-A	Lab Control Sample	Total/NA	Water	6020B	1018569
460-319067-L-1-C MS	Matrix Spike	Total/NA	Water	6020B	1018569
460-319067-L-1-B DU	Duplicate	Total/NA	Water	6020B	1018569

Analysis Batch: 1018820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	6020B	1018569
460-319275-5	4-04-CS-4	Total/NA	Solid	6020B	1018513
460-319275-6	4-04-CS-8	Total/NA	Solid	6020B	1018513
460-319275-10	IB-01-TS	Total/NA	Solid	6020B	1018513
460-319275-11	IB-01-CS	Total/NA	Solid	6020B	1018513
460-319275-12	Dup-04	Total/NA	Solid	6020B	1018513
460-319275-15	IB-04-CS-4	Total/NA	Solid	6020B	1018513
460-319275-16	IB-04-CS-8	Total/NA	Solid	6020B	1018513
460-319275-21	IB-02-TS	Total/NA	Solid	6020B	1018513
460-319275-22	IB-02-CS	Total/NA	Solid	6020B	1018513
460-319275-25	2B-02-TS	Total/NA	Solid	6020B	1018513
460-319275-26	2B-02-CS	Total/NA	Solid	6020B	1018513
460-319275-29	2A-05-TS	Total/NA	Solid	6020B	1018513
460-319275-30	2A-05-CS-4	Total/NA	Solid	6020B	1018513
460-319275-31	2A-05-CS-8	Total/NA	Solid	6020B	1018513
460-319275-34	2A-07-TS	Total/NA	Solid	6020B	1018513
460-319275-35	2A-07-CS-4	Total/NA	Solid	6020B	1018513
460-319275-36	2A-07-CS-8	Total/NA	Solid	6020B	1018513
MB 460-1018513/1-A	Method Blank	Total/NA	Solid	6020B	1018513
LCSSRM 460-1018513/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1018513
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	6020B	1018513
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	6020B	1018513
460-319275-15 DU	IB-04-CS-4	Total/NA	Solid	6020B	1018513

Prep Batch: 1024098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	7471B	
460-319275-4	4-01-CS	Total/NA	Solid	7471B	
460-319275-7	4-03-TS	Total/NA	Solid	7471B	
460-319275-8	4-03-CS-4	Total/NA	Solid	7471B	
460-319275-9	4-03-CS-8	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 1024098 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-14	IB-05-CS-8	Total/NA	Solid	7471B	
MB 460-1024098/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1024098/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319165-B-15-A MS	Matrix Spike	Total/NA	Solid	7471B	
460-319165-C-15-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-319165-C-15-H DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 1024137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	7471B	1024098
460-319275-4	4-01-CS	Total/NA	Solid	7471B	1024098
460-319275-7	4-03-TS	Total/NA	Solid	7471B	1024098
460-319275-8	4-03-CS-4	Total/NA	Solid	7471B	1024098
460-319275-9	4-03-CS-8	Total/NA	Solid	7471B	1024098
460-319275-14	IB-05-CS-8	Total/NA	Solid	7471B	1024098
MB 460-1024098/1-A	Method Blank	Total/NA	Solid	7471B	1024098
LCSSRM 460-1024098/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1024098
460-319165-B-15-A MS	Matrix Spike	Total/NA	Solid	7471B	1024098
460-319165-C-15-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	1024098
460-319165-C-15-H DU	Duplicate	Total/NA	Solid	7471B	1024098

Prep Batch: 1024585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-17	IB-06-TS	Total/NA	Solid	7471B	
460-319275-18	IB-06-CS-4	Total/NA	Solid	7471B	
460-319275-19	IB-06-CS-8	Total/NA	Solid	7471B	
460-319275-20	Dup-05	Total/NA	Solid	7471B	
460-319275-23	IB-03-TS	Total/NA	Solid	7471B	
460-319275-24	IB-03-CS	Total/NA	Solid	7471B	
460-319275-27	2B-01-TS	Total/NA	Solid	7471B	
460-319275-28	2B-01-CS	Total/NA	Solid	7471B	
460-319275-32	2A-06-CS-4	Total/NA	Solid	7471B	
460-319275-33	2A-06-CS-8	Total/NA	Solid	7471B	
MB 460-1024585/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1024585/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319229-H-11-L MS	Matrix Spike	Total/NA	Solid	7471B	
460-319229-H-11-M MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-319229-G-11-G DU	Duplicate	Total/NA	Solid	7471B	

Prep Batch: 1024586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-13	IB-05-CS-4	Total/NA	Solid	7471B	
MB 460-1024586/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1024586/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	7471B	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	7471B	
460-319275-13 DU	IB-05-CS-4	Total/NA	Solid	7471B	

Analysis Batch: 1024639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-13	IB-05-CS-4	Total/NA	Solid	7471B	1024586

Metals (Continued)

Analysis Batch: 1024639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-17	IB-06-TS	Total/NA	Solid	7471B	1024585
460-319275-18	IB-06-CS-4	Total/NA	Solid	7471B	1024585
460-319275-19	IB-06-CS-8	Total/NA	Solid	7471B	1024585
460-319275-20	Dup-05	Total/NA	Solid	7471B	1024585
460-319275-23	IB-03-TS	Total/NA	Solid	7471B	1024585
460-319275-24	IB-03-CS	Total/NA	Solid	7471B	1024585
460-319275-27	2B-01-TS	Total/NA	Solid	7471B	1024585
460-319275-28	2B-01-CS	Total/NA	Solid	7471B	1024585
460-319275-32	2A-06-CS-4	Total/NA	Solid	7471B	1024585
460-319275-33	2A-06-CS-8	Total/NA	Solid	7471B	1024585
MB 460-1024585/1-A	Method Blank	Total/NA	Solid	7471B	1024585
MB 460-1024586/1-A	Method Blank	Total/NA	Solid	7471B	1024586
LCSSRM 460-1024585/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1024585
LCSSRM 460-1024586/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1024586
460-319229-H-11-L MS	Matrix Spike	Total/NA	Solid	7471B	1024585
460-319229-H-11-M MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	1024585
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	7471B	1024586
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	7471B	1024586
460-319229-G-11-G DU	Duplicate	Total/NA	Solid	7471B	1024585
460-319275-13 DU	IB-05-CS-4	Total/NA	Solid	7471B	1024586

Prep Batch: 1024711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	3050B	
460-319275-4	4-01-CS	Total/NA	Solid	3050B	
460-319275-7	4-03-TS	Total/NA	Solid	3050B	
460-319275-8	4-03-CS-4	Total/NA	Solid	3050B	
460-319275-9	4-03-CS-8	Total/NA	Solid	3050B	
460-319275-13	IB-05-CS-4	Total/NA	Solid	3050B	
460-319275-14	IB-05-CS-8	Total/NA	Solid	3050B	
460-319275-17	IB-06-TS	Total/NA	Solid	3050B	
460-319275-18	IB-06-CS-4	Total/NA	Solid	3050B	
460-319275-19	IB-06-CS-8	Total/NA	Solid	3050B	
460-319275-20	Dup-05	Total/NA	Solid	3050B	
460-319275-23	IB-03-TS	Total/NA	Solid	3050B	
460-319275-24	IB-03-CS	Total/NA	Solid	3050B	
460-319275-27	2B-01-TS	Total/NA	Solid	3050B	
460-319275-28	2B-01-CS	Total/NA	Solid	3050B	
460-319275-32	2A-06-CS-4	Total/NA	Solid	3050B	
460-319275-33	2A-06-CS-8	Total/NA	Solid	3050B	
MB 460-1024711/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1024711/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	3050B	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	3050B	
460-319275-13 DU	IB-05-CS-4	Total/NA	Solid	3050B	

Analysis Batch: 1024867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	6020B	1024711
460-319275-4	4-01-CS	Total/NA	Solid	6020B	1024711
460-319275-7	4-03-TS	Total/NA	Solid	6020B	1024711

Metals (Continued)

Analysis Batch: 1024867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-8	4-03-CS-4	Total/NA	Solid	6020B	1024711
460-319275-9	4-03-CS-8	Total/NA	Solid	6020B	1024711
460-319275-13	IB-05-CS-4	Total/NA	Solid	6020B	1024711
460-319275-14	IB-05-CS-8	Total/NA	Solid	6020B	1024711
460-319275-17	IB-06-TS	Total/NA	Solid	6020B	1024711
460-319275-18	IB-06-CS-4	Total/NA	Solid	6020B	1024711
460-319275-19	IB-06-CS-8	Total/NA	Solid	6020B	1024711
460-319275-20	Dup-05	Total/NA	Solid	6020B	1024711
460-319275-23	IB-03-TS	Total/NA	Solid	6020B	1024711
460-319275-24	IB-03-CS	Total/NA	Solid	6020B	1024711
460-319275-27	2B-01-TS	Total/NA	Solid	6020B	1024711
460-319275-28	2B-01-CS	Total/NA	Solid	6020B	1024711
460-319275-32	2A-06-CS-4	Total/NA	Solid	6020B	1024711
460-319275-33	2A-06-CS-8	Total/NA	Solid	6020B	1024711
MB 460-1024711/1-A	Method Blank	Total/NA	Solid	6020B	1024711
LCSSRM 460-1024711/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1024711
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	6020B	1024711
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	6020B	1024711
460-319275-13 DU	IB-05-CS-4	Total/NA	Solid	6020B	1024711

General Chemistry

Analysis Batch: 1018207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	Moisture	
460-319275-4	4-01-CS	Total/NA	Solid	Moisture	
460-319275-5	4-04-CS-4	Total/NA	Solid	Moisture	
460-319275-6	4-04-CS-8	Total/NA	Solid	Moisture	
460-319275-7	4-03-TS	Total/NA	Solid	Moisture	
460-319275-8	4-03-CS-4	Total/NA	Solid	Moisture	
460-319275-9	4-03-CS-8	Total/NA	Solid	Moisture	
460-319275-10	IB-01-TS	Total/NA	Solid	Moisture	
460-319275-11	IB-01-CS	Total/NA	Solid	Moisture	
460-319275-12	Dup-04	Total/NA	Solid	Moisture	
460-319275-13	IB-05-CS-4	Total/NA	Solid	Moisture	
460-319275-14	IB-05-CS-8	Total/NA	Solid	Moisture	
460-319275-15	IB-04-CS-4	Total/NA	Solid	Moisture	
460-319275-16	IB-04-CS-8	Total/NA	Solid	Moisture	
460-319275-17	IB-06-TS	Total/NA	Solid	Moisture	
460-319275-18	IB-06-CS-4	Total/NA	Solid	Moisture	
460-319275-19	IB-06-CS-8	Total/NA	Solid	Moisture	
460-319275-20	Dup-05	Total/NA	Solid	Moisture	
460-319275-21	IB-02-TS	Total/NA	Solid	Moisture	
460-319275-22	IB-02-CS	Total/NA	Solid	Moisture	
460-319275-23	IB-03-TS	Total/NA	Solid	Moisture	
460-319275-24	IB-03-CS	Total/NA	Solid	Moisture	
460-319275-25	2B-02-TS	Total/NA	Solid	Moisture	
460-319275-26	2B-02-CS	Total/NA	Solid	Moisture	
460-319275-27	2B-01-TS	Total/NA	Solid	Moisture	
460-319275-28	2B-01-CS	Total/NA	Solid	Moisture	
460-319275-29	2A-05-TS	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 1018207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-30	2A-05-CS-4	Total/NA	Solid	Moisture	
460-319275-31	2A-05-CS-8	Total/NA	Solid	Moisture	
460-319275-32	2A-06-CS-4	Total/NA	Solid	Moisture	
460-319275-33	2A-06-CS-8	Total/NA	Solid	Moisture	
460-319275-34	2A-07-TS	Total/NA	Solid	Moisture	
460-319275-35	2A-07-CS-4	Total/NA	Solid	Moisture	
460-319275-36	2A-07-CS-8	Total/NA	Solid	Moisture	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	Moisture	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	Moisture	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	Moisture	
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	Moisture	
460-319275-5 DU	4-04-CS-4	Total/NA	Solid	Moisture	
460-319275-20 DU	Dup-05	Total/NA	Solid	Moisture	
460-319275-30 DU	2A-05-CS-4	Total/NA	Solid	Moisture	

Prep Batch: 1018659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	9012B	
460-319275-6	4-04-CS-8	Total/NA	Solid	9012B	
460-319275-10	IB-01-TS	Total/NA	Solid	9012B	
460-319275-11	IB-01-CS	Total/NA	Solid	9012B	
460-319275-12	Dup-04	Total/NA	Solid	9012B	
460-319275-15	IB-04-CS-4	Total/NA	Solid	9012B	
460-319275-16	IB-04-CS-8	Total/NA	Solid	9012B	
460-319275-21	IB-02-TS	Total/NA	Solid	9012B	
460-319275-22	IB-02-CS	Total/NA	Solid	9012B	
460-319275-25	2B-02-TS	Total/NA	Solid	9012B	
460-319275-26	2B-02-CS	Total/NA	Solid	9012B	
460-319275-29	2A-05-TS	Total/NA	Solid	9012B	
460-319275-30	2A-05-CS-4	Total/NA	Solid	9012B	
460-319275-31	2A-05-CS-8	Total/NA	Solid	9012B	
460-319275-34	2A-07-TS	Total/NA	Solid	9012B	
MB 460-1018659/13-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1018659/14-A	Lab Control Sample	Total/NA	Solid	9012B	
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	9012B	
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	9012B	

Prep Batch: 1018660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-35	2A-07-CS-4	Total/NA	Solid	9012B	
460-319275-36	2A-07-CS-8	Total/NA	Solid	9012B	
MB 460-1018660/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1018660/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319275-35 MS	2A-07-CS-4	Total/NA	Solid	9012B	
460-319275-35 MSD	2A-07-CS-4	Total/NA	Solid	9012B	

Analysis Batch: 1018682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-5	4-04-CS-4	Total/NA	Solid	9012B	1018659
460-319275-6	4-04-CS-8	Total/NA	Solid	9012B	1018659
460-319275-10	IB-01-TS	Total/NA	Solid	9012B	1018659

General Chemistry (Continued)

Analysis Batch: 1018682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-11	IB-01-CS	Total/NA	Solid	9012B	1018659
460-319275-12	Dup-04	Total/NA	Solid	9012B	1018659
460-319275-15	IB-04-CS-4	Total/NA	Solid	9012B	1018659
460-319275-16	IB-04-CS-8	Total/NA	Solid	9012B	1018659
460-319275-21	IB-02-TS	Total/NA	Solid	9012B	1018659
460-319275-22	IB-02-CS	Total/NA	Solid	9012B	1018659
460-319275-25	2B-02-TS	Total/NA	Solid	9012B	1018659
460-319275-26	2B-02-CS	Total/NA	Solid	9012B	1018659
460-319275-29	2A-05-TS	Total/NA	Solid	9012B	1018659
460-319275-30	2A-05-CS-4	Total/NA	Solid	9012B	1018659
460-319275-31	2A-05-CS-8	Total/NA	Solid	9012B	1018659
460-319275-34	2A-07-TS	Total/NA	Solid	9012B	1018659
460-319275-35	2A-07-CS-4	Total/NA	Solid	9012B	1018660
460-319275-36	2A-07-CS-8	Total/NA	Solid	9012B	1018660
MB 460-1018659/13-A	Method Blank	Total/NA	Solid	9012B	1018659
MB 460-1018660/1-A	Method Blank	Total/NA	Solid	9012B	1018660
LCSSRM 460-1018659/14-A	Lab Control Sample	Total/NA	Solid	9012B	1018659
LCSSRM 460-1018660/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1018660
460-319275-15 MS	IB-04-CS-4	Total/NA	Solid	9012B	1018659
460-319275-15 MSD	IB-04-CS-4	Total/NA	Solid	9012B	1018659
460-319275-35 MS	2A-07-CS-4	Total/NA	Solid	9012B	1018660
460-319275-35 MSD	2A-07-CS-4	Total/NA	Solid	9012B	1018660

Prep Batch: 1018763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	9012B	
MB 460-1018763/13-A	Method Blank	Total/NA	Water	9012B	
LCS 460-1018763/14-A	Lab Control Sample	Total/NA	Water	9012B	
MRL 460-1018763/12-A	Lab Control Sample	Total/NA	Water	9012B	
460-319086-F-1-B MS	Matrix Spike	Total/NA	Water	9012B	
460-319086-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	

Analysis Batch: 1018797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-1	FB-20250124	Total/NA	Water	9012B	1018763
MB 460-1018763/13-A	Method Blank	Total/NA	Water	9012B	1018763
LCS 460-1018763/14-A	Lab Control Sample	Total/NA	Water	9012B	1018763
MRL 460-1018763/12-A	Lab Control Sample	Total/NA	Water	9012B	1018763
460-319086-F-1-B MS	Matrix Spike	Total/NA	Water	9012B	1018763
460-319086-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9012B	1018763

Prep Batch: 1024738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	9012B	
460-319275-4	4-01-CS	Total/NA	Solid	9012B	
460-319275-7	4-03-TS	Total/NA	Solid	9012B	
460-319275-8	4-03-CS-4	Total/NA	Solid	9012B	
460-319275-9	4-03-CS-8	Total/NA	Solid	9012B	
460-319275-13	IB-05-CS-4	Total/NA	Solid	9012B	
460-319275-14	IB-05-CS-8	Total/NA	Solid	9012B	
460-319275-17	IB-06-TS	Total/NA	Solid	9012B	

General Chemistry (Continued)

Prep Batch: 1024738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-18	IB-06-CS-4	Total/NA	Solid	9012B	
460-319275-19	IB-06-CS-8	Total/NA	Solid	9012B	
460-319275-20	Dup-05	Total/NA	Solid	9012B	
460-319275-23	IB-03-TS	Total/NA	Solid	9012B	
460-319275-24	IB-03-CS	Total/NA	Solid	9012B	
460-319275-27	2B-01-TS	Total/NA	Solid	9012B	
460-319275-28	2B-01-CS	Total/NA	Solid	9012B	
MB 460-1024738/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1024738/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	9012B	
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	9012B	

Prep Batch: 1024739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-32	2A-06-CS-4	Total/NA	Solid	9012B	
460-319275-33	2A-06-CS-8	Total/NA	Solid	9012B	
MB 460-1024739/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1024739/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319275-32 MS	2A-06-CS-4	Total/NA	Solid	9012B	
460-319275-32 MSD	2A-06-CS-4	Total/NA	Solid	9012B	

Prep Batch: 1024952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 460-1024952/12-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 1024960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-3	4-01-TS	Total/NA	Solid	9012B	1024738
460-319275-4	4-01-CS	Total/NA	Solid	9012B	1024738
460-319275-7	4-03-TS	Total/NA	Solid	9012B	1024738
460-319275-8	4-03-CS-4	Total/NA	Solid	9012B	1024738
460-319275-9	4-03-CS-8	Total/NA	Solid	9012B	1024738
460-319275-13	IB-05-CS-4	Total/NA	Solid	9012B	1024738
460-319275-14	IB-05-CS-8	Total/NA	Solid	9012B	1024738
460-319275-17	IB-06-TS	Total/NA	Solid	9012B	1024738
460-319275-18	IB-06-CS-4	Total/NA	Solid	9012B	1024738
460-319275-19	IB-06-CS-8	Total/NA	Solid	9012B	1024738
460-319275-20	Dup-05	Total/NA	Solid	9012B	1024738
460-319275-23	IB-03-TS	Total/NA	Solid	9012B	1024738
460-319275-24	IB-03-CS	Total/NA	Solid	9012B	1024738
460-319275-27	2B-01-TS	Total/NA	Solid	9012B	1024738
460-319275-28	2B-01-CS	Total/NA	Solid	9012B	1024738
460-319275-32	2A-06-CS-4	Total/NA	Solid	9012B	1024739
460-319275-33	2A-06-CS-8	Total/NA	Solid	9012B	1024739
MB 460-1024738/1-A	Method Blank	Total/NA	Solid	9012B	1024738
MB 460-1024739/1-A	Method Blank	Total/NA	Solid	9012B	1024739
LCSSRM 460-1024738/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1024738
LCSSRM 460-1024739/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1024739
MRL 460-1024952/12-A	Lab Control Sample	Total/NA	Solid	9012B	1024952
460-319275-13 MS	IB-05-CS-4	Total/NA	Solid	9012B	1024738
460-319275-13 MSD	IB-05-CS-4	Total/NA	Solid	9012B	1024738

General Chemistry (Continued)

Analysis Batch: 1024960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319275-32 MS	2A-06-CS-4	Total/NA	Solid	9012B	1024739
460-319275-32 MSD	2A-06-CS-4	Total/NA	Solid	9012B	1024739

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: FB-20250124
Date Collected: 01/24/25 12:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1018322	SZD	EET EDI	01/28/25 13:15
Total/NA	Prep	3510C			1018142	NMP	EET EDI	01/26/25 10:51
Total/NA	Analysis	8270E		1	1018152	YAH	EET EDI	01/26/25 16:03
Total/NA	Prep	3510C			1018144	ZEH	EET EDI	01/26/25 11:53
Total/NA	Analysis	8081B		1	1018166	FAM	EET EDI	01/27/25 09:56
Total/NA	Prep	3510C			1018145	ZEH	EET EDI	01/26/25 11:55
Total/NA	Analysis	8082A		1	1018250	AAA	EET EDI	01/27/25 23:49
Total/NA	Prep	3510C			1018533	BXP	EET EDI	01/29/25 08:31
Total/NA	Analysis	NJDEP EPH		1	1018583	OXG	EET EDI	01/29/25 15:07
Total/NA	Prep	3010A			1018569	NNW	EET EDI	01/29/25 10:44
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 14:18
Total/NA	Prep	3010A			1018569	NNW	EET EDI	01/29/25 10:44
Total/NA	Analysis	6020B		1	1018609	JKF	EET EDI	01/29/25 19:21
Total/NA	Prep	7470A			1018237	RBS	EET EDI	01/27/25 11:28
Total/NA	Analysis	7470A		1	1018264	RBS	EET EDI	01/27/25 14:36
Total/NA	Prep	9012B			1018763	SBW	EET EDI	01/30/25 09:24
Total/NA	Analysis	9012B		1	1018797	AXP	EET EDI	01/30/25 12:49

Client Sample ID: Trip Blank
Date Collected: 01/24/25 15:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1018424	VBP	EET EDI	01/28/25 22:37

Client Sample ID: 4-01-TS
Date Collected: 01/23/25 15:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 10:21

Client Sample ID: 4-01-TS
Date Collected: 01/23/25 15:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-3
Matrix: Solid
Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:05
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 08:54
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 23:22
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 04:42

Client Sample ID: 4-01-TS

Lab Sample ID: 460-319275-3

Date Collected: 01/23/25 15:30

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 09:23
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 22:51
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 14:06
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 11:55
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 07:08
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 15:56

Client Sample ID: 4-01-CS

Lab Sample ID: 460-319275-4

Date Collected: 01/23/25 15:40

Matrix: Solid

Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 10:21

Client Sample ID: 4-01-CS

Lab Sample ID: 460-319275-4

Date Collected: 01/23/25 15:40

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:06
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 10:00
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 18:37
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 04:54
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 09:56
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 23:06
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 23:06
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 11:57
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 07:10
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:01

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-04-CS-4
Date Collected: 01/23/25 16:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 10:21

Client Sample ID: 4-04-CS-4
Date Collected: 01/23/25 16:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-5
Matrix: Solid
Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:07
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/29/25 21:28
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 04:09
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018468	FAM	EET EDI	01/29/25 07:06
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 16:31
Total/NA	Prep	3546			1018559	FHW	EET EDI	01/29/25 17:26
Total/NA	Analysis	NJDEP EPH		1	1018742	JHP	EET EDI	01/30/25 10:44
Total/NA	Prep	3546			1018559	FHW	EET EDI	01/29/25 17:26
Total/NA	Analysis	NJDEP EPH		1	1018743	JHP	EET EDI	01/30/25 10:44
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 14:57
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:25
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:26

Client Sample ID: 4-04-CS-8
Date Collected: 01/23/25 16:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 4-04-CS-8
Date Collected: 01/23/25 16:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-6
Matrix: Solid
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:07
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/29/25 21:51
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 04:31

Client Sample ID: 4-04-CS-8

Lab Sample ID: 460-319275-6

Date Collected: 01/23/25 16:10
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 16:50
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 16:48
Total/NA	Prep	3546			1018559	FHW	EET EDI	01/29/25 17:26
Total/NA	Analysis	NJDEP EPH		1	1018742	JHP	EET EDI	01/30/25 11:00
Total/NA	Prep	3546			1018559	FHW	EET EDI	01/29/25 17:26
Total/NA	Analysis	NJDEP EPH		1	1018743	JHP	EET EDI	01/30/25 11:00
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:00
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:27
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:26

Client Sample ID: 4-03-TS

Lab Sample ID: 460-319275-7

Date Collected: 01/23/25 16:20
Matrix: Solid
Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 10:21

Client Sample ID: 4-03-TS

Lab Sample ID: 460-319275-7

Date Collected: 01/23/25 16:20
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:08
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 10:23
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 23:35
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 05:06
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 10:13
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 23:22
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 23:22
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:05
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 07:12

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-TS
Date Collected: 01/23/25 16:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-7
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:01

Client Sample ID: 4-03-CS-4
Date Collected: 01/23/25 16:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 4-03-CS-4
Date Collected: 01/23/25 16:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-8
Matrix: Solid
Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:09
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 10:46
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 18:59
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 05:18
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 10:30
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 23:38
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 23:38
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:08
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 07:13
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:02

Client Sample ID: 4-03-CS-8
Date Collected: 01/23/25 16:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024694	JHP	EET EDI	03/07/25 11:23
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 4-03-CS-8

Date Collected: 01/23/25 16:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-9

Matrix: Solid
Percent Solids: 99.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:09
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 11:09
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 14:30
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 05:31
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 10:46
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024460	JHP	EET EDI	03/06/25 23:53
Total/NA	Prep	3546			1024433	FHW	EET EDI	03/06/25 10:35
Total/NA	Analysis	NJDEP EPH		1	1024461	JHP	EET EDI	03/06/25 23:53
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:10
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 07:15
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:03

Client Sample ID: IB-01-TS

Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-01-TS

Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10

Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:10
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/29/25 22:14
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 03:24
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 17:03
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 17:04
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 18:07
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 18:07

Client Sample ID: IB-01-TS
Date Collected: 01/24/25 08:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-10
Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:02
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:29
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:32

Client Sample ID: IB-01-CS
Date Collected: 01/24/25 08:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-01-CS
Date Collected: 01/24/25 08:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-11
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:11
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/29/25 22:37
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/28/25 23:19
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 17:16
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 17:21
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 18:22
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 18:22
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:05
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:34
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:33

Client Sample ID: Dup-04
Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49

Client Sample ID: Dup-04
Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: Dup-04
Date Collected: 01/24/25 12:04
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-12
Matrix: Solid
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:12
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/29/25 23:01
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/28/25 23:41
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 17:29
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 17:38
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 18:38
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 18:38
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:07
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:36
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:34

Client Sample ID: IB-05-CS-4
Date Collected: 01/24/25 09:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-05-CS-4
Date Collected: 01/24/25 09:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-13
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:12
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 11:32
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 13:23
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 05:43

Client Sample ID: IB-05-CS-4

Lab Sample ID: 460-319275-13

Date Collected: 01/24/25 09:00
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 11:03
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 09:57
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 10:13
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 11:50
Total/NA	Prep	7471B			1024586	TJS	EET EDI	03/07/25 01:20
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 06:06
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:04

Client Sample ID: IB-05-CS-8

Lab Sample ID: 460-319275-14

Date Collected: 01/24/25 09:10
Matrix: Solid
Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 10:21

Client Sample ID: IB-05-CS-8

Lab Sample ID: 460-319275-14

Date Collected: 01/24/25 09:10
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:14
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 13:04
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 15:15
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 06:20
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 11:20
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 10:13
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 10:28
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:13
Total/NA	Prep	7471B			1024098	TJS	EET EDI	03/05/25 01:20
Total/NA	Analysis	7471B		1	1024137	TJS	EET EDI	03/05/25 07:17
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:07

Client Sample ID: IB-04-CS-4
Date Collected: 01/24/25 09:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 10:21

Client Sample ID: IB-04-CS-4
Date Collected: 01/24/25 09:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-15
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:15
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/29/25 23:24
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/28/25 21:05
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018468	FAM	EET EDI	01/29/25 06:53
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 16:14
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 17:20
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 17:20
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 14:44
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:16
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:35

Client Sample ID: IB-04-CS-8
Date Collected: 01/24/25 09:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-04-CS-8
Date Collected: 01/24/25 09:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-16
Matrix: Solid
Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:17
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/29/25 23:47
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 04:54

Client Sample ID: IB-04-CS-8

Lab Sample ID: 460-319275-16

Date Collected: 01/24/25 09:50
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 17:42
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 17:54
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 18:53
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 18:53
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:10
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:38
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:37

Client Sample ID: IB-06-TS

Lab Sample ID: 460-319275-17

Date Collected: 01/24/25 10:20
Matrix: Solid
Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-06-TS

Lab Sample ID: 460-319275-17

Date Collected: 01/24/25 10:20
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:18
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 13:27
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/05/25 00:13
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 06:45
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 11:37
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 10:28
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 10:44
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:16
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:27

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: IB-06-TS
Date Collected: 01/24/25 10:20
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-17
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:08

Client Sample ID: IB-06-CS-4
Date Collected: 01/24/25 10:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-06-CS-4
Date Collected: 01/24/25 10:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-18
Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:19
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 13:50
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 16:45
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 06:57
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 11:53
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 10:44
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 11:00
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:18
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:29
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:08

Client Sample ID: IB-06-CS-8
Date Collected: 01/24/25 10:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-06-CS-8

Lab Sample ID: 460-319275-19

Date Collected: 01/24/25 10:40

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:19
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 14:13
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 16:22
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 08:11
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 12:10
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 11:00
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 11:15
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:21
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:30
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:13

Client Sample ID: Dup-05

Lab Sample ID: 460-319275-20

Date Collected: 01/24/25 12:05

Matrix: Solid

Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: Dup-05

Lab Sample ID: 460-319275-20

Date Collected: 01/24/25 12:05

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:20
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 14:36
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 17:07
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 08:23
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 12:26
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 11:15
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 11:31

Client Sample ID: Dup-05
Date Collected: 01/24/25 12:05
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-20
Matrix: Solid
Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:24
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:32
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:14

Client Sample ID: IB-02-TS
Date Collected: 01/24/25 10:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-02-TS
Date Collected: 01/24/25 10:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-21
Matrix: Solid
Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:21
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 00:10
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 02:17
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 17:55
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 18:11
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 19:09
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 19:09
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:12
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:39
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:38

Client Sample ID: IB-02-CS
Date Collected: 01/24/25 11:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49

Client Sample ID: IB-02-CS
Date Collected: 01/24/25 11:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-02-CS
Date Collected: 01/24/25 11:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-22
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:22
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 00:33
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 00:26
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 18:08
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 18:28
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 19:25
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 19:25
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:15
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:41
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:39

Client Sample ID: IB-03-TS
Date Collected: 01/24/25 11:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-03-TS
Date Collected: 01/24/25 11:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-23
Matrix: Solid
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:22
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 14:58
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 21:14
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 08:35

Client Sample ID: IB-03-TS

Lab Sample ID: 460-319275-23

Date Collected: 01/24/25 11:10

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 12:43
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 11:31
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 11:47
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:26
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:37
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:15

Client Sample ID: IB-03-CS

Lab Sample ID: 460-319275-24

Date Collected: 01/24/25 11:20

Matrix: Solid

Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: IB-03-CS

Lab Sample ID: 460-319275-24

Date Collected: 01/24/25 11:20

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:23
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 15:21
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 23:00
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 08:48
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 13:00
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 11:47
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 12:02
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:29
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:39
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:16

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2B-02-TS
Date Collected: 01/24/25 12:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2B-02-TS
Date Collected: 01/24/25 12:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-25
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:24
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 00:56
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 03:02
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 18:21
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 18:45
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 19:40
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 19:40
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:17
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:43
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:43

Client Sample ID: 2B-02-CS
Date Collected: 01/24/25 12:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2B-02-CS
Date Collected: 01/24/25 12:40
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-26
Matrix: Solid
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:24
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 01:19
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 00:48

Client Sample ID: 2B-02-CS

Lab Sample ID: 460-319275-26

Date Collected: 01/24/25 12:40

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 18:34
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 19:01
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 19:56
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 19:56
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:20
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:45
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:44

Client Sample ID: 2B-01-TS

Lab Sample ID: 460-319275-27

Date Collected: 01/24/25 12:50

Matrix: Solid

Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2B-01-TS

Lab Sample ID: 460-319275-27

Date Collected: 01/24/25 12:50

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:25
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 15:44
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/05/25 00:32
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 09:00
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 13:16
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 12:02
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 12:18
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:37
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:41

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2B-01-TS
Date Collected: 01/24/25 12:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-27
Matrix: Solid
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:16

Client Sample ID: 2B-01-CS
Date Collected: 01/24/25 13:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2B-01-CS
Date Collected: 01/24/25 13:00
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-28
Matrix: Solid
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:26
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 16:07
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 17:52
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 09:12
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 13:33
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 12:18
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 12:34
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:39
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:43
Total/NA	Prep	9012B			1024738	VBG	EET EDI	03/07/25 18:23
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:17

Client Sample ID: 2A-05-TS
Date Collected: 01/24/25 13:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2A-05-TS

Lab Sample ID: 460-319275-29

Date Collected: 01/24/25 13:50

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:27
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 01:42
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 01:55
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 18:47
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 19:18
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 20:11
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 20:11
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:35
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:46
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:45

Client Sample ID: 2A-05-CS-4

Lab Sample ID: 460-319275-30

Date Collected: 01/24/25 14:00

Matrix: Solid

Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2A-05-CS-4

Lab Sample ID: 460-319275-30

Date Collected: 01/24/25 14:00

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:27
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 02:06
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/28/25 21:27
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 19:00
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 19:35
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 20:27
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 20:27

Client Sample ID: 2A-05-CS-4

Lab Sample ID: 460-319275-30
Date Collected: 01/24/25 14:00
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:37
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:48
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:46

Client Sample ID: 2A-05-CS-8

Lab Sample ID: 460-319275-31
Date Collected: 01/24/25 14:10
Matrix: Solid
Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2A-05-CS-8

Lab Sample ID: 460-319275-31
Date Collected: 01/24/25 14:10
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:28
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 02:29
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/28/25 21:49
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 19:13
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 19:51
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 20:43
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 20:43
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:40
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:50
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:47

Client Sample ID: 2A-06-CS-4

Lab Sample ID: 460-319275-32
Date Collected: 01/24/25 14:20
Matrix: Solid
Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45

Client Sample ID: 2A-06-CS-4

Lab Sample ID: 460-319275-32

Date Collected: 01/24/25 14:20

Matrix: Solid

Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2A-06-CS-4

Lab Sample ID: 460-319275-32

Date Collected: 01/24/25 14:20

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:29
Total/NA	Analysis	8260D		1	1024342	AAT	EET EDI	03/06/25 16:30
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023993	MDJ	EET EDI	03/04/25 23:54
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 09:24
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 13:50
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 12:34
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 12:49
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:42
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:44
Total/NA	Prep	9012B			1024739	VBG	EET EDI	03/07/25 18:26
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:20

Client Sample ID: 2A-06-CS-8

Lab Sample ID: 460-319275-33

Date Collected: 01/24/25 14:30

Matrix: Solid

Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1024721	OXG	EET EDI	03/07/25 14:45
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2A-06-CS-8

Lab Sample ID: 460-319275-33

Date Collected: 01/24/25 14:30

Matrix: Solid

Date Received: 01/24/25 17:40

Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:29
Total/NA	Analysis	8260D		1	1024609	AAT	EET EDI	03/07/25 09:02
Total/NA	Prep	3546			1023976	DXD	EET EDI	03/04/25 08:46
Total/NA	Analysis	8270E		1	1023996	MDJ	EET EDI	03/04/25 18:15
Total/NA	Prep	3546			1024268	ARA	EET EDI	03/05/25 17:24
Total/NA	Analysis	8081B		1	1024330	FAM	EET EDI	03/06/25 09:37

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-06-CS-8

Date Collected: 01/24/25 14:30
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-33

Matrix: Solid
Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1024266	ARA	EET EDI	03/05/25 17:15
Total/NA	Analysis	8082A		1	1024360	FAM	EET EDI	03/06/25 14:06
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024670	OXG	EET EDI	03/07/25 12:49
Total/NA	Prep	3546			1024577	JMS	EET EDI	03/06/25 22:12
Total/NA	Analysis	NJDEP EPH		1	1024669	OXG	EET EDI	03/07/25 13:05
Total/NA	Prep	3050B			1024711	NNW	EET EDI	03/07/25 12:53
Total/NA	Analysis	6020B		1	1024867	CDC	EET EDI	03/08/25 12:44
Total/NA	Prep	7471B			1024585	TJS	EET EDI	03/07/25 01:02
Total/NA	Analysis	7471B		1	1024639	TJS	EET EDI	03/07/25 05:46
Total/NA	Prep	9012B			1024739	VBG	EET EDI	03/07/25 18:26
Total/NA	Analysis	9012B		1	1024960	VBG	EET EDI	03/09/25 16:26

Client Sample ID: 2A-07-TS

Date Collected: 01/24/25 14:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2A-07-TS

Date Collected: 01/24/25 14:50
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-34

Matrix: Solid
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:30
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 02:52
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 06:01
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 19:26
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 20:08
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 20:58
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 20:58
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:43
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:55
Total/NA	Prep	9012B			1018659	VBG	EET EDI	01/29/25 18:15
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:48

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-07-CS-4

Lab Sample ID: 460-319275-35

Date Collected: 01/24/25 15:00
Matrix: Solid
Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2A-07-CS-4

Lab Sample ID: 460-319275-35

Date Collected: 01/24/25 15:00
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:31
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 03:15
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/29/25 02:39
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 19:39
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 20:25
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 21:14
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 21:14
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:45
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:57
Total/NA	Prep	9012B			1018660	VBG	EET EDI	01/29/25 18:19
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:50

Client Sample ID: 2A-07-CS-8

Lab Sample ID: 460-319275-36

Date Collected: 01/24/25 15:10
Matrix: Solid
Date Received: 01/24/25 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018207	MVA	EET EDI	01/27/25 07:37

Client Sample ID: 2A-07-CS-8

Lab Sample ID: 460-319275-36

Date Collected: 01/24/25 15:10
Matrix: Solid
Date Received: 01/24/25 17:40
Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018092	YXG	EET EDI	01/25/25 11:32
Total/NA	Analysis	8260D		1	1018633	AAT	EET EDI	01/30/25 03:38
Total/NA	Prep	3546			1018392	OTS	EET EDI	01/28/25 10:34
Total/NA	Analysis	8270E		1	1018444	MME	EET EDI	01/28/25 22:12

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Client Sample ID: 2A-07-CS-8

Date Collected: 01/24/25 15:10
Date Received: 01/24/25 17:40

Lab Sample ID: 460-319275-36

Matrix: Solid
Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1018341	AXB	EET EDI	01/28/25 06:14
Total/NA	Analysis	8081B		1	1018406	FAM	EET EDI	01/28/25 19:52
Total/NA	Prep	3546			1018342	AXB	EET EDI	01/28/25 06:19
Total/NA	Analysis	8082A		1	1018409	AAA	EET EDI	01/28/25 20:42
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 21:30
Total/NA	Prep	3546			1018684	JMS	EET EDI	01/29/25 22:14
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 21:30
Total/NA	Prep	3050B			1018513	FBT	EET EDI	01/29/25 07:26
Total/NA	Analysis	6020B		1	1018820	JKF	EET EDI	01/30/25 15:48
Total/NA	Prep	7471B			1018461	TJS	EET EDI	01/29/25 00:52
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 04:59
Total/NA	Prep	9012B			1018660	VBG	EET EDI	01/29/25 18:19
Total/NA	Analysis	9012B		1	1018682	VBG	EET EDI	01/29/25 21:57

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319275-1
Project/Site: Manchester LF JR0312

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-03-26
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	03-31-25
Pennsylvania	NELAP	68-00522	02-27-26
Rhode Island	State	LAO00376	12-23-25
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
NJ DEP EPH	New Jersey - Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
NJDEP EPH	New Jersey Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency
NJDEP = New Jersey Department of Environmental Protection
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF JR0312

Job ID: 460-319275-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-319275-1	FB-20250124	Water	01/24/25 12:00	01/24/25 17:40
460-319275-2	Trip Blank	Water	01/24/25 15:10	01/24/25 17:40
460-319275-3	4-01-TS	Solid	01/23/25 15:30	01/24/25 17:40
460-319275-4	4-01-CS	Solid	01/23/25 15:40	01/24/25 17:40
460-319275-5	4-04-CS-4	Solid	01/23/25 16:00	01/24/25 17:40
460-319275-6	4-04-CS-8	Solid	01/23/25 16:10	01/24/25 17:40
460-319275-7	4-03-TS	Solid	01/23/25 16:20	01/24/25 17:40
460-319275-8	4-03-CS-4	Solid	01/23/25 16:30	01/24/25 17:40
460-319275-9	4-03-CS-8	Solid	01/23/25 16:40	01/24/25 17:40
460-319275-10	IB-01-TS	Solid	01/24/25 08:20	01/24/25 17:40
460-319275-11	IB-01-CS	Solid	01/24/25 08:30	01/24/25 17:40
460-319275-12	Dup-04	Solid	01/24/25 12:04	01/24/25 17:40
460-319275-13	IB-05-CS-4	Solid	01/24/25 09:00	01/24/25 17:40
460-319275-14	IB-05-CS-8	Solid	01/24/25 09:10	01/24/25 17:40
460-319275-15	IB-04-CS-4	Solid	01/24/25 09:40	01/24/25 17:40
460-319275-16	IB-04-CS-8	Solid	01/24/25 09:50	01/24/25 17:40
460-319275-17	IB-06-TS	Solid	01/24/25 10:20	01/24/25 17:40
460-319275-18	IB-06-CS-4	Solid	01/24/25 10:30	01/24/25 17:40
460-319275-19	IB-06-CS-8	Solid	01/24/25 10:40	01/24/25 17:40
460-319275-20	Dup-05	Solid	01/24/25 12:05	01/24/25 17:40
460-319275-21	IB-02-TS	Solid	01/24/25 10:50	01/24/25 17:40
460-319275-22	IB-02-CS	Solid	01/24/25 11:00	01/24/25 17:40
460-319275-23	IB-03-TS	Solid	01/24/25 11:10	01/24/25 17:40
460-319275-24	IB-03-CS	Solid	01/24/25 11:20	01/24/25 17:40
460-319275-25	2B-02-TS	Solid	01/24/25 12:30	01/24/25 17:40
460-319275-26	2B-02-CS	Solid	01/24/25 12:40	01/24/25 17:40
460-319275-27	2B-01-TS	Solid	01/24/25 12:50	01/24/25 17:40
460-319275-28	2B-01-CS	Solid	01/24/25 13:00	01/24/25 17:40
460-319275-29	2A-05-TS	Solid	01/24/25 13:50	01/24/25 17:40
460-319275-30	2A-05-CS-4	Solid	01/24/25 14:00	01/24/25 17:40
460-319275-31	2A-05-CS-8	Solid	01/24/25 14:10	01/24/25 17:40
460-319275-32	2A-06-CS-4	Solid	01/24/25 14:20	01/24/25 17:40
460-319275-33	2A-06-CS-8	Solid	01/24/25 14:30	01/24/25 17:40
460-319275-34	2A-07-TS	Solid	01/24/25 14:50	01/24/25 17:40
460-319275-35	2A-07-CS-4	Solid	01/24/25 15:00	01/24/25 17:40
460-319275-36	2A-07-CS-8	Solid	01/24/25 15:10	01/24/25 17:40

Chain of Custoc

460-319275 Chain of Custody

urofins | Envi

Address 777 New Durham Rd
Edison, NJ 08817
732-549-3900

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ O

Client Contact	Project Manager: Mike Nolden	Site Contact: Ed Horai	Date: 1/24/25	COC No.
Company Name Geosyntec Consultants	Tel/Email: MNolden@geosyntec.com	Lab Contact:	Carrier:	1 of 3 COCs
Address 1750 American Blvd Ste 200	Analysis Turnaround Time			Sampler EH
City/State/Zip Pennington, NJ 08534	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone 201-438-9412	TAT if different from Below 5			Walk-in Client.
Fax	☐ 2 weeks			Lab Sampling
Project Name Manchester LE	☐ 1 week			Job / SDG No 319275
Site Manchester LE	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260D TCL VOA+10	NJTEPH Frac, 8081B	8082A, 6020B, W/Hg	7471B, 9012B, 8270E	9060D SPLP	8270E SPLP	8081B SPLP, 6020B SPLP	7470A SPLP, 9012B SPLP	8260D TCL VOA+10	NJTEPH No Frac	8270E TCL BNA+20	8081B, 8082A	6020B, TAL Metals/Hg	7470A, 9012B total	Sample Specific Notes
FB-20250124	1/24/25	1200	G	W	14											X	X	X	X	X	X	1
Trip Blank	1/20/25	-	G	W	2											X						2
4-01-TS	1/23/25	1530	G	S	9			H	H	H	H	H	H	H	H							3
4-01-CS	1/23/25	1540	G	S	9			H	H	H	H	H	H	H	H							4
4-04-CS-4	1/23/25	1600	G	S	9			X	X	X	X	H	H	H	H							5
4-04-CS-8	1/23/25	1610	G	S	9			X	X	X	X	H	H	H	H							6
4-03-TS	1/23/25	1620	G	S	9			H	H	H	H	H	H	H	H							7
4-03-CS-4	1/23/25	1630	G	S	9			H	H	H	H	H	H	H	H							8
4-03-CS-8	1/23/25	1640	G	S	9			H	H	H	H	H	H	H	H							9
1B-01-TS	1/24/25	0820	G	S	9			X	X	X	X	H	H	H	H							10
1B-01-CS	1/24/25	0830	G	S	9			X	X	X	X	H	H	H	H							11
DUP-04	1/24/25	1204	G	S	9			X	X	X	X	H	H	H	H							12
Preservation Used. 1= Ice, 2= HCl, 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1	1	1	1	1	1	1	1	2	2	1	1	4	4/5	

Possible Hazard Identification.
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments:
Refer to Lab # 460 45604 for analyses
*Hold all SPLP
*extract as needed
X = run sample
H = Hold sample
4 coolers

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ____ Corr'd ____ | Therm ID No.: ____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
E.H.A	Geosyntec	1/24/25 1530			1/24/25 1535
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	ECT	17:40		FEDEX	1/24/25 1740
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

4/1/2025

IR 0.2 | 0.4 | 0.2 | 0.4 | 1.2 | 2.4 | 2.2 | 2.4

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Chain of Custody Record 762498

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TAL-8210

Address 777 New Durham Rd
Edison, NJ 08817
732-549-3900

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Mike Nolden	Site Contact: Ed Horn	Date: 1/24/25	COC No:
Company Name: Geosyntec Consultants	Tel/Email: MNolden@geosyntec.com	Lab Contact:	Carrier:	2 of 3 COCs
Address: 1750 American Blvd ste. 200	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS			Sampler: EH
City/State/Zip: Pennington, NJ 08534	TAT if different from Below: 5			For Lab Use Only:
Phone: 201-438-5412	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Walk-in Client:
Fax:				Lab Sampling:
Project Name: Manchester LF				Job / SDG No: 319775
Site: Manchester LF				
PO #:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260D TCL VOA +10	NJEPH frac, 8081B	8081A, 6010B w/Hg	7471B, 6010B, 8270E	8260D SPLP TCL VOA	8270E SPLP SVOCs	8081B SPLP, 6010B SPLP	7470A SPLP, 9012B SPLP	Sample Specific Notes
1B-05-CS-4	1/24/25	0900	G	S	27		Y	H	H	H	H	H	H	H	H	MS/MSD 13
1B-05-CS-8	1/24/25	0910	G	S	9			H	H	H	H	H	H	H	H	14
1B-04-CS-4	1/24/25	0940	G	S	27		Y	X	X	X	X	H	H	H	H	MS/MSD 15
1B-04-CS-8	1/24/25	0950	G	S	9			X	X	X	X	H	H	H	H	16
1B-06-TS	1/24/25	1020	G	S	9			H	H	H	H	H	H	H	H	17
1B-06-CS-4	1/24/25	1030	G	S	9			H	H	H	H	H	H	H	H	18
1B-06-CS-8	1/24/25	1040	G	S	9			H	H	H	H	H	H	H	H	19
DUP-05	1/24/25	1205	G	S	9			H	H	H	H	H	H	H	H	20
1B-02-TS	1/24/25	1050	G	S	9			X	X	X	X	H	H	H	H	21
1B-02-CS	1/24/25	1100	G	S	9			X	X	X	X	H	H	H	H	22
1B-03-TS	1/24/25	1110	G	S	9			H	H	H	H	H	H	H	H	23
1B-03-CS	1/24/25	1120	G	S	9			H	H	H	H	H	H	H	H	24

Preservation Used 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments:
*Refer to Lab # 46045604 for analyses
*Hold all SPLP extract as needed
X = Run Sample
H = Hold Sample
4 Coolers

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by: Ed H	Geosyntec	1/24/25 1530			
Relinquished by:	Company:	Date/Time: 1/24/25 1740	Received by:	Company: TEKSAI	Date/Time: 1/24/25 17:40
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

4/1/2025

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NDDS

Chain of Custody Record 762496

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TAL-8210

Address 777 New Durham Rd
Edison NJ 08817
732-549-3900

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Mike Nolden	Site Contact: Ed Horai	Date: 1/24/25	COC No: 3 of 3 COCs
Company Name: Geosyntec Consultants	Tel/Email: MNolden@geosyntec.com	Lab Contact:	Carrier:	Sampler: EH
Address: 1750 American Blvd ste. 200	Analysis Turnaround Time: ☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only: Walk-in Client:
City/State/Zip: Pennington NJ 08534	TAT if different from Below: 5			Lab Sampling
Phone: 201-438-5412	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Job / SDG No: 319275
Fax				
Project Name: Manchester LF				
Site: Manchester LF				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260D TCL VOA +10	NJ EPH Frac, 3510B	8082A, 6020B w/Hg	7471B, 6010B, 8270E	8260D SPLP TCL VOA	8270E SPLP SVOCs	8081B SPLP, 6020B SPLP	7470A SPLP, 6010B SPLP	Sample Specific Notes.
2B-02-TS	1/24/25	1230	G	S	9			X	X	X	X	H	H	H	H	25
2B-02-CS	1/24/25	1240	G	S	9			X	X	X	X	H	H	H	H	26
2B-01-TS	1/24/25	1250	G	S	9			H	H	H	H	H	H	H	H	27
2B-01-CS	1/24/25	1300	G	S	9			H	H	H	H	H	H	H	H	28
2A-05-TS	1/24/25	1350	G	S	9			X	X	X	X	H	H	H	H	29
2A-05-CS-4	1/24/25	1400	G	S	9			X	X	X	X	H	H	H	H	30
2A-05-CS-8	1/24/25	1410	G	S	9			X	X	X	X	H	H	H	H	31
2A-06-CS-4	1/24/25	1420	G	S	9			H	H	H	H	H	H	H	H	32
2A-06-CS-8	1/24/25	1430	G	S	9			H	H	H	H	H	H	H	H	33
2A-07-TS	1/24/25	1450	G	S	9			X	X	X	X	H	H	H	H	34
2A-07-CS-4	1/24/25	1500	G	S	9			X	X	X	X	H	H	H	H	35
2A-07-CS-8	1/24/25	1510	G	S	9			X	X	X	X	H	H	H	H	36

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments:
* Refer to Lab # 46045604 for analyses
* Hold all SPLP + extract as needed
X = Run Sample
H = Hold Sample
4 coolers

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd. _____ Therm ID No. _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by: Ed-H	Geosyntec	1/24/25 1550			1/24/25 1555
Relinquished by:	ET	1/24/25 1740	Received by:		1/24/25 1740
Relinquished by:	Company	Date/Time	Received in Laboratory by	Company	Date/Time

VOCs

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 319275

Number of Coolers: 4 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	0.2 °C	0.4 °C	Cooler #4:	2.2 °C	2.4 °C	Cooler #7:	°C	°C
Cooler #2:	0.7 °C	0.4 °C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	2.7 °C	2.4 °C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2			<2					>12			

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: AMT Date: 11/24/25

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 460-319275-1

Login Number: 319275
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Nolden
Geosyntec Consultants Inc
289 Great Road (Rte 2A)
Suite 202
Acton, Massachusetts 01720

Generated 4/1/2025 12:20:27 PM

JOB DESCRIPTION

Manchester LF

JOB NUMBER

460-319357-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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4/1/2025 12:20:27 PM

Authorized for release by
Jannel Franklin, Manager of Project Management Assistants
Jannel.Franklin@et.eurofinsus.com
(732)593-2551

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
A	The tentatively identified compound is a suspected aldol-condensation product.
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
460-319357-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/27/2025 1:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.4°C and 1.8°C.

Receipt Exceptions
Per laboratory policy, the trip blank date/time was changed to reflect the latest date/time in the sampling event.

The following samples were activated for contingent holds by the client on 2/7/25: Trip Blank (460-319357-1), 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13).

March 21st, 2025 - Remaining samples on hold cancelled by the client.

Method 8260D - Volatile Organic Compounds by GC/MS
Samples Trip Blank (460-319357-1), 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for Volatile Organic Compounds by GC/MS. The samples were prepared on 1/27/2025 and 1/29/2025 and analyzed on 1/29/2025, 1/30/2025, 2/8/2025 and 2/10/2025.

The continuing calibration verification (CCV) analyzed in batch 460-1018493 was outside the method criteria for the following analytes: Acrolein, Acrylonitrile, Chloromethane and Methyl acetate (biased high) and Dichlorodifluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-1018493 recovered outside control limits for the following analytes: Acrolein. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1018701 was outside the method criteria for the following analytes: Chlorobromomethane (biased high) and Trichlorofluoromethane (biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Internal standard (ISTD) response for 1,4-Dioxane-d8 for the following sample was outside of acceptance limits: 2A-02-TS (460-319357-12). The corresponding target analyte 1,4-Dioxane was not detected. Re-analysis was not performed.

Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 2A-02-CS (460-319357-13). These results have been reported and qualified.

The laboratory control sample (LCS) for analytical batch 460-1018701 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, 1,1,1-Trichloroethane, 2-Hexanone, 1,4-Dioxane and 4-Methyl-2-pentanone (MIBK). These

analytes were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for analytical batch 460-1020337 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 460-1020337 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method 8270E - Semivolatile Organic Compounds (GC/MS)
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for Semivolatile Organic Compounds (GC/MS). The samples were prepared on 1/29/2025 and 2/7/2025 and analyzed on 1/29/2025 and 2/8/2025.

The continuing calibration verification (CCV) analyzed in batch 460-1018599 was outside the method criteria for the following analyte(s): Benzaldehyde. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 460-1018599 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-1018556 and analytical batch 460-1018599 recovered outside control limits for the following analytes: Hexachlorocyclopentadiene. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-1020312 was outside the method criteria for the following analyte(s): Benzaldehyde and Caprolactam. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for New Jersey - Extractable Petroleum Hydrocarbons. The samples were analyzed on 1/30/2025 and 2/9/2025.

Method NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for New Jersey Extractable Petroleum Hydrocarbons. The samples were prepared on 1/30/2025, 2/7/2025 and 2/10/2025 and analyzed on 1/30/2025, 1/31/2025, 2/8/2025 and 2/10/2025.

Method 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography. The samples were prepared on 1/30/2025 and 2/7/2025 and analyzed on 1/30/2025 and 2/8/2025.

The laboratory control sample (LCS) for preparation batch 460-1018768 and analytical batch 460-1018810 recovered outside control limits for the following analytes Aroclor 1260 on the primary column. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-1018768 and analytical batch 460-1018810 recovered outside control limits for the following analytes Aroclor 1016 and Aroclor

1260.

Method 8081B - Organochlorine Pesticides (GC)
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for Organochlorine Pesticides (GC). The samples were prepared on 1/30/2025 and 2/7/2025 and analyzed on 1/30/2025, 1/31/2025 and 2/8/2025.

The continuing calibration verification (CCV) associated with batch 460-1018895 recovered above the upper control limit for Methoxychlor on the secondary column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 460-1018895/3).

Method 6020B - Metals (ICP/MS)
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for Metals (ICP/MS). The samples were prepared on 1/30/2025 and 2/8/2025 and analyzed on 1/31/2025 and 2/10/2025.

Method 7470A - Mercury (CVAA) - SPLP East
Sample 2A-01-TS (460-319357-10) was analyzed for Mercury (CVAA) - SPLP East. The sample was leached on 2/9/2025 and prepared and analyzed on 2/11/2025.

Method 7471B - Mercury (CVAA)
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for Mercury (CVAA). The samples were prepared and analyzed on 1/29/2025 and 2/10/2025.

Method 9012B - Cyanide, Total andor Amenable
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for Cyanide, Total andor Amenable. The samples were prepared and analyzed on 1/31/2025 and 2/9/2025.

Method Moisture - Percent Moisture
Samples 2A-04-CS-4 (460-319357-2), 2A-04-CS-8 (460-319357-3), 2A-03-CS-4 (460-319357-4), 2A-03-CS-8 (460-319357-5), 2A-08-CS-4 (460-319357-6), 2A-08-CS-8 (460-319357-7), 2A-09-CS-4 (460-319357-8), 2A-09-CS-8 (460-319357-9), 2A-01-TS (460-319357-10), 2A-01-CS (460-319357-11), 2A-02-TS (460-319357-12) and 2A-02-CS (460-319357-13) were analyzed for Percent Moisture. The samples were analyzed on 1/27/2025 and 2/10/2025.

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: Trip Blank — Lab Sample ID: 460-319357-1

No Detections.

Client Sample ID: 2A-04-CS-4 — Lab Sample ID: 460-319357-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4730		19.2	5.3	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.3		0.96	0.099	mg/Kg	1	☼	6020B	Total/NA
Barium	4.4		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.0		1.9	0.87	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.37	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	2.4		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	3910		57.6	19.4	mg/Kg	1	☼	6020B	Total/NA
Lead	3.0		0.58	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	106		96.0	9.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	6.9		3.8	0.39	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.5	J	1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	110		96.0	15.6	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.6		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-04-CS-8 — Lab Sample ID: 460-319357-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.14		0.0062	0.0059	mg/Kg	1	☼	8260D	Total/NA
Aluminum	2180		19.0	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.63	J	0.95	0.098	mg/Kg	1	☼	6020B	Total/NA
Barium	1.9		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	2.7		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.21	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	1.5	J	1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	1850		56.9	19.2	mg/Kg	1	☼	6020B	Total/NA
Lead	1.4		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	33.5	J	94.9	9.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	3.9		3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.68	J	1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	55.4	J	94.9	15.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.3		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-03-CS-4 — Lab Sample ID: 460-319357-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.0034		0.0010	0.00044	mg/Kg	1	☼	8260D	Total/NA
Aluminum	4300		18.8	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.2		0.94	0.097	mg/Kg	1	☼	6020B	Total/NA
Barium	3.8		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	5.8		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.47	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	2.4		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	3920		56.5	19.0	mg/Kg	1	☼	6020B	Total/NA
Lead	3.0		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	124		94.2	9.6	mg/Kg	1	☼	6020B	Total/NA
Manganese	13.0		3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.7	J	1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	121		94.2	15.3	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.14	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Edison

Client Sample ID: 2A-03-CS-4 (Continued) — Lab Sample ID: 460-319357-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	6.8		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	2.9	J	7.5	2.9	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-03-CS-8 — Lab Sample ID: 460-319357-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	5760		18.6	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.8		0.93	0.096	mg/Kg	1	☼	6020B	Total/NA
Barium	3.7		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.073	J	0.37	0.053	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.7		1.9	0.85	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.39	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	3.4		1.9	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	8310		55.9	18.8	mg/Kg	1	☼	6020B	Total/NA
Lead	2.0		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	61.4	J	93.2	9.5	mg/Kg	1	☼	6020B	Total/NA
Manganese	5.2		3.7	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.8	J	1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	112		93.2	15.1	mg/Kg	1	☼	6020B	Total/NA
Vanadium	9.0		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	3.4	J	7.5	2.8	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.033		0.015	0.0073	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2A-08-CS-4 — Lab Sample ID: 460-319357-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.012		0.0068	0.0065	mg/Kg	1	☼	8260D	Total/NA
Aluminum	6420		19.1	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.7		0.96	0.098	mg/Kg	1	☼	6020B	Total/NA
Barium	4.8		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.065	J	0.38	0.054	mg/Kg	1	☼	6020B	Total/NA
Chromium	8.0		1.9	0.87	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.50	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	3.3		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	5700		57.4	19.3	mg/Kg	1	☼	6020B	Total/NA
Lead	3.3		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	121		95.6	9.8	mg/Kg	1	☼	6020B	Total/NA
Manganese	11.1		3.8	0.39	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.9		1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	143		95.6	15.5	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.14	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Vanadium	10.6		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA
Zinc	3.0	J	7.6	2.9	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-08-CS-8 — Lab Sample ID: 460-319357-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.014		0.0067	0.0064	mg/Kg	1	☼	8260D	Total/NA
Aluminum	2480		19.0	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.65	J	0.95	0.098	mg/Kg	1	☼	6020B	Total/NA
Barium	2.1		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Chromium	3.3		1.9	0.86	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2A-08-CS-8 (Continued) — Lab Sample ID: 460-319357-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.24	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	1.6	J	1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	2010		57.0	19.2	mg/Kg	1	☼	6020B	Total/NA
Lead	1.4		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	44.3	J	95.1	9.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.6		3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.77	J	1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	70.1	J	95.1	15.4	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.9		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.013	J	0.017	0.0078	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2A-09-CS-4 — Lab Sample ID: 460-319357-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3240		17.9	4.9	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.82	J	0.90	0.092	mg/Kg	1	☼	6020B	Total/NA
Barium	2.6		1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Chromium	4.3		1.8	0.81	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.23	J	1.8	0.13	mg/Kg	1	☼	6020B	Total/NA
Copper	1.7	J	1.8	0.33	mg/Kg	1	☼	6020B	Total/NA
Iron	2900		53.8	18.1	mg/Kg	1	☼	6020B	Total/NA
Lead	2.0		0.54	0.18	mg/Kg	1	☼	6020B	Total/NA
Magnesium	70.7	J	89.7	9.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.4		3.6	0.36	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.0	J	1.8	0.42	mg/Kg	1	☼	6020B	Total/NA
Potassium	75.3	J	89.7	14.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	5.5		1.8	0.18	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-09-CS-8 — Lab Sample ID: 460-319357-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4540		19.1	5.2	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.96		0.96	0.098	mg/Kg	1	☼	6020B	Total/NA
Barium	3.3		1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	42.9	J	95.5	38.9	mg/Kg	1	☼	6020B	Total/NA
Chromium	6.2		1.9	0.87	mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.28	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	2.3		1.9	0.35	mg/Kg	1	☼	6020B	Total/NA
Iron	3720		57.3	19.3	mg/Kg	1	☼	6020B	Total/NA
Lead	2.4		0.57	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	93.6	J	95.5	9.7	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.5		3.8	0.38	mg/Kg	1	☼	6020B	Total/NA
Nickel	1.3	J	1.9	0.45	mg/Kg	1	☼	6020B	Total/NA
Potassium	89.6	J	95.5	15.5	mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.1		1.9	0.20	mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: 2A-01-TS — Lab Sample ID: 460-319357-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0050	J	0.013	0.00095	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.19		0.015	0.015	mg/Kg	1	☼	8260D	Total/NA
Aluminum	881		31.8	8.7	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2A-01-TS (Continued) — Lab Sample ID: 460-319357-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.31	J	1.6	0.23	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.57	J	1.6	0.16	mg/Kg	1	☼	6020B	Total/NA
Barium	8.2		3.2	0.23	mg/Kg	1	☼	6020B	Total/NA
Calcium	1080		159	64.7	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.8	J	3.2	1.4	mg/Kg	1	☼	6020B	Total/NA
Copper	4.7		3.2	0.58	mg/Kg	1	☼	6020B	Total/NA
Iron	998		95.3	32.1	mg/Kg	1	☼	6020B	Total/NA
Lead	14.9		0.95	0.32	mg/Kg	1	☼	6020B	Total/NA
Magnesium	271		159	16.2	mg/Kg	1	☼	6020B	Total/NA
Manganese	8.2		6.4	0.64	mg/Kg	1	☼	6020B	Total/NA
Nickel	2.0	J	3.2	0.75	mg/Kg	1	☼	6020B	Total/NA
Potassium	188		159	25.7	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.27	J	2.0	0.20	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.2		3.2	0.33	mg/Kg	1	☼	6020B	Total/NA
Zinc	15.9		12.7	4.8	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.14		0.029	0.013	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.27	J	0.40	0.22	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: 2A-01-CS — Lab Sample ID: 460-319357-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.039		0.0065	0.0062	mg/Kg	1	☼	8260D	Total/NA
Aluminum	11600		20.2	5.6	mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.7		1.0	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	9.7		2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.10	J	0.40	0.058	mg/Kg	1	☼	6020B	Total/NA
Chromium	14.0		2.0	0.92	mg/Kg	1	☼	6020B	Total/NA
Cobalt	1.2	J	2.0	0.15	mg/Kg	1	☼	6020B	Total/NA
Copper	6.3		2.0	0.37	mg/Kg	1	☼	6020B	Total/NA
Iron	8390		60.7	20.4	mg/Kg	1	☼	6020B	Total/NA
Lead	5.9		0.61	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	144		101	10.3	mg/Kg	1	☼	6020B	Total/NA
Manganese	16.6		4.0	0.41	mg/Kg	1	☼	6020B	Total/NA
Nickel	2.9		2.0	0.48	mg/Kg	1	☼	6020B	Total/NA
Potassium	201		101	16.4	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.15	J	1.3	0.13	mg/Kg	1	☼	6020B	Total/NA
Thallium	0.054	J	0.40	0.041	mg/Kg	1	☼	6020B	Total/NA
Vanadium	16.7		2.0	0.21	mg/Kg	1	☼	6020B	Total/NA
Zinc	3.5	J	8.1	3.1	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.090		0.018	0.0086	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2A-02-TS — Lab Sample ID: 460-319357-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.020		0.0088	0.0084	mg/Kg	1	☼	8260D	Total/NA
Benzo[a]pyrene	0.012	J	0.034	0.0092	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.022	J	0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.024	J	0.34	0.0086	mg/Kg	1	☼	8270E	Total/NA
Total Aromatics	4.4		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
Total EPH	4.4		2.0	0.010	mg/Kg	1		NJ DEP EPH	Total/NA
C10-C12 Aromatics	4.4		2.1	2.1	mg/Kg	1	☼	NJDEP EPH	Total/NA
Aluminum	388		19.8	5.4	mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2A-02-TS (Continued)

Lab Sample ID: 460-319357-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.19	J	0.99	0.14	mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.53	J	0.99	0.10	mg/Kg	1	☼	6020B	Total/NA
Barium	3.1		2.0	0.14	mg/Kg	1	☼	6020B	Total/NA
Calcium	100		98.8	40.2	mg/Kg	1	☼	6020B	Total/NA
Chromium	1.3	J	2.0	0.90	mg/Kg	1	☼	6020B	Total/NA
Copper	2.5		2.0	0.36	mg/Kg	1	☼	6020B	Total/NA
Iron	671		59.3	19.9	mg/Kg	1	☼	6020B	Total/NA
Lead	19.6		0.59	0.20	mg/Kg	1	☼	6020B	Total/NA
Magnesium	36.0	J	98.8	10.1	mg/Kg	1	☼	6020B	Total/NA
Manganese	4.9		4.0	0.40	mg/Kg	1	☼	6020B	Total/NA
Nickel	0.66	J	2.0	0.46	mg/Kg	1	☼	6020B	Total/NA
Potassium	53.1	J	98.8	16.0	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.14	J	1.2	0.13	mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.6		2.0	0.20	mg/Kg	1	☼	6020B	Total/NA
Zinc	5.0	J	7.9	3.0	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.029		0.016	0.0076	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2A-02-CS

Lab Sample ID: 460-319357-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7420		18.5	5.1	mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.5		0.93	0.095	mg/Kg	1	☼	6020B	Total/NA
Barium	6.9		1.9	0.13	mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.068	J	0.37	0.053	mg/Kg	1	☼	6020B	Total/NA
Chromium	8.2		1.9	0.84	mg/Kg	1	☼	6020B	Total/NA
Cobalt	1.3	J	1.9	0.14	mg/Kg	1	☼	6020B	Total/NA
Copper	4.3		1.9	0.34	mg/Kg	1	☼	6020B	Total/NA
Iron	5520		55.6	18.7	mg/Kg	1	☼	6020B	Total/NA
Lead	4.0		0.56	0.19	mg/Kg	1	☼	6020B	Total/NA
Magnesium	173		92.6	9.4	mg/Kg	1	☼	6020B	Total/NA
Manganese	27.4		3.7	0.37	mg/Kg	1	☼	6020B	Total/NA
Nickel	3.0		1.9	0.44	mg/Kg	1	☼	6020B	Total/NA
Potassium	172		92.6	15.0	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.17	J	1.2	0.12	mg/Kg	1	☼	6020B	Total/NA
Vanadium	10.2		1.9	0.19	mg/Kg	1	☼	6020B	Total/NA
Zinc	4.6	J	7.4	2.8	mg/Kg	1	☼	6020B	Total/NA
Mercury	0.011	J	0.016	0.0077	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: Trip Blank

Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/29/25 13:56	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/29/25 13:56	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/29/25 13:56	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/29/25 13:56	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/29/25 13:56	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/29/25 13:56	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/29/25 13:56	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/29/25 13:56	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/29/25 13:56	1
1,4-Dioxane	28	U	50	28	ug/L			01/29/25 13:56	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/29/25 13:56	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/29/25 13:56	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/29/25 13:56	1
Acetone	4.4	U	5.0	4.4	ug/L			01/29/25 13:56	1
Acrolein	2.4	U *+	4.0	2.4	ug/L			01/29/25 13:56	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/29/25 13:56	1
Benzene	0.20	U	1.0	0.20	ug/L			01/29/25 13:56	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/29/25 13:56	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/29/25 13:56	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/29/25 13:56	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/29/25 13:56	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/29/25 13:56	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/29/25 13:56	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/29/25 13:56	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/29/25 13:56	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/29/25 13:56	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/29/25 13:56	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/29/25 13:56	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/29/25 13:56	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/29/25 13:56	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/29/25 13:56	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/29/25 13:56	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/29/25 13:56	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/29/25 13:56	1
Styrene	0.42	U	1.0	0.42	ug/L			01/29/25 13:56	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/29/25 13:56	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/29/25 13:56	1
Toluene	0.38	U	1.0	0.38	ug/L			01/29/25 13:56	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/29/25 13:56	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/29/25 13:56	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/29/25 13:56	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/29/25 13:56	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/29/25 13:56	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/29/25 13:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/29/25 13:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 128*		*01/29/25 13:56*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 460-319357-1

Date Collected: 01/27/25 11:40

Matrix: Water

Date Received: 01/27/25 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*110*		*76 - 120*		*01/29/25 13:56*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 132*		*01/29/25 13:56*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/29/25 13:56*	*1*

Client Sample ID: 2A-04-CS-4

Lab Sample ID: 460-319357-2

Date Collected: 01/27/25 08:50

Matrix: Solid

Date Received: 01/27/25 13:50

Percent Solids: 94.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00098	0.00021	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,1,2-Trichloroethane	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,1-Dichloroethane	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,1-Dichloroethene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,2,3-Trichlorobenzene	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,2,4-Trichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,2-Dibromo-3-Chloropropane	0.00045	U	0.00098	0.00045	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,2-Dibromoethane	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,2-Dichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,2-Dichloroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,2-Dichloropropane	0.00041	U	0.00098	0.00041	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,3-Dichlorobenzene	0.00036	U	0.00098	0.00036	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
1,4-Dichlorobenzene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
2-Butanone (MEK)	0.00036	U	0.0049	0.00036	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
2-Hexanone	0.0017	U	0.0049	0.0017	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
4-Methyl-2-pentanone (MIBK)	0.0015	U	0.0049	0.0015	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Acetone	0.0056	U	0.0059	0.0056	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Benzene	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Bromodichloromethane	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Bromoform	0.00042	U	0.00098	0.00042	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Bromomethane	0.00098	U *+	0.0020	0.00098	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Carbon disulfide	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Carbon tetrachloride	0.00038	U	0.00098	0.00038	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Chlorobenzene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Chlorobromomethane	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Chloroethane	0.00051	U	0.00098	0.00051	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Chloroform	0.00095	U	0.00098	0.00095	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Chloromethane	0.00043	U	0.00098	0.00043	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
cis-1,2-Dichloroethene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
cis-1,3-Dichloropropene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Cyclohexane	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Dibromochloromethane	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Dichlorodifluoromethane	0.00033	U	0.00098	0.00033	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Ethylbenzene	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Isopropylbenzene	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Methyl acetate	0.0042	U	0.0049	0.0042	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Methyl tert-butyl ether	0.00050	U	0.00098	0.00050	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1

Client Sample ID: 2A-04-CS-4
Date Collected: 01/27/25 08:50
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-2
Matrix: Solid
Percent Solids: 94.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	0.00049	U	0.00098	0.00049	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
m-Xylene & p-Xylene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
o-Xylene	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Styrene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Tetrachloroethene	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Toluene	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
trans-1,2-Dichloroethene	0.00024	U	0.00098	0.00024	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
trans-1,3-Dichloropropene	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Trichloroethene	0.00031	U	0.00098	0.00031	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Trichlorofluoromethane	0.00040	U	0.00098	0.00040	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1
Vinyl chloride	0.00054	U	0.00098	0.00054	mg/Kg	☼	01/27/25 18:20	02/10/25 08:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/27/25 18:20*	*02/10/25 08:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*65 - 138*	*01/27/25 18:20*	*02/10/25 08:16*	*1*
4-Bromofluorobenzene	*128*		*71 - 128*	*01/27/25 18:20*	*02/10/25 08:16*	*1*
Dibromofluoromethane (Surr)	*120*		*50 - 150*	*01/27/25 18:20*	*02/10/25 08:16*	*1*
Toluene-d8 (Surr)	*116*		*71 - 126*	*01/27/25 18:20*	*02/10/25 08:16*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
1,2,4-Trichlorobenzene	0.0090	U	0.035	0.0090	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
1,2-Dichlorobenzene	0.0060	U	0.35	0.0060	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
1,2-Diphenylhydrazine	0.014	U	0.35	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
1,3-Dichlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
1,4-Dichlorobenzene	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2,4,5-Trichlorophenol	0.036	U	0.35	0.036	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2,4-Dimethylphenol	0.042	U	0.35	0.042	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2,4-Dinitrotoluene	0.038	U	0.071	0.038	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2,6-Dinitrotoluene	0.025	U	0.071	0.025	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2-Methylnaphthalene	0.0098	U	0.35	0.0098	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2-Nitroaniline	0.027	U	0.35	0.027	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
3,3'-Dichlorobenzidine	0.053	U	0.14	0.053	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
3-Nitroaniline	0.083	U	0.35	0.083	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
4-Chloro-3-methylphenol	0.020	U	0.35	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1

Client Sample ID: 2A-04-CS-4
Date Collected: 01/27/25 08:50
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-2
Matrix: Solid
Percent Solids: 94.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
4-Nitrophenol	0.057	U	0.71	0.057	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Acenaphthene	0.0099	U	0.35	0.0099	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Acenaphthylene	0.010	U	0.35	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Anthracene	0.011	U	0.35	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Atrazine	0.021	U	0.14	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Benzaldehyde	0.058	U	0.35	0.058	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Benzidine	0.073	U	0.35	0.073	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Benzo[a]anthracene	0.026	U	0.035	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Benzo[a]pyrene	0.0093	U	0.035	0.0093	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Benzo[b]fluoranthene	0.0090	U	0.035	0.0090	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Benzo[g,h,i]perylene	0.010	U	0.35	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Benzo[k]fluoranthene	0.0068	U	0.035	0.0068	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
bis (2-chloroisopropyl) ether	0.021	U	0.35	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.35	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Caprolactam	0.054	U	0.35	0.054	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Carbazole	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Chrysene	0.015	U	0.35	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Dibenz(a,h)anthracene	0.015	U	0.035	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Dibenzofuran	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Fluoranthene	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Fluorene	0.010	U	0.35	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Hexachlorobutadiene	0.0074	U	0.071	0.0074	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Hexachlorocyclopentadiene	0.031	U	0.35	0.031	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Indeno[1,2,3-cd]pyrene	0.014	U	0.035	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Naphthalene	0.0060	U	0.35	0.0060	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
N-Nitrosodimethylamine	0.032	U	0.35	0.032	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Pentachlorophenol	0.072	U	0.28	0.072	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Phenanthrene	0.014	U	0.35	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1
Pyrene	0.0087	U	0.35	0.0087	mg/Kg	☼	02/07/25 19:33	02/08/25 16:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/07/25 19:33*	*02/08/25 16:07*	*1*

Client Sample ID: 2A-04-CS-4
Date Collected: 01/27/25 08:50
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-2
Matrix: Solid
Percent Solids: 94.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*24 - 137*	*02/07/25 19:33*	*02/08/25 16:07*	*1*
2-Fluorobiphenyl	*69*		*38 - 128*	*02/07/25 19:33*	*02/08/25 16:07*	*1*
2-Fluorophenol (Surr)	*68*		*31 - 133*	*02/07/25 19:33*	*02/08/25 16:07*	*1*
Nitrobenzene-d5 (Surr)	*67*		*31 - 120*	*02/07/25 19:33*	*02/08/25 16:07*	*1*
Phenol-d5 (Surr)	*67*		*35 - 132*	*02/07/25 19:33*	*02/08/25 16:07*	*1*
Terphenyl-d14 (Surr)	*71*		*44 - 147*	*02/07/25 19:33*	*02/08/25 16:07*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0071	0.0012	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
4,4'-DDE	0.00083	U	0.0071	0.00083	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
4,4'-DDT	0.0013	U	0.0071	0.0013	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Aldrin	0.0011	U	0.0071	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
alpha-BHC	0.00072	U	0.0021	0.00072	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
beta-BHC	0.00079	U	0.0021	0.00079	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Dieldrin	0.00092	U	0.0021	0.00092	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Endosulfan I	0.0011	U	0.0071	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Endosulfan II	0.0018	U	0.0071	0.0018	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Endosulfan sulfate	0.00089	U	0.0071	0.00089	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Endrin	0.0010	U	0.0071	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Endrin aldehyde	0.0017	U	0.0071	0.0017	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Endrin ketone	0.0014	U	0.0071	0.0014	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Heptachlor	0.00083	U	0.0071	0.00083	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Heptachlor epoxide	0.0011	U	0.0071	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Methoxychlor	0.0016	U	0.0071	0.0016	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Toxaphene	0.025	U	0.071	0.025	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1
Chlordane (n.o.s.)	0.017	U	0.071	0.017	mg/Kg	☼	02/07/25 16:40	02/08/25 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*17 - 150*	*02/07/25 16:40*	*02/08/25 10:58*	*1*
DCB Decachlorobiphenyl	*90*		*17 - 150*	*02/07/25 16:40*	*02/08/25 10:58*	*1*
Tetrachloro-m-xylene	*87*		*21 - 150*	*02/07/25 16:40*	*02/08/25 10:58*	*1*
Tetrachloro-m-xylene	*81*		*21 - 150*	*02/07/25 16:40*	*02/08/25 10:58*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Aroclor 1221	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Aroclor 1232	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Aroclor 1242	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Aroclor 1248	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Aroclor 1254	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Aroclor 1260	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Aroclor-1262	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Aroclor 1268	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1
Polychlorinated biphenyls, Total	0.019	U	0.071	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*20 - 150*	*02/07/25 16:19*	*02/08/25 10:50*	*1*

Client Sample ID: 2A-04-CS-4

Date Collected: 01/27/25 08:50
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-2

Matrix: Solid
Percent Solids: 94.7

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*20 - 150*	*02/07/25 16:19*	*02/08/25 10:50*	*1*
Tetrachloro-m-xylene	*54*		*20 - 150*	*02/07/25 16:19*	*02/08/25 10:50*	*1*
Tetrachloro-m-xylene	*53*		*20 - 150*	*02/07/25 16:19*	*02/08/25 10:50*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 13:46	1
C9-C12 Aliphatics	3.2	U	3.2	3.2	mg/Kg	☼	02/07/25 16:17	02/08/25 13:46	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 13:46	1
C21-C40 Aliphatics	7.4	U	7.4	7.4	mg/Kg	☼	02/07/25 16:17	02/08/25 13:46	1
C16-C21 Aromatics	5.3	U	5.3	5.3	mg/Kg	☼	02/07/25 16:17	02/08/25 13:15	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 13:15	1
C12-C16 Aromatics	3.2	U	3.2	3.2	mg/Kg	☼	02/07/25 16:17	02/08/25 13:15	1
C21-C36 Aromatic	8.4	U	8.4	8.4	mg/Kg	☼	02/07/25 16:17	02/08/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:15*	*1*
2-Fluorobiphenyl	*96*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:15*	*1*
2-Bromonaphthalene	*97*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:15*	*1*
1-Chlorooctadecane	*84*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:46*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4730**		19.2	5.3	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Antimony	0.14	U	0.96	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Arsenic	**1.3**		0.96	0.099	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Barium	**4.4**		1.9	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Beryllium	0.055	U	0.38	0.055	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Cadmium	0.11	U	0.96	0.11	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Calcium	39.1	U	96.0	39.1	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Chromium	**6.0**		1.9	0.87	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Cobalt	**0.37**	**J**	1.9	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Copper	**2.4**		1.9	0.35	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Iron	**3910**		57.6	19.4	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Lead	**3.0**		0.58	0.19	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Magnesium	**106**		96.0	9.8	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Manganese	**6.9**		3.8	0.39	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Nickel	**1.5**	**J**	1.9	0.45	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Potassium	**110**		96.0	15.6	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Silver	0.085	U	0.38	0.085	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Sodium	43.9	U	96.0	43.9	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1
Vanadium	**7.6**		1.9	0.20	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1

Client Sample ID: 2A-04-CS-4

Lab Sample ID: 460-319357-2

Date Collected: 01/27/25 08:50
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 94.7

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.9	U	7.7	2.9	mg/Kg	☼	02/08/25 05:41	02/10/25 16:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0079	U	0.017	0.0079	mg/Kg	☼	02/10/25 00:50	02/10/25 04:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U F1	0.24	0.13	mg/Kg	☼	02/09/25 13:59	02/09/25 15:28	1
Percent Moisture (EPA Moisture)	**5.3**		1.0	1.0	%			02/10/25 07:53	1
Percent Solids (EPA Moisture)	**94.7**		1.0	1.0	%			02/10/25 07:53	1

Client Sample ID: 2A-04-CS-8

Lab Sample ID: 460-319357-3

Date Collected: 01/27/25 08:40
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 95.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,2-Dibromo-3-Chloropropane	0.00048	U	0.0010	0.00048	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,2-Dibromoethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,2-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,2-Dichloroethane	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,2-Dichloropropane	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,3-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
2-Butanone (MEK)	0.00038	U	0.0052	0.00038	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
2-Hexanone	0.0018	U	0.0052	0.0018	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0052	0.0016	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Acetone	**0.14**		0.0062	0.0059	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Benzene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Bromodichloromethane	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Bromoform	0.00044	U	0.0010	0.00044	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Bromomethane	0.0010	U	0.0021	0.0010	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Carbon disulfide	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Chlorobromomethane	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Chloroethane	0.00054	U	0.0010	0.00054	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Chloroform	0.0010	U	0.0010	0.0010	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Chloromethane	0.00045	U	0.0010	0.00045	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1

Client Sample ID: 2A-04-CS-8
Date Collected: 01/27/25 08:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-3
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Dibromochloromethane	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Ethylbenzene	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Isopropylbenzene	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Methyl acetate	0.0045	U	0.0052	0.0045	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Methyl tert-butyl ether	0.00053	U	0.0010	0.00053	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Methylcyclohexane	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
m-Xylene & p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Styrene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Tetrachloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
trans-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1
Vinyl chloride	0.00057	U	0.0010	0.00057	mg/Kg	☼	01/27/25 18:21	02/08/25 04:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/27/25 18:21*	*02/08/25 04:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*65 - 138*	*01/27/25 18:21*	*02/08/25 04:21*	*1*
4-Bromofluorobenzene	*103*		*71 - 128*	*01/27/25 18:21*	*02/08/25 04:21*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*	*01/27/25 18:21*	*02/08/25 04:21*	*1*
Toluene-d8 (Surr)	*88*		*71 - 126*	*01/27/25 18:21*	*02/08/25 04:21*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
1,2,4-Trichlorobenzene	0.0089	U	0.034	0.0089	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
1,2-Dichlorobenzene	0.0059	U	0.34	0.0059	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
1,2-Diphenylhydrazine	0.014	U	0.34	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2-Methylnaphthalene	0.0096	U	0.34	0.0096	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
2-Nitrophenol	0.035	U	0.34	0.035	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1

Client Sample ID: 2A-04-CS-8
Date Collected: 01/27/25 08:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-3
Matrix: Solid
Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
4-Methylphenol	0.022	U	0.34	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
4-Nitroaniline	0.040	U	0.34	0.040	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Acenaphthylene	0.0099	U	0.34	0.0099	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Anthracene	0.010	U	0.34	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Benzidine	0.072	U	0.34	0.072	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Benzo[a]pyrene	0.0092	U	0.034	0.0092	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Benzo[b]fluoranthene	0.0089	U	0.034	0.0089	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Benzo[g,h,i]perylene	0.010	U	0.34	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Benzo[k]fluoranthene	0.0068	U	0.034	0.0068	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
bis (2-chloroisopropyl) ether	0.021	U	0.34	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Caprolactam	0.054	U	0.34	0.054	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Chrysene	0.014	U	0.34	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Dibenzofuran	0.011	U	0.34	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Fluoranthene	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Hexachlorobutadiene	0.0073	U	0.070	0.0073	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Naphthalene	0.0060	U	0.34	0.0060	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1

Client Sample ID: 2A-04-CS-8

Date Collected: 01/27/25 08:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-3

Matrix: Solid
Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1
Pyrene	0.0086	U	0.34	0.0086	mg/Kg	☼	02/07/25 19:33	02/08/25 16:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/07/25 19:33*	*02/08/25 16:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*24 - 137*	*02/07/25 19:33*	*02/08/25 16:26*	*1*
2-Fluorobiphenyl	*71*		*38 - 128*	*02/07/25 19:33*	*02/08/25 16:26*	*1*
2-Fluorophenol (Surr)	*71*		*31 - 133*	*02/07/25 19:33*	*02/08/25 16:26*	*1*
Nitrobenzene-d5 (Surr)	*68*		*31 - 120*	*02/07/25 19:33*	*02/08/25 16:26*	*1*
Phenol-d5 (Surr)	*69*		*35 - 132*	*02/07/25 19:33*	*02/08/25 16:26*	*1*
Terphenyl-d14 (Surr)	*74*		*44 - 147*	*02/07/25 19:33*	*02/08/25 16:26*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
4,4'-DDE	0.00082	U	0.0070	0.00082	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Aldrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Dieldrin	0.00090	U	0.0021	0.00090	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Endosulfan sulfate	0.00087	U	0.0070	0.00087	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Endrin aldehyde	0.0016	U	0.0070	0.0016	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
gamma-BHC (Lindane)	0.00064	U	0.0021	0.00064	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Heptachlor	0.00082	U	0.0070	0.00082	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	02/07/25 16:40	02/08/25 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*17 - 150*	*02/07/25 16:40*	*02/08/25 11:14*	*1*
DCB Decachlorobiphenyl	*75*		*17 - 150*	*02/07/25 16:40*	*02/08/25 11:14*	*1*
Tetrachloro-m-xylene	*70*		*21 - 150*	*02/07/25 16:40*	*02/08/25 11:14*	*1*
Tetrachloro-m-xylene	*65*		*21 - 150*	*02/07/25 16:40*	*02/08/25 11:14*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1
Aroclor 1221	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1
Aroclor 1232	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1
Aroclor 1242	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1

Client Sample ID: 2A-04-CS-8

Date Collected: 01/27/25 08:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-3

Matrix: Solid
Percent Solids: 95.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1
Aroclor 1254	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1
Aroclor 1260	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1
Aroclor-1262	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1
Aroclor 1268	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1
Polychlorinated biphenyls, Total	0.018	U	0.070	0.018	mg/Kg	☼	02/07/25 16:19	02/08/25 11:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:06*	*1*
DCB Decachlorobiphenyl	*77*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:06*	*1*
Tetrachloro-m-xylene	*71*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:06*	*1*
Tetrachloro-m-xylene	*70*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:06*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:02	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:02	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:02	1
C21-C40 Aliphatics	7.3	U	7.3	7.3	mg/Kg	☼	02/07/25 16:17	02/08/25 14:02	1
C16-C21 Aromatics	5.2	U	5.2	5.2	mg/Kg	☼	02/07/25 16:17	02/08/25 13:31	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 13:31	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	02/07/25 16:17	02/08/25 13:31	1
C21-C36 Aromatic	8.3	U	8.3	8.3	mg/Kg	☼	02/07/25 16:17	02/08/25 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:31*	*1*
2-Fluorobiphenyl	*97*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:31*	*1*
2-Bromonaphthalene	*100*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:31*	*1*
1-Chlorooctadecane	*82*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:02*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2180**		19.0	5.2	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Antimony	0.14	U	0.95	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Arsenic	**0.63**	**J**	0.95	0.098	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Barium	**1.9**		1.9	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Cadmium	0.11	U	0.95	0.11	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Calcium	38.6	U	94.9	38.6	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Chromium	**2.7**		1.9	0.86	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Cobalt	**0.21**	**J**	1.9	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Copper	**1.5**	**J**	1.9	0.35	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Iron	**1850**		56.9	19.2	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Lead	**1.4**		0.57	0.19	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Magnesium	**33.5**	**J**	94.9	9.7	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1

Client Sample ID: 2A-04-CS-8

Lab Sample ID: 460-319357-3

Date Collected: 01/27/25 08:40
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 95.8

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**3.9**		3.8	0.38	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Nickel	**0.68**	**J**	1.9	0.45	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Potassium	**55.4**	**J**	94.9	15.4	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Silver	0.084	U	0.38	0.084	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Sodium	43.4	U	94.9	43.4	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Vanadium	**3.3**		1.9	0.20	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1
Zinc	2.9	U	7.6	2.9	mg/Kg	☼	02/08/25 05:41	02/10/25 16:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0082	U	0.017	0.0082	mg/Kg	☼	02/10/25 00:50	02/10/25 04:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	U	0.25	0.14	mg/Kg	☼	02/09/25 13:59	02/09/25 15:31	1
Percent Moisture (EPA Moisture)	**4.2**		1.0	1.0	%			02/10/25 07:53	1
Percent Solids (EPA Moisture)	**95.8**		1.0	1.0	%			02/10/25 07:53	1

Client Sample ID: 2A-03-CS-4

Lab Sample ID: 460-319357-4

Date Collected: 01/27/25 09:20
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U *-	0.0010	0.00023	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,2-Dibromo-3-Chloropropane	0.00046	U *+	0.0010	0.00046	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
2-Hexanone	0.0017	U *-	0.0050	0.0017	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
4-Methyl-2-pentanone (MIBK)	0.0016	U *-	0.0050	0.0016	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-03-CS-4
Date Collected: 01/27/25 09:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-4
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Chloromethane	**0.0034**		0.0010	0.00044	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg	☼	01/27/25 18:22	01/30/25 14:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1R-.alpha.-Pinene	*14*	*J N*	*ug/Kg*	☼	*9.92*	*7785-70-8*	*01/27/25 18:22*	*01/30/25 14:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*65 - 138*	*01/27/25 18:22*	*01/30/25 14:59*	*1*
4-Bromofluorobenzene	*90*		*71 - 128*	*01/27/25 18:22*	*01/30/25 14:59*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*	*01/27/25 18:22*	*01/30/25 14:59*	*1*
Toluene-d8 (Surr)	*82*		*71 - 126*	*01/27/25 18:22*	*01/30/25 14:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-03-CS-4
Date Collected: 01/27/25 09:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-4
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1

Client Sample ID: 2A-03-CS-4
Date Collected: 01/27/25 09:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-4
Matrix: Solid
Percent Solids: 99.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/29/25 09:43	01/29/25 16:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.91*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/29/25 09:43*	*01/29/25 16:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*24 - 137*	*01/29/25 09:43*	*01/29/25 16:08*	*1*
2-Fluorobiphenyl	*102*		*38 - 128*	*01/29/25 09:43*	*01/29/25 16:08*	*1*
2-Fluorophenol (Surr)	*94*		*31 - 133*	*01/29/25 09:43*	*01/29/25 16:08*	*1*
Nitrobenzene-d5 (Surr)	*96*		*31 - 120*	*01/29/25 09:43*	*01/29/25 16:08*	*1*
Phenol-d5 (Surr)	*95*		*35 - 132*	*01/29/25 09:43*	*01/29/25 16:08*	*1*
Terphenyl-d14 (Surr)	*105*		*44 - 147*	*01/29/25 09:43*	*01/29/25 16:08*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0068	0.0011	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/30/25 10:19	01/31/25 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*17 - 150*	*01/30/25 10:19*	*01/31/25 04:17*	*1*
DCB Decachlorobiphenyl	*109*		*17 - 150*	*01/30/25 10:19*	*01/31/25 04:17*	*1*

Client Sample ID: 2A-03-CS-4

Date Collected: 01/27/25 09:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-4

Matrix: Solid
Percent Solids: 99.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*21 - 150*	*01/30/25 10:19*	*01/31/25 04:17*	*1*
Tetrachloro-m-xylene	*96*		*21 - 150*	*01/30/25 10:19*	*01/31/25 04:17*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Aroclor 1260	0.018	U *+ *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1
Polychlorinated biphenyls, Total	0.018	U *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*132*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:10*	*1*
DCB Decachlorobiphenyl	*128*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:10*	*1*
Tetrachloro-m-xylene	*128*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:10*	*1*
Tetrachloro-m-xylene	*125*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:10*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/30/25 23:50	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/30/25 23:50	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/30/25 23:50	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/30/25 10:45	01/30/25 23:50	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/30/25 10:45	01/30/25 23:50	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/30/25 23:50	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/30/25 23:50	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/30/25 10:45	01/30/25 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*40 - 140*	*01/30/25 10:45*	*01/30/25 23:50*	*1*
2-Fluorobiphenyl	*102*		*40 - 140*	*01/30/25 10:45*	*01/30/25 23:50*	*1*
2-Bromonaphthalene	*93*		*40 - 140*	*01/30/25 10:45*	*01/30/25 23:50*	*1*
1-Chlorooctadecane	*79*		*40 - 140*	*01/30/25 10:45*	*01/30/25 23:50*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4300**		18.8	5.2	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Antimony	0.14	U	0.94	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Arsenic	**1.2**		0.94	0.097	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1

Client Sample ID: 2A-03-CS-4

Lab Sample ID: 460-319357-4

Date Collected: 01/27/25 09:20
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 99.2

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**3.8**		1.9	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Cadmium	0.11	U	0.94	0.11	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Calcium	38.4	U	94.2	38.4	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Chromium	**5.8**		1.9	0.86	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Cobalt	**0.47**	**J**	1.9	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Copper	**2.4**		1.9	0.35	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Iron	**3920**		56.5	19.0	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Lead	**3.0**		0.57	0.19	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Magnesium	**124**		94.2	9.6	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Manganese	**13.0**		3.8	0.38	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Nickel	**1.7**	**J**	1.9	0.44	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Potassium	**121**		94.2	15.3	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Selenium	**0.14**	**J**	1.2	0.12	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Silver	0.084	U	0.38	0.084	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Sodium	43.1	U	94.2	43.1	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Vanadium	**6.8**		1.9	0.19	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1
Zinc	**2.9**	**J**	7.5	2.9	mg/Kg	☼	01/30/25 07:39	01/31/25 14:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0079	U	0.017	0.0079	mg/Kg	☼	01/29/25 01:05	01/29/25 05:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.20	0.11	mg/Kg	☼	01/31/25 07:50	01/31/25 12:24	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 16:39	1
Percent Solids (EPA Moisture)	**99.2**		1.0	1.0	%			01/27/25 16:39	1

Client Sample ID: 2A-03-CS-8

Lab Sample ID: 460-319357-5

Date Collected: 01/27/25 09:30
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 98.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U *-	0.00098	0.00023	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00098	0.00021	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,1,2-Trichloroethane	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,1-Dichloroethane	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,1-Dichloroethene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,2,3-Trichlorobenzene	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,2,4-Trichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,2-Dibromo-3-Chloropropane	0.00045	U *+	0.00098	0.00045	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,2-Dibromoethane	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,2-Dichlorobenzene	0.00036	U	0.00098	0.00036	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,2-Dichloroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,2-Dichloropropane	0.00042	U	0.00098	0.00042	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
1,3-Dichlorobenzene	0.00036	U	0.00098	0.00036	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1

Client Sample ID: 2A-03-CS-8
Date Collected: 01/27/25 09:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-5
Matrix: Solid
Percent Solids: 98.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
2-Butanone (MEK)	0.00036	U	0.0049	0.00036	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
2-Hexanone	0.0017	U *-	0.0049	0.0017	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
4-Methyl-2-pentanone (MIBK)	0.0015	U *-	0.0049	0.0015	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Acetone	0.0056	U	0.0059	0.0056	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Benzene	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Bromodichloromethane	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Bromoform	0.00042	U	0.00098	0.00042	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Bromomethane	0.00098	U	0.0020	0.00098	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Carbon disulfide	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Carbon tetrachloride	0.00038	U	0.00098	0.00038	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Chlorobenzene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Chlorobromomethane	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Chloroethane	0.00051	U	0.00098	0.00051	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Chloroform	0.00096	U	0.00098	0.00096	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Chloromethane	0.00043	U	0.00098	0.00043	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
cis-1,2-Dichloroethene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
cis-1,3-Dichloropropene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Cyclohexane	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Dibromochloromethane	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Dichlorodifluoromethane	0.00033	U	0.00098	0.00033	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Ethylbenzene	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Isopropylbenzene	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Methyl acetate	0.0042	U	0.0049	0.0042	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Methyl tert-butyl ether	0.00050	U	0.00098	0.00050	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Methylcyclohexane	0.00049	U	0.00098	0.00049	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
m-Xylene & p-Xylene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
o-Xylene	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Styrene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Tetrachloroethene	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Toluene	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
trans-1,2-Dichloroethene	0.00024	U	0.00098	0.00024	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
trans-1,3-Dichloropropene	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Trichloroethene	0.00032	U	0.00098	0.00032	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Trichlorofluoromethane	0.00040	U	0.00098	0.00040	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1
Vinyl chloride	0.00054	U	0.00098	0.00054	mg/Kg	☼	01/27/25 18:23	01/30/25 15:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/27/25 18:23*	*01/30/25 15:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*65 - 138*	*01/27/25 18:23*	*01/30/25 15:22*	*1*
4-Bromofluorobenzene	*94*		*71 - 128*	*01/27/25 18:23*	*01/30/25 15:22*	*1*
Dibromofluoromethane (Surr)	*113*		*50 - 150*	*01/27/25 18:23*	*01/30/25 15:22*	*1*
Toluene-d8 (Surr)	*83*		*71 - 126*	*01/27/25 18:23*	*01/30/25 15:22*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-03-CS-8
Date Collected: 01/27/25 09:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-5
Matrix: Solid
Percent Solids: 98.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2,4-Dichlorophenol	0.022	U	0.13	0.022	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2-Chloronaphthalene	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2-Methylphenol	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2-Nitroaniline	0.026	U	0.33	0.026	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
3-Nitroaniline	0.080	U	0.33	0.080	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
4-Chloroaniline	0.060	U	0.33	0.060	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
4-Nitroaniline	0.039	U	0.33	0.039	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Acenaphthene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Benzo[b]fluoranthene	0.0087	U	0.033	0.0087	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Dibenz(a,h)anthracene	0.015	U	0.033	0.015	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1

Client Sample ID: 2A-03-CS-8
Date Collected: 01/27/25 09:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-5
Matrix: Solid
Percent Solids: 98.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Hexachlorocyclopentadiene	0.029	U *+ F1	0.33	0.029	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Hexachloroethane	0.012	U	0.033	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/29/25 09:43	01/29/25 15:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.75*	*A J*	*mg/Kg*	☼	*1.87*	*N/A*	*01/29/25 09:43*	*01/29/25 15:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*24 - 137*	*01/29/25 09:43*	*01/29/25 15:30*	*1*
2-Fluorobiphenyl	*81*		*38 - 128*	*01/29/25 09:43*	*01/29/25 15:30*	*1*
2-Fluorophenol (Surr)	*74*		*31 - 133*	*01/29/25 09:43*	*01/29/25 15:30*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*	*01/29/25 09:43*	*01/29/25 15:30*	*1*
Phenol-d5 (Surr)	*76*		*35 - 132*	*01/29/25 09:43*	*01/29/25 15:30*	*1*
Terphenyl-d14 (Surr)	*92*		*44 - 147*	*01/29/25 09:43*	*01/29/25 15:30*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
delta-BHC	0.00042	U	0.0020	0.00042	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1

Client Sample ID: 2A-03-CS-8

Date Collected: 01/27/25 09:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-5

Matrix: Solid
Percent Solids: 98.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Methoxychlor	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Toxaphene	0.025	U	0.068	0.025	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/30/25 10:19	01/31/25 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*17 - 150*	*01/30/25 10:19*	*01/31/25 04:56*	*1*
DCB Decachlorobiphenyl	*104*		*17 - 150*	*01/30/25 10:19*	*01/31/25 04:56*	*1*
Tetrachloro-m-xylene	*91*		*21 - 150*	*01/30/25 10:19*	*01/31/25 04:56*	*1*
Tetrachloro-m-xylene	*93*		*21 - 150*	*01/30/25 10:19*	*01/31/25 04:56*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Aroclor 1260	0.018	U *+ *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1
Polychlorinated biphenyls, Total	0.018	U *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:27*	*1*
DCB Decachlorobiphenyl	*113*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:27*	*1*
Tetrachloro-m-xylene	*107*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:27*	*1*
Tetrachloro-m-xylene	*106*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:27*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:06	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:06	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:06	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:06	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:06	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:06	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:06	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:06*	*1*

Client Sample ID: 2A-03-CS-8

Date Collected: 01/27/25 09:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-5

Matrix: Solid
Percent Solids: 98.4

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:06*	*1*
2-Bromonaphthalene	*88*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:06*	*1*
1-Chlorooctadecane	*76*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:06*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5760**		18.6	5.1	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Antimony	0.14	U	0.93	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Arsenic	**1.8**		0.93	0.096	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Barium	**3.7**		1.9	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Beryllium	**0.073**	**J**	0.37	0.053	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Cadmium	0.11	U	0.93	0.11	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Calcium	37.9	U	93.2	37.9	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Chromium	**6.7**		1.9	0.85	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Cobalt	**0.39**	**J**	1.9	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Copper	**3.4**		1.9	0.34	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Iron	**8310**		55.9	18.8	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Lead	**2.0**		0.56	0.19	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Magnesium	**61.4**	**J**	93.2	9.5	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Manganese	**5.2**		3.7	0.38	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Nickel	**1.8**	**J**	1.9	0.44	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Potassium	**112**		93.2	15.1	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Silver	0.083	U	0.37	0.083	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Sodium	42.6	U	93.2	42.6	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Vanadium	**9.0**		1.9	0.19	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1
Zinc	**3.4**	**J**	7.5	2.8	mg/Kg	☼	01/30/25 07:39	01/31/25 14:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.015	0.0073	mg/Kg	☼	01/29/25 01:05	01/29/25 05:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.11	U	0.21	0.11	mg/Kg	☼	01/31/25 07:50	01/31/25 12:26	1
Percent Moisture (EPA Moisture)	**1.6**		1.0	1.0	%			01/27/25 16:39	1
Percent Solids (EPA Moisture)	**98.4**		1.0	1.0	%			01/27/25 16:39	1

Client Sample ID: 2A-08-CS-4

Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6

Matrix: Solid
Percent Solids: 95.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1

Client Sample ID: 2A-08-CS-4
Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6
Matrix: Solid
Percent Solids: 95.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,2,3-Trichlorobenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,2,4-Trichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,2-Dibromo-3-Chloropropane	0.00052	U	0.0011	0.00052	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,2-Dibromoethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,2-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,2-Dichloroethane	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,2-Dichloropropane	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,3-Dichlorobenzene	0.00042	U	0.0011	0.00042	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
1,4-Dichlorobenzene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
2-Butanone (MEK)	0.00042	U	0.0057	0.00042	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
2-Hexanone	0.0020	U	0.0057	0.0020	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
4-Methyl-2-pentanone (MIBK)	0.0018	U	0.0057	0.0018	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Acetone	**0.012**		0.0068	0.0065	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Benzene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Bromodichloromethane	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Bromoform	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Bromomethane	0.0011	U	0.0023	0.0011	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Carbon disulfide	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Carbon tetrachloride	0.00044	U	0.0011	0.00044	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Chlorobromomethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Chloroethane	0.00060	U	0.0011	0.00060	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Chloromethane	0.00050	U	0.0011	0.00050	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
cis-1,2-Dichloroethene	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Dibromochloromethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Dichlorodifluoromethane	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Ethylbenzene	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Isopropylbenzene	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Methyl acetate	0.0049	U	0.0057	0.0049	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Methyl tert-butyl ether	0.00058	U	0.0011	0.00058	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Methylcyclohexane	0.00057	U	0.0011	0.00057	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Methylene Chloride	0.0013	U	0.0023	0.0013	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
m-Xylene & p-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
o-Xylene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Styrene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Tetrachloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Toluene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
trans-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Trichloroethene	0.00037	U	0.0011	0.00037	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Trichlorofluoromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1
Vinyl chloride	0.00062	U	0.0011	0.00062	mg/Kg	☼	01/27/25 18:24	02/08/25 04:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1R-.alpha.-Pinene	*14*	*J N*	*ug/Kg*	☼	*8.70*	*7785-70-8*	*01/27/25 18:24*	*02/08/25 04:45*	*1*

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-08-CS-4

Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6

Matrix: Solid
Percent Solids: 95.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*85*		*65 - 138*	*01/27/25 18:24*	*02/08/25 04:45*	*1*
4-Bromofluorobenzene	*106*		*71 - 128*	*01/27/25 18:24*	*02/08/25 04:45*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*	*01/27/25 18:24*	*02/08/25 04:45*	*1*
Toluene-d8 (Surr)	*88*		*71 - 126*	*01/27/25 18:24*	*02/08/25 04:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
1,2,4-Trichlorobenzene	0.0089	U	0.035	0.0089	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
1,2-Dichlorobenzene	0.0059	U	0.35	0.0059	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
1,2-Diphenylhydrazine	0.014	U	0.35	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
1,3-Dichlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
1,4-Dichlorobenzene	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2,4,5-Trichlorophenol	0.035	U	0.35	0.035	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2,4-Dimethylphenol	0.041	U	0.35	0.041	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2-Methylnaphthalene	0.0097	U	0.35	0.0097	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2-Nitroaniline	0.026	U	0.35	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
3,3'-Dichlorobenzidine	0.053	U	0.14	0.053	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
3-Nitroaniline	0.082	U	0.35	0.082	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
4-Chloro-3-methylphenol	0.019	U	0.35	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
4-Nitrophenol	0.057	U	0.70	0.057	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Acenaphthene	0.0099	U	0.35	0.0099	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Acenaphthylene	0.0099	U	0.35	0.0099	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Anthracene	0.011	U	0.35	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Benzaldehyde	0.057	U	0.35	0.057	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Benzidine	0.073	U	0.35	0.073	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Benzo[a]anthracene	0.026	U	0.035	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Benzo[a]pyrene	0.0093	U	0.035	0.0093	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Benzo[b]fluoranthene	0.0090	U	0.035	0.0090	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Benzo[g,h,i]perylene	0.010	U	0.35	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Benzo[k]fluoranthene	0.0068	U	0.035	0.0068	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
bis (2-chloroisopropyl) ether	0.021	U	0.35	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1

Client Sample ID: 2A-08-CS-4
Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6
Matrix: Solid
Percent Solids: 95.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.35	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Caprolactam	0.054	U	0.35	0.054	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Carbazole	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Chrysene	0.015	U	0.35	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Dibenz(a,h)anthracene	0.015	U	0.035	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Dibenzofuran	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Fluoranthene	0.012	U	0.35	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Fluorene	0.010	U	0.35	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Hexachlorocyclopentadiene	0.030	U	0.35	0.030	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Indeno[1,2,3-cd]pyrene	0.014	U	0.035	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Naphthalene	0.0060	U	0.35	0.0060	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
N-Nitrosodimethylamine	0.032	U	0.35	0.032	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Phenanthrene	0.014	U	0.35	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1
Pyrene	0.0086	U	0.35	0.0086	mg/Kg	☼	02/07/25 19:33	02/08/25 16:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/07/25 19:33*	*02/08/25 16:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*24 - 137*	*02/07/25 19:33*	*02/08/25 16:45*	*1*
2-Fluorobiphenyl	*72*		*38 - 128*	*02/07/25 19:33*	*02/08/25 16:45*	*1*
2-Fluorophenol (Surr)	*72*		*31 - 133*	*02/07/25 19:33*	*02/08/25 16:45*	*1*
Nitrobenzene-d5 (Surr)	*70*		*31 - 120*	*02/07/25 19:33*	*02/08/25 16:45*	*1*
Phenol-d5 (Surr)	*71*		*35 - 132*	*02/07/25 19:33*	*02/08/25 16:45*	*1*
Terphenyl-d14 (Surr)	*76*		*44 - 147*	*02/07/25 19:33*	*02/08/25 16:45*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
4,4'-DDE	0.00083	U	0.0070	0.00083	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
beta-BHC	0.00079	U	0.0021	0.00079	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1

Client Sample ID: 2A-08-CS-4

Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6

Matrix: Solid
Percent Solids: 95.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Endosulfan sulfate	0.00088	U	0.0070	0.00088	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Endrin aldehyde	0.0017	U	0.0070	0.0017	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Heptachlor	0.00083	U	0.0070	0.00083	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	02/07/25 16:40	02/08/25 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*17 - 150*	*02/07/25 16:40*	*02/08/25 11:30*	*1*
DCB Decachlorobiphenyl	*76*		*17 - 150*	*02/07/25 16:40*	*02/08/25 11:30*	*1*
Tetrachloro-m-xylene	*70*		*21 - 150*	*02/07/25 16:40*	*02/08/25 11:30*	*1*
Tetrachloro-m-xylene	*68*		*21 - 150*	*02/07/25 16:40*	*02/08/25 11:30*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1
Polychlorinated biphenyls, Total	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:23*	*1*
DCB Decachlorobiphenyl	*88*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:23*	*1*
Tetrachloro-m-xylene	*81*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:23*	*1*
Tetrachloro-m-xylene	*80*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:23*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:17	1
C9-C12 Aliphatics	3.2	U	3.2	3.2	mg/Kg	☼	02/07/25 16:17	02/08/25 14:17	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:17	1
C21-C40 Aliphatics	7.4	U	7.4	7.4	mg/Kg	☼	02/07/25 16:17	02/08/25 14:17	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-08-CS-4

Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6

Matrix: Solid
Percent Solids: 95.1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.3	U	5.3	5.3	mg/Kg	☼	02/07/25 16:17	02/08/25 13:46	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 13:46	1
C12-C16 Aromatics	3.2	U	3.2	3.2	mg/Kg	☼	02/07/25 16:17	02/08/25 13:46	1
C21-C36 Aromatic	8.4	U	8.4	8.4	mg/Kg	☼	02/07/25 16:17	02/08/25 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:46*	*1*
2-Fluorobiphenyl	*87*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:46*	*1*
2-Bromonaphthalene	*90*		*40 - 140*	*02/07/25 16:17*	*02/08/25 13:46*	*1*
1-Chlorooctadecane	*75*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:17*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6420**		19.1	5.2	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Antimony	0.14	U	0.96	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Arsenic	**1.7**		0.96	0.098	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Barium	**4.8**		1.9	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Beryllium	**0.065**	**J**	0.38	0.054	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Cadmium	0.11	U	0.96	0.11	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Calcium	38.9	U	95.6	38.9	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Chromium	**8.0**		1.9	0.87	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Cobalt	**0.50**	**J**	1.9	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Copper	**3.3**		1.9	0.35	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Iron	**5700**		57.4	19.3	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Lead	**3.3**		0.57	0.19	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Magnesium	**121**		95.6	9.8	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Manganese	**11.1**		3.8	0.39	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Nickel	**1.9**		1.9	0.45	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Potassium	**143**		95.6	15.5	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Selenium	**0.14**	**J**	1.2	0.12	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Silver	0.085	U	0.38	0.085	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Sodium	43.7	U	95.6	43.7	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Vanadium	**10.6**		1.9	0.20	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1
Zinc	**3.0**	**J**	7.6	2.9	mg/Kg	☼	02/08/25 05:41	02/10/25 16:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0081	U	0.017	0.0081	mg/Kg	☼	02/10/25 00:50	02/10/25 04:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	02/09/25 13:59	02/09/25 15:32	1
Percent Moisture (EPA Moisture)	**4.9**		1.0	1.0	%			02/10/25 07:53	1
Percent Solids (EPA Moisture)	**95.1**		1.0	1.0	%			02/10/25 07:53	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-08-CS-8

Date Collected: 01/27/25 10:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-7

Matrix: Solid
Percent Solids: 95.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,2,4-Trichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,2-Dibromo-3-Chloropropane	0.00052	U	0.0011	0.00052	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,2-Dibromoethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,2-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,2-Dichloroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,2-Dichloropropane	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,3-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
1,4-Dichlorobenzene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
2-Butanone (MEK)	0.00041	U	0.0056	0.00041	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
2-Hexanone	0.0019	U	0.0056	0.0019	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0056	0.0017	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Acetone	**0.014**		0.0067	0.0064	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Benzene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Bromodichloromethane	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Bromoform	0.00048	U	0.0011	0.00048	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Carbon disulfide	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Carbon tetrachloride	0.00043	U	0.0011	0.00043	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Chlorobromomethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Chloroethane	0.00059	U	0.0011	0.00059	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Chloromethane	0.00049	U	0.0011	0.00049	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
cis-1,2-Dichloroethene	0.00040	U	0.0011	0.00040	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Dibromochloromethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Dichlorodifluoromethane	0.00038	U	0.0011	0.00038	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Isopropylbenzene	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Methyl acetate	0.0048	U	0.0056	0.0048	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Methyl tert-butyl ether	0.00057	U	0.0011	0.00057	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Methylcyclohexane	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Methylene Chloride	0.0013	U	0.0022	0.0013	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
m-Xylene & p-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
o-Xylene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Tetrachloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Toluene	0.00026	U	0.0011	0.00026	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
trans-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Trichloroethene	0.00036	U	0.0011	0.00036	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1

Client Sample ID: 2A-08-CS-8
Date Collected: 01/27/25 10:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-7
Matrix: Solid
Percent Solids: 95.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1
Vinyl chloride	0.00061	U	0.0011	0.00061	mg/Kg	☼	01/27/25 18:25	02/08/25 05:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/27/25 18:25*	*02/08/25 05:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*65 - 138*	*01/27/25 18:25*	*02/08/25 05:10*	*1*
4-Bromofluorobenzene	*100*		*71 - 128*	*01/27/25 18:25*	*02/08/25 05:10*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 150*	*01/27/25 18:25*	*02/08/25 05:10*	*1*
Toluene-d8 (Surr)	*86*		*71 - 126*	*01/27/25 18:25*	*02/08/25 05:10*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
1,2,4-Trichlorobenzene	0.0089	U	0.034	0.0089	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
1,2-Dichlorobenzene	0.0059	U	0.34	0.0059	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
1,2-Diphenylhydrazine	0.014	U	0.34	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2-Methylnaphthalene	0.0097	U	0.34	0.0097	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
2-Nitrophenol	0.035	U	0.34	0.035	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
4-Methylphenol	0.022	U	0.34	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
4-Nitroaniline	0.040	U	0.34	0.040	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Acenaphthylene	0.0099	U	0.34	0.0099	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Anthracene	0.011	U	0.34	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Benzidine	0.072	U	0.34	0.072	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-08-CS-8
Date Collected: 01/27/25 10:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-7
Matrix: Solid
Percent Solids: 95.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Benzo[a]pyrene	0.0092	U	0.034	0.0092	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Benzo[b]fluoranthene	0.0089	U	0.034	0.0089	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Benzo[g,h,i]perylene	0.010	U	0.34	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Benzo[k]fluoranthene	0.0068	U	0.034	0.0068	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
bis (2-chloroisopropyl) ether	0.021	U	0.34	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Caprolactam	0.054	U	0.34	0.054	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Chrysene	0.015	U	0.34	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Dibenzofuran	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Fluoranthene	0.012	U	0.34	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Hexachlorobutadiene	0.0073	U	0.070	0.0073	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Naphthalene	0.0060	U	0.34	0.0060	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1
Pyrene	0.0086	U	0.34	0.0086	mg/Kg	☼	02/07/25 19:33	02/08/25 17:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/07/25 19:33*	*02/08/25 17:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*24 - 137*	*02/07/25 19:33*	*02/08/25 17:05*	*1*
2-Fluorobiphenyl	*71*		*38 - 128*	*02/07/25 19:33*	*02/08/25 17:05*	*1*
2-Fluorophenol (Surr)	*69*		*31 - 133*	*02/07/25 19:33*	*02/08/25 17:05*	*1*
Nitrobenzene-d5 (Surr)	*68*		*31 - 120*	*02/07/25 19:33*	*02/08/25 17:05*	*1*
Phenol-d5 (Surr)	*69*		*35 - 132*	*02/07/25 19:33*	*02/08/25 17:05*	*1*
Terphenyl-d14 (Surr)	*74*		*44 - 147*	*02/07/25 19:33*	*02/08/25 17:05*	*1*

Client Sample ID: 2A-08-CS-8

Date Collected: 01/27/25 10:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-7

Matrix: Solid
Percent Solids: 95.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
4,4'-DDE	0.00083	U	0.0070	0.00083	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Endosulfan sulfate	0.00088	U	0.0070	0.00088	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Endrin aldehyde	0.0017	U	0.0070	0.0017	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Heptachlor	0.00083	U	0.0070	0.00083	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	02/07/25 16:40	02/08/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*17 - 150*	*02/07/25 16:40*	*02/08/25 11:46*	*1*
DCB Decachlorobiphenyl	*44*		*17 - 150*	*02/07/25 16:40*	*02/08/25 11:46*	*1*
Tetrachloro-m-xylene	*42*		*21 - 150*	*02/07/25 16:40*	*02/08/25 11:46*	*1*
Tetrachloro-m-xylene	*40*		*21 - 150*	*02/07/25 16:40*	*02/08/25 11:46*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1
Polychlorinated biphenyls, Total	0.019	U	0.070	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:40*	*1*
DCB Decachlorobiphenyl	*44*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:40*	*1*
Tetrachloro-m-xylene	*44*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:40*	*1*
Tetrachloro-m-xylene	*42*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:40*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1

Client Sample ID: 2A-08-CS-8

Date Collected: 01/27/25 10:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-7

Matrix: Solid
Percent Solids: 95.6

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total EPH	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:33	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:33	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:33	1
C21-C40 Aliphatics	7.3	U	7.3	7.3	mg/Kg	☼	02/07/25 16:17	02/08/25 14:33	1
C16-C21 Aromatics	5.2	U	5.2	5.2	mg/Kg	☼	02/07/25 16:17	02/08/25 14:02	1
C10-C12 Aromatics	2.1	U	2.1	2.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:02	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	02/07/25 16:17	02/08/25 14:02	1
C21-C36 Aromatic	8.3	U	8.3	8.3	mg/Kg	☼	02/07/25 16:17	02/08/25 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:02*	*1*
2-Fluorobiphenyl	*95*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:02*	*1*
2-Bromonaphthalene	*98*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:02*	*1*
1-Chlorooctadecane	*76*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:33*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2480**		19.0	5.2	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Antimony	0.14	U	0.95	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Arsenic	**0.65**	**J**	0.95	0.098	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Barium	**2.1**		1.9	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Cadmium	0.11	U	0.95	0.11	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Calcium	38.7	U	95.1	38.7	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Chromium	**3.3**		1.9	0.86	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Cobalt	**0.24**	**J**	1.9	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Copper	**1.6**	**J**	1.9	0.35	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Iron	**2010**		57.0	19.2	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Lead	**1.4**		0.57	0.19	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Magnesium	**44.3**	**J**	95.1	9.7	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Manganese	**4.6**		3.8	0.38	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Nickel	**0.77**	**J**	1.9	0.45	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Potassium	**70.1**	**J**	95.1	15.4	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Silver	0.085	U	0.38	0.085	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Sodium	43.4	U	95.1	43.4	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Vanadium	**3.9**		1.9	0.20	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1
Zinc	2.9	U	7.6	2.9	mg/Kg	☼	02/08/25 05:41	02/10/25 16:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.017	0.0078	mg/Kg	☼	02/10/25 00:50	02/10/25 04:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	U	0.25	0.14	mg/Kg	☼	02/09/25 13:59	02/09/25 15:33	1

Client Sample ID: 2A-08-CS-8

Lab Sample ID: 460-319357-7

Date Collected: 01/27/25 10:20
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 95.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.4		1.0	1.0	%			02/10/25 07:53	1
Percent Solids (EPA Moisture)	95.6		1.0	1.0	%			02/10/25 07:53	1

Client Sample ID: 2A-09-CS-4

Lab Sample ID: 460-319357-8

Date Collected: 01/27/25 10:30
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U *-	0.00098	0.00023	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00098	0.00021	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,1,2-Trichloroethane	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,1-Dichloroethane	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,1-Dichloroethene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,2,3-Trichlorobenzene	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,2,4-Trichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,2-Dibromo-3-Chloropropane	0.00045	U *+	0.00098	0.00045	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,2-Dibromoethane	0.00018	U	0.00098	0.00018	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,2-Dichlorobenzene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,2-Dichloroethane	0.00029	U	0.00098	0.00029	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,2-Dichloropropane	0.00041	U	0.00098	0.00041	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,3-Dichlorobenzene	0.00036	U	0.00098	0.00036	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
1,4-Dichlorobenzene	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
2-Butanone (MEK)	0.00036	U	0.0049	0.00036	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
2-Hexanone	0.0017	U *-	0.0049	0.0017	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
4-Methyl-2-pentanone (MIBK)	0.0015	U *-	0.0049	0.0015	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Acetone	0.0056	U	0.0059	0.0056	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Benzene	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Bromodichloromethane	0.00025	U	0.00098	0.00025	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Bromoform	0.00042	U	0.00098	0.00042	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Bromomethane	0.00098	U	0.0020	0.00098	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Carbon disulfide	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Carbon tetrachloride	0.00038	U	0.00098	0.00038	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Chlorobenzene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Chlorobromomethane	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Chloroethane	0.00051	U	0.00098	0.00051	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Chloroform	0.00095	U	0.00098	0.00095	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Chloromethane	0.00043	U	0.00098	0.00043	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
cis-1,2-Dichloroethene	0.00035	U	0.00098	0.00035	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
cis-1,3-Dichloropropene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Cyclohexane	0.00022	U	0.00098	0.00022	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Dibromochloromethane	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Dichlorodifluoromethane	0.00033	U	0.00098	0.00033	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Ethylbenzene	0.00020	U	0.00098	0.00020	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Isopropylbenzene	0.00028	U	0.00098	0.00028	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Methyl acetate	0.0042	U	0.0049	0.0042	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Methyl tert-butyl ether	0.00050	U	0.00098	0.00050	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Methylcyclohexane	0.00049	U	0.00098	0.00049	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1

Client Sample ID: 2A-09-CS-4

Date Collected: 01/27/25 10:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-8

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00017	U	0.00098	0.00017	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
o-Xylene	0.00019	U	0.00098	0.00019	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Styrene	0.00027	U	0.00098	0.00027	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Tetrachloroethene	0.00030	U	0.00098	0.00030	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Toluene	0.00023	U	0.00098	0.00023	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
trans-1,2-Dichloroethene	0.00024	U	0.00098	0.00024	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
trans-1,3-Dichloropropene	0.00026	U	0.00098	0.00026	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Trichloroethene	0.00031	U	0.00098	0.00031	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Trichlorofluoromethane	0.00040	U	0.00098	0.00040	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1
Vinyl chloride	0.00054	U	0.00098	0.00054	mg/Kg	☼	01/27/25 18:26	01/30/25 15:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1R-.alpha.-Pinene	*31*	*J N*	*ug/Kg*	☼	*9.92*	*7785-70-8*	*01/27/25 18:26*	*01/30/25 15:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 138*	*01/27/25 18:26*	*01/30/25 15:44*	*1*
4-Bromofluorobenzene	*95*		*71 - 128*	*01/27/25 18:26*	*01/30/25 15:44*	*1*
Dibromofluoromethane (Surr)	*113*		*50 - 150*	*01/27/25 18:26*	*01/30/25 15:44*	*1*
Toluene-d8 (Surr)	*84*		*71 - 126*	*01/27/25 18:26*	*01/30/25 15:44*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1

Client Sample ID: 2A-09-CS-4
Date Collected: 01/27/25 10:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-8
Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/29/25 09:43	01/29/25 16:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.77*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/29/25 09:43*	*01/29/25 16:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*24 - 137*	*01/29/25 09:43*	*01/29/25 16:27*	*1*

Client Sample ID: 2A-09-CS-4

Date Collected: 01/27/25 10:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-8

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*102*		*38 - 128*	*01/29/25 09:43*	*01/29/25 16:27*	*1*
2-Fluorophenol (Surr)	*93*		*31 - 133*	*01/29/25 09:43*	*01/29/25 16:27*	*1*
Nitrobenzene-d5 (Surr)	*94*		*31 - 120*	*01/29/25 09:43*	*01/29/25 16:27*	*1*
Phenol-d5 (Surr)	*92*		*35 - 132*	*01/29/25 09:43*	*01/29/25 16:27*	*1*
Terphenyl-d14 (Surr)	*106*		*44 - 147*	*01/29/25 09:43*	*01/29/25 16:27*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg	☼	01/30/25 10:19	01/31/25 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*125*		*17 - 150*	*01/30/25 10:19*	*01/31/25 05:09*	*1*
DCB Decachlorobiphenyl	*118*		*17 - 150*	*01/30/25 10:19*	*01/31/25 05:09*	*1*
Tetrachloro-m-xylene	*106*		*21 - 150*	*01/30/25 10:19*	*01/31/25 05:09*	*1*
Tetrachloro-m-xylene	*104*		*21 - 150*	*01/30/25 10:19*	*01/31/25 05:09*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U *1	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Aroclor 1260	0.018	U *+ *1	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1
Polychlorinated biphenyls, Total	0.018	U *1	0.067	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:44*	*1*

Client Sample ID: 2A-09-CS-4

Date Collected: 01/27/25 10:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-8

Matrix: Solid
Percent Solids: 99.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:44*	*1*
Tetrachloro-m-xylene	*110*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:44*	*1*
Tetrachloro-m-xylene	*108*		*20 - 150*	*01/30/25 10:13*	*01/30/25 18:44*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:22	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:22	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:22	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:22	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:22	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:22	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:22	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:22*	*1*
2-Fluorobiphenyl	*93*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:22*	*1*
2-Bromonaphthalene	*87*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:22*	*1*
1-Chlorooctadecane	*84*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:22*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3240**		17.9	4.9	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Antimony	0.13	U	0.90	0.13	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Arsenic	**0.82**	**J**	0.90	0.092	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Barium	**2.6**		1.8	0.13	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Beryllium	0.051	U	0.36	0.051	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Cadmium	0.10	U	0.90	0.10	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Calcium	36.5	U	89.7	36.5	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Chromium	**4.3**		1.8	0.81	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Cobalt	**0.23**	**J**	1.8	0.13	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Copper	**1.7**	**J**	1.8	0.33	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Iron	**2900**		53.8	18.1	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Lead	**2.0**		0.54	0.18	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Magnesium	**70.7**	**J**	89.7	9.1	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Manganese	**4.4**		3.6	0.36	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Nickel	**1.0**	**J**	1.8	0.42	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Potassium	**75.3**	**J**	89.7	14.5	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Selenium	0.11	U	1.1	0.11	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Silver	0.080	U	0.36	0.080	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Sodium	41.0	U	89.7	41.0	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Thallium	0.037	U	0.36	0.037	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1
Vanadium	**5.5**		1.8	0.18	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1

Client Sample ID: 2A-09-CS-4

Lab Sample ID: 460-319357-8

Date Collected: 01/27/25 10:30
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 99.6

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.7	U	7.2	2.7	mg/Kg	☼	01/30/25 07:39	01/31/25 14:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0077	U	0.016	0.0077	mg/Kg	☼	01/29/25 01:05	01/29/25 05:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.22	0.12	mg/Kg	☼	01/31/25 07:50	01/31/25 12:27	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 16:39	1
Percent Solids (EPA Moisture)	**99.6**		1.0	1.0	%			01/27/25 16:39	1

Client Sample ID: 2A-09-CS-8

Lab Sample ID: 460-319357-9

Date Collected: 01/27/25 10:40
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 98.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U *-	0.00099	0.00023	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.00099	0.00021	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.00099	0.00030	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,1,2-Trichloroethane	0.00018	U	0.00099	0.00018	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,1-Dichloroethane	0.00020	U	0.00099	0.00020	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,1-Dichloroethene	0.00022	U	0.00099	0.00022	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,2,3-Trichlorobenzene	0.00018	U	0.00099	0.00018	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,2,4-Trichlorobenzene	0.00036	U	0.00099	0.00036	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,2-Dibromo-3-Chloropropane	0.00046	U *+	0.00099	0.00046	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,2-Dibromoethane	0.00018	U	0.00099	0.00018	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,2-Dichlorobenzene	0.00036	U	0.00099	0.00036	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,2-Dichloroethane	0.00029	U	0.00099	0.00029	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,2-Dichloropropane	0.00042	U	0.00099	0.00042	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,3-Dichlorobenzene	0.00036	U	0.00099	0.00036	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
1,4-Dichlorobenzene	0.00022	U	0.00099	0.00022	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
2-Hexanone	0.0017	U *-	0.0050	0.0017	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
4-Methyl-2-pentanone (MIBK)	0.0015	U *-	0.0050	0.0015	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Benzene	0.00026	U	0.00099	0.00026	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Bromodichloromethane	0.00026	U	0.00099	0.00026	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Bromoform	0.00042	U	0.00099	0.00042	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Bromomethane	0.00099	U	0.0020	0.00099	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Carbon disulfide	0.00026	U	0.00099	0.00026	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Carbon tetrachloride	0.00038	U	0.00099	0.00038	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Chlorobenzene	0.00018	U	0.00099	0.00018	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Chlorobromomethane	0.00028	U	0.00099	0.00028	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Chloroethane	0.00052	U	0.00099	0.00052	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Chloroform	0.00096	U	0.00099	0.00096	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Chloromethane	0.00043	U	0.00099	0.00043	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
cis-1,2-Dichloroethene	0.00036	U	0.00099	0.00036	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
cis-1,3-Dichloropropene	0.00027	U	0.00099	0.00027	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1

Client Sample ID: 2A-09-CS-8
Date Collected: 01/27/25 10:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-9
Matrix: Solid
Percent Solids: 98.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00022	U	0.00099	0.00022	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Dibromochloromethane	0.00019	U	0.00099	0.00019	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Dichlorodifluoromethane	0.00034	U	0.00099	0.00034	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Ethylbenzene	0.00020	U	0.00099	0.00020	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Isopropylbenzene	0.00028	U	0.00099	0.00028	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Methyl tert-butyl ether	0.00051	U	0.00099	0.00051	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Methylcyclohexane	0.00050	U	0.00099	0.00050	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
m-Xylene & p-Xylene	0.00017	U	0.00099	0.00017	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
o-Xylene	0.00019	U	0.00099	0.00019	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Styrene	0.00028	U	0.00099	0.00028	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Tetrachloroethene	0.00030	U	0.00099	0.00030	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Toluene	0.00023	U	0.00099	0.00023	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
trans-1,2-Dichloroethene	0.00024	U	0.00099	0.00024	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
trans-1,3-Dichloropropene	0.00026	U	0.00099	0.00026	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Trichloroethene	0.00032	U	0.00099	0.00032	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Trichlorofluoromethane	0.00040	U	0.00099	0.00040	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1
Vinyl chloride	0.00054	U	0.00099	0.00054	mg/Kg	☼	01/27/25 18:27	01/30/25 16:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/27/25 18:27*	*01/30/25 16:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*65 - 138*	*01/27/25 18:27*	*01/30/25 16:07*	*1*
4-Bromofluorobenzene	*92*		*71 - 128*	*01/27/25 18:27*	*01/30/25 16:07*	*1*
Dibromofluoromethane (Surr)	*92*		*50 - 150*	*01/27/25 18:27*	*01/30/25 16:07*	*1*
Toluene-d8 (Surr)	*84*		*71 - 126*	*01/27/25 18:27*	*01/30/25 16:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2,4-Dinitrotoluene	0.036	U	0.068	0.036	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2,6-Dinitrotoluene	0.024	U	0.068	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2-Methylnaphthalene	0.0094	U	0.33	0.0094	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
2-Nitrophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1

Client Sample ID: 2A-09-CS-8
Date Collected: 01/27/25 10:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-9
Matrix: Solid
Percent Solids: 98.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.051	U	0.13	0.051	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
4-Nitrophenol	0.055	U	0.68	0.055	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Acenaphthylene	0.0096	U	0.33	0.0096	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Benzo[b]fluoranthene	0.0087	U	0.033	0.0087	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Benzo[g,h,i]perylene	0.0099	U	0.33	0.0099	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Benzo[k]fluoranthene	0.0066	U	0.033	0.0066	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Fluorene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Hexachlorobutadiene	0.0071	U	0.068	0.0071	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Isophorone	0.097	U	0.13	0.097	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Nitrobenzene	0.019	U	0.033	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
N-Nitrosodiphenylamine	0.028	U	0.33	0.028	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1

Client Sample ID: 2A-09-CS-8

Date Collected: 01/27/25 10:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-9

Matrix: Solid
Percent Solids: 98.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.069	U	0.27	0.069	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/29/25 09:43	01/29/25 16:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.93*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/29/25 09:43*	*01/29/25 16:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*24 - 137*	*01/29/25 09:43*	*01/29/25 16:46*	*1*
2-Fluorobiphenyl	*90*		*38 - 128*	*01/29/25 09:43*	*01/29/25 16:46*	*1*
2-Fluorophenol (Surr)	*84*		*31 - 133*	*01/29/25 09:43*	*01/29/25 16:46*	*1*
Nitrobenzene-d5 (Surr)	*87*		*31 - 120*	*01/29/25 09:43*	*01/29/25 16:46*	*1*
Phenol-d5 (Surr)	*84*		*35 - 132*	*01/29/25 09:43*	*01/29/25 16:46*	*1*
Terphenyl-d14 (Surr)	*93*		*44 - 147*	*01/29/25 09:43*	*01/29/25 16:46*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
gamma-BHC (Lindane)	0.00063	U	0.0020	0.00063	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/30/25 10:19	01/31/25 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*17 - 150*	*01/30/25 10:19*	*01/31/25 05:22*	*1*
DCB Decachlorobiphenyl	*126*		*17 - 150*	*01/30/25 10:19*	*01/31/25 05:22*	*1*
Tetrachloro-m-xylene	*107*		*21 - 150*	*01/30/25 10:19*	*01/31/25 05:22*	*1*
Tetrachloro-m-xylene	*106*		*21 - 150*	*01/30/25 10:19*	*01/31/25 05:22*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1

Client Sample ID: 2A-09-CS-8

Date Collected: 01/27/25 10:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-9

Matrix: Solid
Percent Solids: 98.8

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1
Aroclor 1260	0.018	U *+ *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1
Polychlorinated biphenyls, Total	0.018	U *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:00*	*1*
DCB Decachlorobiphenyl	*113*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:00*	*1*
Tetrachloro-m-xylene	*110*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:00*	*1*
Tetrachloro-m-xylene	*107*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:00*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:37	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:37	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:37	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:37	1
C16-C21 Aromatics	5.1	U	5.1	5.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:37	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:37	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/31/25 00:37	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:37*	*1*
2-Fluorobiphenyl	*85*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:37*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:37*	*1*
1-Chlorooctadecane	*72*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:37*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4540**		19.1	5.2	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Antimony	0.14	U	0.96	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Arsenic	**0.96**		0.96	0.098	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Barium	**3.3**		1.9	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Beryllium	0.054	U	0.38	0.054	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Cadmium	0.11	U	0.96	0.11	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Calcium	**42.9**	**J**	95.5	38.9	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Chromium	**6.2**		1.9	0.87	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Cobalt	**0.28**	**J**	1.9	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Copper	**2.3**		1.9	0.35	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Iron	**3720**		57.3	19.3	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Lead	**2.4**		0.57	0.19	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Magnesium	**93.6**	**J**	95.5	9.7	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1

Client Sample ID: 2A-09-CS-8

Lab Sample ID: 460-319357-9

Date Collected: 01/27/25 10:40
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 98.8

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**4.5**		3.8	0.38	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Nickel	**1.3**	**J**	1.9	0.45	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Potassium	**89.6**	**J**	95.5	15.5	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Selenium	0.12	U	1.2	0.12	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Silver	0.085	U	0.38	0.085	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Sodium	43.7	U	95.5	43.7	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Thallium	0.039	U	0.38	0.039	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Vanadium	**7.1**		1.9	0.20	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1
Zinc	2.9	U	7.6	2.9	mg/Kg	☼	01/30/25 07:39	01/31/25 14:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0076	U	0.016	0.0076	mg/Kg	☼	01/29/25 01:05	01/29/25 05:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.12	U	0.23	0.12	mg/Kg	☼	01/31/25 07:50	01/31/25 12:28	1
Percent Moisture (EPA Moisture)	**1.2**		1.0	1.0	%			01/27/25 16:39	1
Percent Solids (EPA Moisture)	**98.8**		1.0	1.0	%			01/27/25 16:39	1

Client Sample ID: 2A-01-TS

Lab Sample ID: 460-319357-10

Date Collected: 01/27/25 11:00
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 59.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00060	U	0.0026	0.00060	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,1,2,2-Tetrachloroethane	0.00055	U	0.0026	0.00055	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00077	U	0.0026	0.00077	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,1,2-Trichloroethane	0.00046	U	0.0026	0.00046	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,1-Dichloroethane	0.00053	U	0.0026	0.00053	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,1-Dichloroethene	0.00058	U	0.0026	0.00058	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,2,3-Trichlorobenzene	0.00047	U	0.0026	0.00047	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,2,4-Trichlorobenzene	0.00092	U	0.0026	0.00092	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,2-Dibromo-3-Chloropropane	0.0012	U	0.0026	0.0012	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,2-Dibromoethane	0.00046	U	0.0026	0.00046	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,2-Dichlorobenzene	0.00093	U	0.0026	0.00093	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,2-Dichloroethane	0.00076	U	0.0026	0.00076	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,2-Dichloropropane	0.0011	U	0.0026	0.0011	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,3-Dichlorobenzene	0.00094	U	0.0026	0.00094	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
1,4-Dichlorobenzene	0.00058	U	0.0026	0.00058	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
2-Butanone (MEK)	**0.0050**	**J**	0.013	0.00095	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
2-Hexanone	0.0044	U	0.013	0.0044	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
4-Methyl-2-pentanone (MIBK)	0.0040	U	0.013	0.0040	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Acetone	**0.19**		0.015	0.015	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Benzene	0.00066	U	0.0026	0.00066	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Bromodichloromethane	0.00066	U	0.0026	0.00066	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Bromoform	0.0011	U	0.0026	0.0011	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Bromomethane	0.0026	U	0.0051	0.0026	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Carbon disulfide	0.00068	U	0.0026	0.00068	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1

Client Sample ID: 2A-01-TS
Date Collected: 01/27/25 11:00
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-10
Matrix: Solid
Percent Solids: 59.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.0010	U	0.0026	0.0010	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Chlorobenzene	0.00046	U	0.0026	0.00046	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Chlorobromomethane	0.00072	U	0.0026	0.00072	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Chloroethane	0.0013	U	0.0026	0.0013	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Chloroform	0.0025	U	0.0026	0.0025	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Chloromethane	0.0011	U	0.0026	0.0011	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
cis-1,2-Dichloroethene	0.00092	U	0.0026	0.00092	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
cis-1,3-Dichloropropene	0.00070	U	0.0026	0.00070	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Cyclohexane	0.00057	U	0.0026	0.00057	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Dibromochloromethane	0.00050	U	0.0026	0.00050	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Dichlorodifluoromethane	0.00087	U	0.0026	0.00087	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Ethylbenzene	0.00051	U	0.0026	0.00051	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Isopropylbenzene	0.00073	U	0.0026	0.00073	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Methyl acetate	0.011	U	0.013	0.011	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Methyl tert-butyl ether	0.0013	U	0.0026	0.0013	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Methylcyclohexane	0.0013	U	0.0026	0.0013	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Methylene Chloride	0.0029	U	0.0051	0.0029	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
m-Xylene & p-Xylene	0.00045	U	0.0026	0.00045	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
o-Xylene	0.00050	U	0.0026	0.00050	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Styrene	0.00072	U	0.0026	0.00072	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Tetrachloroethene	0.00079	U	0.0026	0.00079	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Toluene	0.00060	U	0.0026	0.00060	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
trans-1,2-Dichloroethene	0.00063	U	0.0026	0.00063	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
trans-1,3-Dichloropropene	0.00068	U	0.0026	0.00068	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Trichloroethene	0.00083	U	0.0026	0.00083	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Trichlorofluoromethane	0.0010	U	0.0026	0.0010	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1
Vinyl chloride	0.0014	U	0.0026	0.0014	mg/Kg	☼	01/27/25 18:28	02/08/25 05:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
.alpha.-Pinene	*73*	*J N*	*ug/Kg*	☼	*8.70*	*80-56-8*	*01/27/25 18:28*	*02/08/25 05:35*	*1*
Camphene	*27*	*J N*	*ug/Kg*	☼	*8.92*	*79-92-5*	*01/27/25 18:28*	*02/08/25 05:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 138*	*01/27/25 18:28*	*02/08/25 05:35*	*1*
4-Bromofluorobenzene	*115*		*71 - 128*	*01/27/25 18:28*	*02/08/25 05:35*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 150*	*01/27/25 18:28*	*02/08/25 05:35*	*1*
Toluene-d8 (Surr)	*93*		*71 - 126*	*01/27/25 18:28*	*02/08/25 05:35*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.019	U	0.55	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
1,2,4-Trichlorobenzene	0.014	U	0.055	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
1,2-Dichlorobenzene	0.0095	U	0.55	0.0095	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
1,2-Diphenylhydrazine	0.022	U	0.55	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
1,3-Dichlorobenzene	0.017	U	0.55	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
1,4-Dichlorobenzene	0.021	U	0.55	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2,4,5-Trichlorophenol	0.056	U	0.55	0.056	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2,4,6-Trichlorophenol	0.071	U	0.22	0.071	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2,4-Dichlorophenol	0.036	U	0.22	0.036	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2,4-Dimethylphenol	0.066	U	0.55	0.066	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1

Client Sample ID: 2A-01-TS
Date Collected: 01/27/25 11:00
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-10
Matrix: Solid
Percent Solids: 59.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	0.27	U	0.45	0.27	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2,4-Dinitrotoluene	0.060	U	0.11	0.060	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2,6-Dinitrotoluene	0.040	U	0.11	0.040	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2-Chloronaphthalene	0.026	U	0.55	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2-Chlorophenol	0.020	U	0.55	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2-Methylnaphthalene	0.016	U	0.55	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2-Methylphenol	0.021	U	0.55	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2-Nitroaniline	0.042	U	0.55	0.042	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
2-Nitrophenol	0.056	U	0.55	0.056	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
3,3'-Dichlorobenzidine	0.084	U	0.22	0.084	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
3-Nitroaniline	0.13	U	0.55	0.13	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
4,6-Dinitro-2-methylphenol	0.23	U	0.45	0.23	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
4-Bromophenyl phenyl ether	0.022	U	0.55	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
4-Chloro-3-methylphenol	0.031	U	0.55	0.031	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
4-Chloroaniline	0.098	U	0.55	0.098	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
4-Chlorophenyl phenyl ether	0.020	U	0.55	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
4-Methylphenol	0.035	U	0.55	0.035	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
4-Nitroaniline	0.064	U	0.55	0.064	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
4-Nitrophenol	0.090	U	1.1	0.090	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Acenaphthene	0.016	U	0.55	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Acenaphthylene	0.016	U	0.55	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Acetophenone	0.027	U	0.55	0.027	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Anthracene	0.017	U	0.55	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Atrazine	0.033	U	0.22	0.033	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Benzaldehyde	0.092	U	0.55	0.092	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Benzidine	0.12	U	0.55	0.12	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Benzo[a]anthracene	0.042	U	0.055	0.042	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Benzo[a]pyrene	0.015	U	0.055	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Benzo[b]fluoranthene	0.014	U	0.055	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Benzo[g,h,i]perylene	0.016	U	0.55	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Benzo[k]fluoranthene	0.011	U	0.055	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
bis (2-chloroisopropyl) ether	0.033	U	0.55	0.033	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Bis(2-chloroethoxy)methane	0.043	U	0.55	0.043	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Bis(2-chloroethyl)ether	0.019	U	0.055	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Bis(2-ethylhexyl) phthalate	0.029	U	0.55	0.029	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Butyl benzyl phthalate	0.026	U	0.55	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Caprolactam	0.086	U	0.55	0.086	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Carbazole	0.021	U	0.55	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Chrysene	0.023	U	0.55	0.023	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Dibenz(a,h)anthracene	0.024	U	0.055	0.024	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Dibenzofuran	0.019	U	0.55	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Diethyl phthalate	0.018	U	0.55	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Dimethyl phthalate	0.13	U	0.55	0.13	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Di-n-butyl phthalate	0.021	U	0.55	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Di-n-octyl phthalate	0.029	U	0.55	0.029	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Fluoranthene	0.019	U	0.55	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Fluorene	0.016	U	0.55	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Hexachlorobenzene	0.026	U	0.055	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Hexachlorobutadiene	0.012	U	0.11	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1

Client Sample ID: 2A-01-TS

Date Collected: 01/27/25 11:00
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-10

Matrix: Solid
Percent Solids: 59.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	0.049	U	0.55	0.049	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Hexachloroethane	0.019	U	0.055	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Indeno[1,2,3-cd]pyrene	0.022	U	0.055	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Isophorone	0.16	U	0.22	0.16	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Naphthalene	0.0096	U	0.55	0.0096	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Nitrobenzene	0.031	U	0.055	0.031	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
N-Nitrosodimethylamine	0.051	U	0.55	0.051	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
N-Nitrosodi-n-propylamine	0.040	U	0.055	0.040	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
N-Nitrosodiphenylamine	0.046	U	0.55	0.046	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Pentachlorophenol	0.11	U	0.45	0.11	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Phenanthrene	0.023	U	0.55	0.023	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Phenol	0.020	U	0.55	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1
Pyrene	0.014	U	0.55	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 20:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*0.52*	*J*	*mg/Kg*	☼	*8.16*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Octadecanal	*0.53*	*J N*	*mg/Kg*	☼	*9.10*	*638-66-4*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Unknown	*0.51*	*J*	*mg/Kg*	☼	*9.13*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*2.2*	*J N*	*mg/Kg*	☼	*9.22*	*1740-19-8*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
3-Eicosene, (E)-	*0.55*	*J N*	*mg/Kg*	☼	*9.30*	*74685-33-9*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Unknown	*0.89*	*J*	*mg/Kg*	☼	*9.36*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Unknown	*1.6*	*J*	*mg/Kg*	☼	*9.54*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Unknown	*1.0*	*J*	*mg/Kg*	☼	*9.62*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Trichloroacetic acid, hexadecyl ester	*1.7*	*J N*	*mg/Kg*	☼	*9.97*	*74339-54-1*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Tetracosanoic acid	*1.2*	*J N*	*mg/Kg*	☼	*10.21*	*557-59-5*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Tetracosane	*0.74*	*J N*	*mg/Kg*	☼	*10.64*	*646-31-1*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
1,19-Eicosadiene	*0.92*	*J N*	*mg/Kg*	☼	*11.14*	*14811-95-1*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Unknown	*3.8*	*J*	*mg/Kg*	☼	*11.37*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Oxirane, heptadecyl-	*1.3*	*J N*	*mg/Kg*	☼	*11.93*	*67860-04-2*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Unknown	*1.3*	*J*	*mg/Kg*	☼	*12.16*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
9-Tricosene, (Z)-	*1.5*	*J N*	*mg/Kg*	☼	*12.21*	*27519-02-4*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Pregn-5-en-3-ol, 21-bromo-20-methyl-, (3.beta.)-	*6.2*	*J N*	*mg/Kg*	☼	*12.41*	*55103-80-5*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Unknown	*1.4*	*J*	*mg/Kg*	☼	*12.57*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Unknown	*1.3*	*J*	*mg/Kg*	☼	*13.00*	*N/A*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Stigmast-4-en-3-one	*1.8*	*J N*	*mg/Kg*	☼	*13.10*	*1058-61-3*	*02/07/25 19:33*	*02/08/25 20:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*57*		*24 - 137*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
2-Fluorobiphenyl	*57*		*38 - 128*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
2-Fluorophenol (Surr)	*55*		*31 - 133*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Nitrobenzene-d5 (Surr)	*54*		*31 - 120*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Phenol-d5 (Surr)	*54*		*35 - 132*	*02/07/25 19:33*	*02/08/25 20:35*	*1*
Terphenyl-d14 (Surr)	*57*		*44 - 147*	*02/07/25 19:33*	*02/08/25 20:35*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0019	U	0.011	0.0019	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
4,4'-DDE	0.0013	U	0.011	0.0013	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
4,4'-DDT	0.0021	U	0.011	0.0021	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1

Client Sample ID: 2A-01-TS
Date Collected: 01/27/25 11:00
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-10
Matrix: Solid
Percent Solids: 59.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0017	U	0.011	0.0017	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
alpha-BHC	0.0011	U	0.0034	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
beta-BHC	0.0013	U	0.0034	0.0013	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
delta-BHC	0.00069	U	0.0034	0.00069	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Dieldrin	0.0015	U	0.0034	0.0015	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Endosulfan I	0.0017	U	0.011	0.0017	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Endosulfan II	0.0029	U	0.011	0.0029	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Endosulfan sulfate	0.0014	U	0.011	0.0014	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Endrin	0.0016	U	0.011	0.0016	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Endrin aldehyde	0.0027	U	0.011	0.0027	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Endrin ketone	0.0022	U	0.011	0.0022	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
gamma-BHC (Lindane)	0.0010	U	0.0034	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Heptachlor	0.0013	U	0.011	0.0013	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Heptachlor epoxide	0.0017	U	0.011	0.0017	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Methoxychlor	0.0026	U	0.011	0.0026	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Toxaphene	0.041	U	0.11	0.041	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1
Chlordane (n.o.s.)	0.027	U	0.11	0.027	mg/Kg	☼	02/07/25 16:40	02/08/25 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*17 - 150*	*02/07/25 16:40*	*02/08/25 12:01*	*1*
DCB Decachlorobiphenyl	*63*		*17 - 150*	*02/07/25 16:40*	*02/08/25 12:01*	*1*
Tetrachloro-m-xylene	*59*		*21 - 150*	*02/07/25 16:40*	*02/08/25 12:01*	*1*
Tetrachloro-m-xylene	*55*		*21 - 150*	*02/07/25 16:40*	*02/08/25 12:01*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Aroclor 1221	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Aroclor 1232	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Aroclor 1242	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Aroclor 1248	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Aroclor 1254	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Aroclor 1260	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Aroclor-1262	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Aroclor 1268	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1
Polychlorinated biphenyls, Total	0.030	U	0.11	0.030	mg/Kg	☼	02/07/25 16:19	02/08/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:56*	*1*
DCB Decachlorobiphenyl	*60*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:56*	*1*
Tetrachloro-m-xylene	*58*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:56*	*1*
Tetrachloro-m-xylene	*57*		*20 - 150*	*02/07/25 16:19*	*02/08/25 11:56*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-01-TS

Date Collected: 01/27/25 11:00
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-10

Matrix: Solid
Percent Solids: 59.4

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	3.3	U	3.3	3.3	mg/Kg	☼	02/07/25 16:17	02/08/25 14:48	1
C9-C12 Aliphatics	5.0	U	5.0	5.0	mg/Kg	☼	02/07/25 16:17	02/08/25 14:48	1
C16-C21 Aliphatics	3.3	U	3.3	3.3	mg/Kg	☼	02/07/25 16:17	02/08/25 14:48	1
C21-C40 Aliphatics	12	U	12	12	mg/Kg	☼	02/07/25 16:17	02/08/25 14:48	1
C16-C21 Aromatics	8.4	U	8.4	8.4	mg/Kg	☼	02/07/25 16:17	02/08/25 14:17	1
C10-C12 Aromatics	3.3	U	3.3	3.3	mg/Kg	☼	02/07/25 16:17	02/08/25 14:17	1
C12-C16 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	02/07/25 16:17	02/08/25 14:17	1
C21-C36 Aromatic	13	U	13	13	mg/Kg	☼	02/07/25 16:17	02/08/25 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:17*	*1*
2-Fluorobiphenyl	*100*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:17*	*1*
2-Bromonaphthalene	*101*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:17*	*1*
1-Chlorooctadecane	*70*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:48*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**881**		31.8	8.7	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Antimony	**0.31**	**J**	1.6	0.23	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Arsenic	**0.57**	**J**	1.6	0.16	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Barium	**8.2**		3.2	0.23	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Beryllium	0.091	U	0.64	0.091	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Cadmium	0.18	U	1.6	0.18	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Calcium	**1080**		159	64.7	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Chromium	**1.8**	**J**	3.2	1.4	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Cobalt	0.24	U	3.2	0.24	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Copper	**4.7**		3.2	0.58	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Iron	**998**		95.3	32.1	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Lead	**14.9**		0.95	0.32	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Magnesium	**271**		159	16.2	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Manganese	**8.2**		6.4	0.64	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Nickel	**2.0**	**J**	3.2	0.75	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Potassium	**188**		159	25.7	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Selenium	**0.27**	**J**	2.0	0.20	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Silver	0.14	U	0.64	0.14	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Sodium	72.6	U	159	72.6	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Thallium	0.065	U	0.64	0.065	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Vanadium	**3.2**		3.2	0.33	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1
Zinc	**15.9**		12.7	4.8	mg/Kg	☼	02/08/25 05:41	02/10/25 16:41	1

Method: SW846 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/11/25 15:00	02/11/25 16:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.029	0.013	mg/Kg	☼	02/10/25 00:50	02/10/25 04:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.27**	**J**	0.40	0.22	mg/Kg	☼	02/09/25 13:59	02/09/25 15:27	1

Eurofins Edison

Client Sample ID: 2A-01-TS

Date Collected: 01/27/25 11:00
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-10

Matrix: Solid
Percent Solids: 59.4

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	40.6		1.0	1.0	%			02/10/25 07:53	1
Percent Solids (EPA Moisture)	59.4		1.0	1.0	%			02/10/25 07:53	1

Client Sample ID: 2A-01-CS

Date Collected: 01/27/25 11:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-11

Matrix: Solid
Percent Solids: 91.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,2-Dibromo-3-Chloropropane	0.00050	U	0.0011	0.00050	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,2-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,2-Dichloropropane	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
2-Butanone (MEK)	0.00040	U	0.0054	0.00040	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
2-Hexanone	0.0019	U	0.0054	0.0019	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
4-Methyl-2-pentanone (MIBK)	0.0017	U	0.0054	0.0017	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Acetone	0.039		0.0065	0.0062	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Bromodichloromethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Bromoform	0.00046	U	0.0011	0.00046	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Carbon disulfide	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Carbon tetrachloride	0.00042	U	0.0011	0.00042	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Chlorobromomethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Chloroethane	0.00056	U	0.0011	0.00056	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Chloromethane	0.00047	U	0.0011	0.00047	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Ethylbenzene	0.00022	U	0.0011	0.00022	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Isopropylbenzene	0.00031	U	0.0011	0.00031	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Methyl acetate	0.0047	U	0.0054	0.0047	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Methyl tert-butyl ether	0.00055	U	0.0011	0.00055	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Methylcyclohexane	0.00054	U	0.0011	0.00054	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Methylene Chloride	0.0012	U	0.0022	0.0012	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1

Client Sample ID: 2A-01-CS
Date Collected: 01/27/25 11:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-11
Matrix: Solid
Percent Solids: 91.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Tetrachloroethene	0.00033	U	0.0011	0.00033	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Trichlorofluoromethane	0.00044	U	0.0011	0.00044	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1
Vinyl chloride	0.00059	U	0.0011	0.00059	mg/Kg	☼	01/27/25 18:29	02/08/25 06:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*8.7*	*J*	*ug/Kg*	☼	*8.00*	*N/A*	*01/27/25 18:29*	*02/08/25 06:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*65 - 138*	*01/27/25 18:29*	*02/08/25 06:00*	*1*
4-Bromofluorobenzene	*101*		*71 - 128*	*01/27/25 18:29*	*02/08/25 06:00*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 150*	*01/27/25 18:29*	*02/08/25 06:00*	*1*
Toluene-d8 (Surr)	*87*		*71 - 126*	*01/27/25 18:29*	*02/08/25 06:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.013	U	0.36	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
1,2,4-Trichlorobenzene	0.0093	U	0.036	0.0093	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
1,2-Dichlorobenzene	0.0062	U	0.36	0.0062	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
1,2-Diphenylhydrazine	0.014	U	0.36	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
1,3-Dichlorobenzene	0.011	U	0.36	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
1,4-Dichlorobenzene	0.014	U	0.36	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2,4,5-Trichlorophenol	0.037	U	0.36	0.037	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2,4,6-Trichlorophenol	0.046	U	0.15	0.046	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2,4-Dichlorophenol	0.023	U	0.15	0.023	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2,4-Dimethylphenol	0.043	U	0.36	0.043	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2,4-Dinitrophenol	0.18	U	0.29	0.18	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2,4-Dinitrotoluene	0.039	U	0.073	0.039	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2,6-Dinitrotoluene	0.026	U	0.073	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2-Chloronaphthalene	0.017	U	0.36	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2-Chlorophenol	0.013	U	0.36	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2-Methylnaphthalene	0.010	U	0.36	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2-Methylphenol	0.013	U	0.36	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2-Nitroaniline	0.027	U	0.36	0.027	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
2-Nitrophenol	0.036	U	0.36	0.036	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
3,3'-Dichlorobenzidine	0.054	U	0.15	0.054	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
3-Nitroaniline	0.086	U	0.36	0.086	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
4,6-Dinitro-2-methylphenol	0.15	U	0.29	0.15	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
4-Bromophenyl phenyl ether	0.014	U	0.36	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
4-Chloro-3-methylphenol	0.020	U	0.36	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
4-Chloroaniline	0.064	U	0.36	0.064	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
4-Chlorophenyl phenyl ether	0.013	U	0.36	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
4-Methylphenol	0.023	U	0.36	0.023	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
4-Nitroaniline	0.041	U	0.36	0.041	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1

Client Sample ID: 2A-01-CS
Date Collected: 01/27/25 11:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-11
Matrix: Solid
Percent Solids: 91.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	0.059	U	0.73	0.059	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Acenaphthene	0.010	U	0.36	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Acenaphthylene	0.010	U	0.36	0.010	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Acetophenone	0.018	U	0.36	0.018	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Anthracene	0.011	U	0.36	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Atrazine	0.021	U	0.15	0.021	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Benzaldehyde	0.060	U	0.36	0.060	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Benzidine	0.076	U	0.36	0.076	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Benzo[a]anthracene	0.027	U	0.036	0.027	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Benzo[a]pyrene	0.0096	U	0.036	0.0096	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Benzo[b]fluoranthene	0.0093	U	0.036	0.0093	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Benzo[g,h,i]perylene	0.011	U	0.36	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Benzo[k]fluoranthene	0.0071	U	0.036	0.0071	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
bis (2-chloroisopropyl) ether	0.022	U	0.36	0.022	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Bis(2-chloroethoxy)methane	0.028	U	0.36	0.028	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Bis(2-chloroethyl)ether	0.013	U	0.036	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Bis(2-ethylhexyl) phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Butyl benzyl phthalate	0.017	U	0.36	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Caprolactam	0.056	U	0.36	0.056	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Carbazole	0.014	U	0.36	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Chrysene	0.015	U	0.36	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Dibenz(a,h)anthracene	0.016	U	0.036	0.016	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Dibenzofuran	0.012	U	0.36	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Diethyl phthalate	0.012	U	0.36	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Dimethyl phthalate	0.082	U	0.36	0.082	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Di-n-butyl phthalate	0.014	U	0.36	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Di-n-octyl phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Fluoranthene	0.013	U	0.36	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Fluorene	0.011	U	0.36	0.011	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Hexachlorobenzene	0.017	U	0.036	0.017	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Hexachlorobutadiene	0.0077	U	0.073	0.0077	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Hexachlorocyclopentadiene	0.032	U	0.36	0.032	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Hexachloroethane	0.012	U	0.036	0.012	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Indeno[1,2,3-cd]pyrene	0.014	U	0.036	0.014	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Isophorone	0.10	U	0.15	0.10	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Naphthalene	0.0062	U	0.36	0.0062	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Nitrobenzene	0.020	U	0.036	0.020	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
N-Nitrosodimethylamine	0.033	U	0.36	0.033	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
N-Nitrosodi-n-propylamine	0.026	U	0.036	0.026	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
N-Nitrosodiphenylamine	0.030	U	0.36	0.030	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Pentachlorophenol	0.074	U	0.29	0.074	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Phenanthrene	0.015	U	0.36	0.015	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Phenol	0.013	U	0.36	0.013	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1
Pyrene	0.0090	U	0.36	0.0090	mg/Kg	☼	02/07/25 19:33	02/08/25 17:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/07/25 19:33*	*02/08/25 17:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*24 - 137*	*02/07/25 19:33*	*02/08/25 17:24*	*1*

Client Sample ID: 2A-01-CS
Date Collected: 01/27/25 11:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-11
Matrix: Solid
Percent Solids: 91.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		38 - 128	02/07/25 19:33	02/08/25 17:24	1
2-Fluorophenol (Surr)	70		31 - 133	02/07/25 19:33	02/08/25 17:24	1
Nitrobenzene-d5 (Surr)	69		31 - 120	02/07/25 19:33	02/08/25 17:24	1
Phenol-d5 (Surr)	69		35 - 132	02/07/25 19:33	02/08/25 17:24	1
Terphenyl-d14 (Surr)	71		44 - 147	02/07/25 19:33	02/08/25 17:24	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0073	0.0012	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
4,4'-DDE	0.00086	U	0.0073	0.00086	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
4,4'-DDT	0.0013	U	0.0073	0.0013	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Aldrin	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
alpha-BHC	0.00074	U	0.0022	0.00074	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
beta-BHC	0.00082	U	0.0022	0.00082	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
delta-BHC	0.00045	U	0.0022	0.00045	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Dieldrin	0.00095	U	0.0022	0.00095	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Endosulfan I	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Endosulfan II	0.0019	U	0.0073	0.0019	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Endosulfan sulfate	0.00091	U	0.0073	0.00091	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Endrin	0.0010	U	0.0073	0.0010	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Endrin aldehyde	0.0017	U	0.0073	0.0017	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Endrin ketone	0.0014	U	0.0073	0.0014	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
gamma-BHC (Lindane)	0.00067	U	0.0022	0.00067	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Heptachlor	0.00086	U	0.0073	0.00086	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Heptachlor epoxide	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Methoxychlor	0.0017	U	0.0073	0.0017	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Toxaphene	0.026	U	0.073	0.026	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1
Chlordane (n.o.s.)	0.018	U	0.073	0.018	mg/Kg	☼	02/07/25 16:40	02/08/25 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	115		17 - 150	02/07/25 16:40	02/08/25 12:17	1
DCB Decachlorobiphenyl	116		17 - 150	02/07/25 16:40	02/08/25 12:17	1
Tetrachloro-m-xylene	107		21 - 150	02/07/25 16:40	02/08/25 12:17	1
Tetrachloro-m-xylene	99		21 - 150	02/07/25 16:40	02/08/25 12:17	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Aroclor 1221	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Aroclor 1232	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Aroclor 1242	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Aroclor 1248	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Aroclor 1254	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Aroclor 1260	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Aroclor-1262	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Aroclor 1268	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1
Polychlorinated biphenyls, Total	0.019	U	0.073	0.019	mg/Kg	☼	02/07/25 16:19	02/08/25 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	116		20 - 150	02/07/25 16:19	02/08/25 12:13	1

Client Sample ID: 2A-01-CS

Date Collected: 01/27/25 11:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-11

Matrix: Solid
Percent Solids: 91.5

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*119*		*20 - 150*	*02/07/25 16:19*	*02/08/25 12:13*	*1*
Tetrachloro-m-xylene	*105*		*20 - 150*	*02/07/25 16:19*	*02/08/25 12:13*	*1*
Tetrachloro-m-xylene	*106*		*20 - 150*	*02/07/25 16:19*	*02/08/25 12:13*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			02/09/25 09:56	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.2	U	2.2	2.2	mg/Kg	☼	02/07/25 16:17	02/08/25 15:04	1
C9-C12 Aliphatics	3.3	U	3.3	3.3	mg/Kg	☼	02/07/25 16:17	02/08/25 15:04	1
C16-C21 Aliphatics	2.2	U	2.2	2.2	mg/Kg	☼	02/07/25 16:17	02/08/25 15:04	1
C21-C40 Aliphatics	7.6	U	7.6	7.6	mg/Kg	☼	02/07/25 16:17	02/08/25 15:04	1
C16-C21 Aromatics	5.5	U	5.5	5.5	mg/Kg	☼	02/07/25 16:17	02/08/25 14:33	1
C10-C12 Aromatics	2.2	U	2.2	2.2	mg/Kg	☼	02/07/25 16:17	02/08/25 14:33	1
C12-C16 Aromatics	3.3	U	3.3	3.3	mg/Kg	☼	02/07/25 16:17	02/08/25 14:33	1
C21-C36 Aromatic	8.7	U	8.7	8.7	mg/Kg	☼	02/07/25 16:17	02/08/25 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*88*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:33*	*1*
2-Fluorobiphenyl	*93*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:33*	*1*
2-Bromonaphthalene	*94*		*40 - 140*	*02/07/25 16:17*	*02/08/25 14:33*	*1*
1-Chlorooctadecane	*84*		*40 - 140*	*02/07/25 16:17*	*02/08/25 15:04*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11600**		20.2	5.6	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Antimony	0.15	U	1.0	0.15	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Arsenic	**2.7**		1.0	0.10	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Barium	**9.7**		2.0	0.15	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Beryllium	**0.10**	**J**	0.40	0.058	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Cadmium	0.11	U	1.0	0.11	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Calcium	41.2	U	101	41.2	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Chromium	**14.0**		2.0	0.92	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Cobalt	**1.2**	**J**	2.0	0.15	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Copper	**6.3**		2.0	0.37	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Iron	**8390**		60.7	20.4	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Lead	**5.9**		0.61	0.20	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Magnesium	**144**		101	10.3	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Manganese	**16.6**		4.0	0.41	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Nickel	**2.9**		2.0	0.48	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Potassium	**201**		101	16.4	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Selenium	**0.15**	**J**	1.3	0.13	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Silver	0.090	U	0.40	0.090	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Sodium	46.2	U	101	46.2	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Thallium	**0.054**	**J**	0.40	0.041	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1
Vanadium	**16.7**		2.0	0.21	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1

Client Sample ID: 2A-01-CS

Lab Sample ID: 460-319357-11
Date Collected: 01/27/25 11:10
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 91.5

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**3.5**	**J**	8.1	3.1	mg/Kg	☼	02/08/25 05:41	02/10/25 16:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.090**		0.018	0.0086	mg/Kg	☼	02/10/25 00:50	02/10/25 04:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.14	U	0.26	0.14	mg/Kg	☼	02/09/25 13:59	02/09/25 15:34	1
Percent Moisture (EPA Moisture)	**8.5**		1.0	1.0	%			02/10/25 07:53	1
Percent Solids (EPA Moisture)	**91.5**		1.0	1.0	%			02/10/25 07:53	1

Client Sample ID: 2A-02-TS

Lab Sample ID: 460-319357-12
Date Collected: 01/27/25 11:30
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 95.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00034	U *-	0.0015	0.00034	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,1,2,2-Tetrachloroethane	0.00031	U	0.0015	0.00031	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00044	U	0.0015	0.00044	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,1,2-Trichloroethane	0.00026	U	0.0015	0.00026	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,1-Dichloroethane	0.00030	U	0.0015	0.00030	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,1-Dichloroethene	0.00033	U	0.0015	0.00033	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,2,3-Trichlorobenzene	0.00027	U	0.0015	0.00027	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,2,4-Trichlorobenzene	0.00052	U	0.0015	0.00052	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,2-Dibromo-3-Chloropropane	0.00067	U *+	0.0015	0.00067	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,2-Dibromoethane	0.00026	U	0.0015	0.00026	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,2-Dichlorobenzene	0.00053	U	0.0015	0.00053	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,2-Dichloroethane	0.00043	U	0.0015	0.00043	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,2-Dichloropropane	0.00062	U	0.0015	0.00062	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,3-Dichlorobenzene	0.00054	U	0.0015	0.00054	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
1,4-Dichlorobenzene	0.00033	U	0.0015	0.00033	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
2-Butanone (MEK)	0.00054	U	0.0073	0.00054	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
2-Hexanone	0.0025	U *-	0.0073	0.0025	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
4-Methyl-2-pentanone (MIBK)	0.0023	U *-	0.0073	0.0023	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Acetone	**0.020**		0.0088	0.0084	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Benzene	0.00038	U	0.0015	0.00038	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Bromodichloromethane	0.00038	U	0.0015	0.00038	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Bromoform	0.00062	U	0.0015	0.00062	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Bromomethane	0.0015	U	0.0029	0.0015	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Carbon disulfide	0.00039	U	0.0015	0.00039	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Carbon tetrachloride	0.00057	U	0.0015	0.00057	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Chlorobenzene	0.00026	U	0.0015	0.00026	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Chlorobromomethane	0.00041	U	0.0015	0.00041	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Chloroethane	0.00077	U	0.0015	0.00077	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Chloroform	0.0014	U	0.0015	0.0014	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Chloromethane	0.00064	U	0.0015	0.00064	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
cis-1,2-Dichloroethene	0.00052	U	0.0015	0.00052	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
cis-1,3-Dichloropropene	0.00040	U	0.0015	0.00040	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1

Client Sample ID: 2A-02-TS
Date Collected: 01/27/25 11:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-12
Matrix: Solid
Percent Solids: 95.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00032	U	0.0015	0.00032	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Dibromochloromethane	0.00028	U	0.0015	0.00028	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Dichlorodifluoromethane	0.00050	U	0.0015	0.00050	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Ethylbenzene	0.00029	U	0.0015	0.00029	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Isopropylbenzene	0.00042	U	0.0015	0.00042	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Methyl acetate	0.0063	U	0.0073	0.0063	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Methyl tert-butyl ether	0.00075	U	0.0015	0.00075	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Methylcyclohexane	0.00073	U	0.0015	0.00073	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Methylene Chloride	0.0017	U	0.0029	0.0017	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
m-Xylene & p-Xylene	0.00026	U	0.0015	0.00026	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
o-Xylene	0.00028	U	0.0015	0.00028	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Styrene	0.00041	U	0.0015	0.00041	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Tetrachloroethene	0.00045	U	0.0015	0.00045	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Toluene	0.00034	U	0.0015	0.00034	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
trans-1,2-Dichloroethene	0.00036	U	0.0015	0.00036	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
trans-1,3-Dichloropropene	0.00039	U	0.0015	0.00039	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Trichloroethene	0.00047	U	0.0015	0.00047	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Trichlorofluoromethane	0.00060	U	0.0015	0.00060	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1
Vinyl chloride	0.00080	U	0.0015	0.00080	mg/Kg	☼	01/27/25 18:30	01/30/25 16:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/27/25 18:30*	*01/30/25 16:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*65 - 138*	*01/27/25 18:30*	*01/30/25 16:30*	*1*
4-Bromofluorobenzene	*100*		*71 - 128*	*01/27/25 18:30*	*01/30/25 16:30*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 150*	*01/27/25 18:30*	*01/30/25 16:30*	*1*
Toluene-d8 (Surr)	*87*		*71 - 126*	*01/27/25 18:30*	*01/30/25 16:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.34	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
1,2,4-Trichlorobenzene	0.0089	U	0.034	0.0089	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
1,2-Dichlorobenzene	0.0059	U	0.34	0.0059	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
1,2-Diphenylhydrazine	0.014	U	0.34	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
1,3-Dichlorobenzene	0.010	U	0.34	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
1,4-Dichlorobenzene	0.013	U	0.34	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2,4-Dinitrophenol	0.17	U	0.28	0.17	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2-Methylnaphthalene	0.0097	U	0.34	0.0097	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
2-Nitrophenol	0.035	U	0.34	0.035	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-02-TS
Date Collected: 01/27/25 11:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-12
Matrix: Solid
Percent Solids: 95.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
4,6-Dinitro-2-methylphenol	0.14	U	0.28	0.14	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
4-Methylphenol	0.022	U	0.34	0.022	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
4-Nitroaniline	0.040	U	0.34	0.040	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Acenaphthylene	0.0099	U	0.34	0.0099	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Anthracene	0.011	U	0.34	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Benzidine	0.072	U	0.34	0.072	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Benzo[a]pyrene	**0.012**	**J**	0.034	0.0092	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Benzo[b]fluoranthene	0.0089	U	0.034	0.0089	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Benzo[g,h,i]perylene	0.010	U	0.34	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Benzo[k]fluoranthene	0.0068	U	0.034	0.0068	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
bis (2-chloroisopropyl) ether	0.021	U	0.34	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Caprolactam	0.054	U	0.34	0.054	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Chrysene	0.015	U	0.34	0.015	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Dibenzofuran	0.012	U	0.34	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Fluoranthene	**0.022**	**J**	0.34	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Hexachlorobutadiene	0.0074	U	0.070	0.0074	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Hexachlorocyclopentadiene	0.030	U *+	0.34	0.030	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Naphthalene	0.0060	U	0.34	0.0060	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1

Client Sample ID: 2A-02-TS

Date Collected: 01/27/25 11:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-12

Matrix: Solid
Percent Solids: 95.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Phenanthrene	0.014	U	0.34	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1
Pyrene	**0.024**	**J**	0.34	0.0086	mg/Kg	☼	01/29/25 09:43	01/29/25 20:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.71*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*0.63*	*J*	*mg/Kg*	☼	*2.53*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Tetradecanoic acid	*0.28*	*J N*	*mg/Kg*	☼	*6.82*	*544-63-8*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
n-Hexadecanoic acid	*0.43*	*J N*	*mg/Kg*	☼	*7.58*	*57-10-3*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*0.32*	*J*	*mg/Kg*	☼	*9.15*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
1-Phenanthrenecarboxylic acid, 1,2,3,4,4	*1.9*	*J N*	*mg/Kg*	☼	*9.27*	*1740-19-8*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Cyclohexadecane	*0.47*	*J N*	*mg/Kg*	☼	*9.35*	*295-65-8*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*1.0*	*J*	*mg/Kg*	☼	*9.59*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*0.62*	*J*	*mg/Kg*	☼	*9.67*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*1.3*	*J*	*mg/Kg*	☼	*10.02*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*0.75*	*J*	*mg/Kg*	☼	*10.27*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*0.38*	*J*	*mg/Kg*	☼	*10.50*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Cyclopentadecane	*0.42*	*J N*	*mg/Kg*	☼	*10.72*	*295-48-7*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*2.8*	*J*	*mg/Kg*	☼	*11.44*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
2,2,4a,6a,8a,9,12b,14a-Octamethyl-1,2,3,4,4a,5,6,6a,6b,7,8,8	*1.4*	*J N*	*mg/Kg*	☼	*12.24*	*53013-35-7*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
.beta.-Sitosterol	*4.2*	*J N*	*mg/Kg*	☼	*12.49*	*83-46-5*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*1.5*	*J*	*mg/Kg*	☼	*12.66*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*0.57*	*J*	*mg/Kg*	☼	*12.97*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Unknown	*0.46*	*J*	*mg/Kg*	☼	*13.08*	*N/A*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Androst-4-en-3-one, 17-hydroxy-, (10.alpha.,17.beta.)-	*1.2*	*J N*	*mg/Kg*	☼	*13.19*	*604-39-7*	*01/29/25 09:43*	*01/29/25 20:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*24 - 137*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
2-Fluorobiphenyl	*95*		*38 - 128*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
2-Fluorophenol (Surr)	*88*		*31 - 133*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Nitrobenzene-d5 (Surr)	*88*		*31 - 120*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Phenol-d5 (Surr)	*85*		*35 - 132*	*01/29/25 09:43*	*01/29/25 20:56*	*1*
Terphenyl-d14 (Surr)	*94*		*44 - 147*	*01/29/25 09:43*	*01/29/25 20:56*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0070	0.0012	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
4,4'-DDE	0.00083	U	0.0070	0.00083	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
4,4'-DDT	0.0013	U	0.0070	0.0013	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Endosulfan sulfate	0.00088	U	0.0070	0.00088	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1

Client Sample ID: 2A-02-TS
Date Collected: 01/27/25 11:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-12
Matrix: Solid
Percent Solids: 95.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Endrin aldehyde	0.0017	U	0.0070	0.0017	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Heptachlor	0.00083	U	0.0070	0.00083	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1
Chlordane (n.o.s.)	0.017	U	0.070	0.017	mg/Kg	☼	01/30/25 10:19	01/30/25 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*36*		*17 - 150*	*01/30/25 10:19*	*01/30/25 19:33*	*1*
DCB Decachlorobiphenyl	*38*		*17 - 150*	*01/30/25 10:19*	*01/30/25 19:33*	*1*
Tetrachloro-m-xylene	*36*		*21 - 150*	*01/30/25 10:19*	*01/30/25 19:33*	*1*
Tetrachloro-m-xylene	*31*		*21 - 150*	*01/30/25 10:19*	*01/30/25 19:33*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U *1	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Aroclor 1260	0.019	U *+ *1	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Aroclor-1262	0.019	U	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1
Polychlorinated biphenyls, Total	0.019	U *1	0.070	0.019	mg/Kg	☼	01/30/25 10:13	01/30/25 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:17*	*1*
DCB Decachlorobiphenyl	*79*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:17*	*1*
Tetrachloro-m-xylene	*74*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:17*	*1*
Tetrachloro-m-xylene	*74*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:17*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	**4.4**		2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	**4.4**		2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:53	1
C9-C12 Aliphatics	3.1	U	3.1	3.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:53	1
C16-C21 Aliphatics	2.1	U	2.1	2.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:53	1
C21-C40 Aliphatics	7.3	U	7.3	7.3	mg/Kg	☼	01/30/25 10:45	01/31/25 00:53	1
C16-C21 Aromatics	5.2	U	5.2	5.2	mg/Kg	☼	01/30/25 10:45	01/31/25 00:53	1
C10-C12 Aromatics	**4.4**		2.1	2.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:53	1
C12-C16 Aromatics	3.1	U	3.1	3.1	mg/Kg	☼	01/30/25 10:45	01/31/25 00:53	1
C21-C36 Aromatic	8.4	U	8.4	8.4	mg/Kg	☼	01/30/25 10:45	01/31/25 00:53	1

Client Sample ID: 2A-02-TS

Lab Sample ID: 460-319357-12

Date Collected: 01/27/25 11:30
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 95.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:53*	*1*
2-Fluorobiphenyl	*88*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:53*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:53*	*1*
1-Chlorooctadecane	*82*		*40 - 140*	*01/30/25 10:45*	*01/31/25 00:53*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**388**		19.8	5.4	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Antimony	**0.19**	**J**	0.99	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Arsenic	**0.53**	**J**	0.99	0.10	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Barium	**3.1**		2.0	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Beryllium	0.056	U	0.40	0.056	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Cadmium	0.11	U	0.99	0.11	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Calcium	**100**		98.8	40.2	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Chromium	**1.3**	**J**	2.0	0.90	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Cobalt	0.15	U	2.0	0.15	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Copper	**2.5**		2.0	0.36	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Iron	**671**		59.3	19.9	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Lead	**19.6**		0.59	0.20	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Magnesium	**36.0**	**J**	98.8	10.1	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Manganese	**4.9**		4.0	0.40	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Nickel	**0.66**	**J**	2.0	0.46	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Potassium	**53.1**	**J**	98.8	16.0	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Selenium	**0.14**	**J**	1.2	0.13	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Silver	0.088	U	0.40	0.088	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Sodium	45.1	U	98.8	45.1	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Thallium	0.040	U	0.40	0.040	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Vanadium	**3.6**		2.0	0.20	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1
Zinc	**5.0**	**J**	7.9	3.0	mg/Kg	☼	01/30/25 07:39	01/31/25 14:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.016	0.0076	mg/Kg	☼	01/29/25 01:05	01/29/25 05:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	01/31/25 07:50	01/31/25 12:33	1
Percent Moisture (EPA Moisture)	**4.5**		1.0	1.0	%			01/27/25 16:39	1
Percent Solids (EPA Moisture)	**95.5**		1.0	1.0	%			01/27/25 16:39	1

Client Sample ID: 2A-02-CS

Lab Sample ID: 460-319357-13

Date Collected: 01/27/25 11:40
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U *-	0.0010	0.00023	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1

Client Sample ID: 2A-02-CS
Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-13
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,2-Dibromo-3-Chloropropane	0.00046	U *+	0.0010	0.00046	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,2-Dichloroethane	0.00029	U	0.0010	0.00029	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,3-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
1,4-Dichlorobenzene	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
2-Hexanone	0.0017	U *-	0.0050	0.0017	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
4-Methyl-2-pentanone (MIBK)	0.0015	U *-	0.0050	0.0015	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Bromoform	0.00042	U	0.0010	0.00042	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Carbon disulfide	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Chloromethane	0.00043	U	0.0010	0.00043	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Isopropylbenzene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Tetrachloroethene	0.00030	U	0.0010	0.00030	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
trans-1,2-Dichloroethene	0.00024	U	0.0010	0.00024	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
trans-1,3-Dichloropropene	0.00026	U	0.0010	0.00026	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Trichlorofluoromethane	0.00040	U	0.0010	0.00040	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1
Vinyl chloride	0.00054	U	0.0010	0.00054	mg/Kg	☼	01/27/25 18:31	01/30/25 16:53	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*	☼		*N/A*	*01/27/25 18:31*	*01/30/25 16:53*	*1*

Client Sample ID: 2A-02-CS

Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-13

Matrix: Solid
Percent Solids: 99.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*83*		*65 - 138*	*01/27/25 18:31*	*01/30/25 16:53*	*1*
4-Bromofluorobenzene	*91*		*71 - 128*	*01/27/25 18:31*	*01/30/25 16:53*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 150*	*01/27/25 18:31*	*01/30/25 16:53*	*1*
Toluene-d8 (Surr)	*68*	*S1-*	*71 - 126*	*01/27/25 18:31*	*01/30/25 16:53*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
1,2,4-Trichlorobenzene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
1,2-Dichlorobenzene	0.0057	U	0.33	0.0057	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2,4,6-Trichlorophenol	0.043	U	0.13	0.043	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2,4-Dimethylphenol	0.040	U	0.33	0.040	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Acenaphthene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Anthracene	0.010	U	0.33	0.010	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Atrazine	0.020	U	0.13	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Benzidine	0.070	U	0.33	0.070	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Benzo[a]pyrene	0.0089	U	0.033	0.0089	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1

Client Sample ID: 2A-02-CS

Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-13

Matrix: Solid
Percent Solids: 99.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Caprolactam	0.052	U	0.33	0.052	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Carbazole	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Chrysene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Dimethyl phthalate	0.076	U	0.33	0.076	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Di-n-butyl phthalate	0.013	U	0.33	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Hexachlorobutadiene	0.0071	U	0.067	0.0071	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Hexachlorocyclopentadiene	0.029	U *+	0.33	0.029	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Isophorone	0.096	U	0.13	0.096	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Naphthalene	0.0058	U	0.33	0.0058	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Phenol	0.012	U	0.33	0.012	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1
Pyrene	0.0083	U	0.33	0.0083	mg/Kg	☼	01/29/25 09:43	01/29/25 15:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.85*	*A J*	*mg/Kg*	☼	*1.88*	*N/A*	*01/29/25 09:43*	*01/29/25 15:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 137*	*01/29/25 09:43*	*01/29/25 15:49*	*1*
2-Fluorobiphenyl	*98*		*38 - 128*	*01/29/25 09:43*	*01/29/25 15:49*	*1*
2-Fluorophenol (Surr)	*94*		*31 - 133*	*01/29/25 09:43*	*01/29/25 15:49*	*1*
Nitrobenzene-d5 (Surr)	*93*		*31 - 120*	*01/29/25 09:43*	*01/29/25 15:49*	*1*
Phenol-d5 (Surr)	*94*		*35 - 132*	*01/29/25 09:43*	*01/29/25 15:49*	*1*
Terphenyl-d14 (Surr)	*104*		*44 - 147*	*01/29/25 09:43*	*01/29/25 15:49*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0068	0.0011	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
4,4'-DDE	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
4,4'-DDT	0.0012	U	0.0068	0.0012	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Aldrin	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
alpha-BHC	0.00069	U	0.0020	0.00069	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
beta-BHC	0.00076	U	0.0020	0.00076	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1

Client Sample ID: 2A-02-CS
Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-13
Matrix: Solid
Percent Solids: 99.1

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.00088	U	0.0020	0.00088	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Endosulfan I	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Endosulfan II	0.0017	U	0.0068	0.0017	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Endosulfan sulfate	0.00085	U	0.0068	0.00085	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Endrin	0.00097	U	0.0068	0.00097	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Endrin aldehyde	0.0016	U	0.0068	0.0016	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Endrin ketone	0.0013	U	0.0068	0.0013	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Heptachlor	0.00080	U	0.0068	0.00080	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Heptachlor epoxide	0.0010	U	0.0068	0.0010	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Methoxychlor	0.0015	U	0.0068	0.0015	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Toxaphene	0.024	U	0.068	0.024	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1
Chlordane (n.o.s.)	0.016	U	0.068	0.016	mg/Kg	☼	01/30/25 10:19	01/30/25 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*17 - 150*	*01/30/25 10:19*	*01/30/25 19:49*	*1*
DCB Decachlorobiphenyl	*97*		*17 - 150*	*01/30/25 10:19*	*01/30/25 19:49*	*1*
Tetrachloro-m-xylene	*85*		*21 - 150*	*01/30/25 10:19*	*01/30/25 19:49*	*1*
Tetrachloro-m-xylene	*82*		*21 - 150*	*01/30/25 10:19*	*01/30/25 19:49*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Aroclor 1221	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Aroclor 1232	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Aroclor 1242	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Aroclor 1248	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Aroclor 1254	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Aroclor 1260	0.018	U *+ *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Aroclor-1262	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Aroclor 1268	0.018	U	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1
Polychlorinated biphenyls, Total	0.018	U *1	0.068	0.018	mg/Kg	☼	01/30/25 10:13	01/30/25 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*123*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:34*	*1*
DCB Decachlorobiphenyl	*119*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:34*	*1*
Tetrachloro-m-xylene	*120*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:34*	*1*
Tetrachloro-m-xylene	*117*		*20 - 150*	*01/30/25 10:13*	*01/30/25 19:34*	*1*

Method: NJDEP NJ DEP EPH - New Jersey - Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Aromatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total Aliphatics	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1
Total EPH	0.010	U	2.0	0.010	mg/Kg			01/30/25 11:49	1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 01:09	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/31/25 01:09	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 01:09	1
C21-C40 Aliphatics	7.1	U	7.1	7.1	mg/Kg	☼	01/30/25 10:45	01/31/25 01:09	1

Client Sample ID: 2A-02-CS

Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-13

Matrix: Solid
Percent Solids: 99.1

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg	☼	01/30/25 10:45	01/31/25 01:09	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg	☼	01/30/25 10:45	01/31/25 01:09	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg	☼	01/30/25 10:45	01/31/25 01:09	1
C21-C36 Aromatic	8.1	U	8.1	8.1	mg/Kg	☼	01/30/25 10:45	01/31/25 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*40 - 140*	*01/30/25 10:45*	*01/31/25 01:09*	*1*
2-Fluorobiphenyl	*86*		*40 - 140*	*01/30/25 10:45*	*01/31/25 01:09*	*1*
2-Bromonaphthalene	*82*		*40 - 140*	*01/30/25 10:45*	*01/31/25 01:09*	*1*
1-Chlorooctadecane	*81*		*40 - 140*	*01/30/25 10:45*	*01/31/25 01:09*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7420**		18.5	5.1	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Antimony	0.14	U	0.93	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Arsenic	**1.5**		0.93	0.095	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Barium	**6.9**		1.9	0.13	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Beryllium	**0.068**	**J**	0.37	0.053	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Cadmium	0.10	U	0.93	0.10	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Calcium	37.7	U	92.6	37.7	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Chromium	**8.2**		1.9	0.84	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Cobalt	**1.3**	**J**	1.9	0.14	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Copper	**4.3**		1.9	0.34	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Iron	**5520**		55.6	18.7	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Lead	**4.0**		0.56	0.19	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Magnesium	**173**		92.6	9.4	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Manganese	**27.4**		3.7	0.37	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Nickel	**3.0**		1.9	0.44	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Potassium	**172**		92.6	15.0	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Selenium	**0.17**	**J**	1.2	0.12	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Silver	0.082	U	0.37	0.082	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Sodium	42.3	U	92.6	42.3	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Thallium	0.038	U	0.37	0.038	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Vanadium	**10.2**		1.9	0.19	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1
Zinc	**4.6**	**J**	7.4	2.8	mg/Kg	☼	01/30/25 07:39	01/31/25 14:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.016	0.0077	mg/Kg	☼	01/29/25 01:05	01/29/25 06:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.13	U	0.24	0.13	mg/Kg	☼	01/31/25 07:50	01/31/25 12:34	1
Percent Moisture (EPA Moisture)	1.0	U	1.0	1.0	%			01/27/25 16:39	1
Percent Solids (EPA Moisture)	**99.1**		1.0	1.0	%			01/27/25 16:39	1

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(65-138)	(71-128)	(50-150)	(71-126)
460-319357-2	2A-04-CS-4	113	128	120	116
460-319357-3	2A-04-CS-8	86	103	95	88
460-319357-4	2A-03-CS-4	80	90	107	82
460-319357-5	2A-03-CS-8	86	94	113	83
460-319357-6	2A-08-CS-4	85	106	95	88
460-319357-7	2A-08-CS-8	86	100	94	86
460-319357-8	2A-09-CS-4	94	95	113	84
460-319357-9	2A-09-CS-8	79	92	92	84
460-319357-10	2A-01-TS	92	115	98	93
460-319357-11	2A-01-CS	85	101	93	87
460-319357-12	2A-02-TS	81	100	94	87
460-319357-13	2A-02-CS	83	91	94	68 S1-
LB3 460-1018274/1-A	Method Blank	80	89	92	81
LCS 460-1018701/3	Lab Control Sample	83	92	92	82
LCS 460-1020232/3	Lab Control Sample	88	106	92	90
LCS 460-1020337/2	Lab Control Sample	99	105	101	100
LCSD 460-1018701/32	Lab Control Sample Dup	83	92	93	82
LCSD 460-1020232/4	Lab Control Sample Dup	87	108	95	92
LCSD 460-1020337/3	Lab Control Sample Dup	99	106	102	100
MB 460-1018701/7	Method Blank	84	93	93	81
MB 460-1020232/7	Method Blank	90	107	96	90
MB 460-1020337/6	Method Blank	97	107	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-128)	(76-120)	(77-132)	(80-120)
460-319357-1	Trip Blank	113	110	98	99
LCS 460-1018493/4	Lab Control Sample	107	119	98	102
LCSD 460-1018493/5	Lab Control Sample Dup	103	115	93	101
MB 460-1018493/9	Method Blank	105	108	96	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319357-1
Project/Site: Manchester LF

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(24-137)	(38-128)	(31-133)	(31-120)	(35-132)	(44-147)
460-319357-2	2A-04-CS-4	68	69	68	67	67	71
460-319357-3	2A-04-CS-8	71	71	71	68	69	74
460-319357-4	2A-03-CS-4	94	102	94	96	95	105
460-319357-5	2A-03-CS-8	79	81	74	75	76	92
460-319357-5 MS	2A-03-CS-8	86	86	78	82	80	88
460-319357-5 MSD	2A-03-CS-8	84	85	78	79	80	86
460-319357-6	2A-08-CS-4	72	72	72	70	71	76
460-319357-7	2A-08-CS-8	70	71	69	68	69	74
460-319357-8	2A-09-CS-4	96	102	93	94	92	106
460-319357-9	2A-09-CS-8	84	90	84	87	84	93
460-319357-10	2A-01-TS	57	57	55	54	54	57
460-319357-11	2A-01-CS	69	72	70	69	69	71
460-319357-12	2A-02-TS	88	95	88	88	85	94
460-319357-13	2A-02-CS	91	98	94	93	94	104
LCS 460-1018556/2-A	Lab Control Sample	92	92	86	89	88	95
LCS 460-1020235/2-A	Lab Control Sample	73	72	74	71	73	73
LCSD 460-1018556/3-A	Lab Control Sample Dup	91	89	85	87	85	92
LCSD 460-1020235/3-A	Lab Control Sample Dup	77	73	77	72	75	76
MB 460-1018556/1-A	Method Blank	90	95	88	91	92	97
MB 460-1020235/1-A	Method Blank	70	72	72	72	72	74

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(17-150)	(17-150)	(21-150)	(21-150)
460-319357-2	2A-04-CS-4	90	95	81	87
460-319357-2 MS	2A-04-CS-4	103	101	92	94
460-319357-2 MSD	2A-04-CS-4	96	97	89	91
460-319357-3	2A-04-CS-8	75	75	65	70
460-319357-4	2A-03-CS-4	109	110	96	110
460-319357-4 MS	2A-03-CS-4	97	99	92	94
460-319357-4 MSD	2A-03-CS-4	96	93	90	88
460-319357-5	2A-03-CS-8	104	106	93	91
460-319357-6	2A-08-CS-4	76	80	68	70
460-319357-7	2A-08-CS-8	44	51	40	42
460-319357-8	2A-09-CS-4	118	125	104	106
460-319357-9	2A-09-CS-8	126	127	106	107
460-319357-10	2A-01-TS	63	68	55	59
460-319357-11	2A-01-CS	116	115	99	107
460-319357-12	2A-02-TS	38	36	31	36
460-319357-13	2A-02-CS	97	86	82	85

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (17-150)	DCBP2 (17-150)	TCX1 (21-150)	TCX2 (21-150)
LCS 460-1018769/2-A	Lab Control Sample	100	96	99	99
LCS 460-1020217/2-A	Lab Control Sample	96	105	93	94
LCSD 460-1018769/3-A	Lab Control Sample Dup	104	102	97	100
LCSD 460-1020217/3-A	Lab Control Sample Dup	100	103	92	95
MB 460-1018769/1-A	Method Blank	52	48	47	49
MB 460-1020217/1-A	Method Blank	98	105	85	90

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (20-150)	DCBP2 (20-150)	TCX1 (20-150)	TCX2 (20-150)
460-319357-2	2A-04-CS-4	56	56	53	54
460-319357-2 MS	2A-04-CS-4	53	54	50	50
460-319357-2 MSD	2A-04-CS-4	37	38	34	35
460-319357-3	2A-04-CS-8	77	76	70	71
460-319357-4	2A-03-CS-4	128	132	125	128
460-319357-4 MS	2A-03-CS-4	94	94	87	88
460-319357-4 MSD	2A-03-CS-4	79	80	75	77
460-319357-5	2A-03-CS-8	113	112	106	107
460-319357-6	2A-08-CS-4	88	88	80	81
460-319357-7	2A-08-CS-8	44	46	42	44
460-319357-8	2A-09-CS-4	111	114	108	110
460-319357-9	2A-09-CS-8	113	117	107	110
460-319357-10	2A-01-TS	60	62	57	58
460-319357-11	2A-01-CS	119	116	106	105
460-319357-12	2A-02-TS	79	78	74	74
460-319357-13	2A-02-CS	119	123	117	120
LCS 460-1018768/2-A	Lab Control Sample	148	120	112	121
LCS 460-1020213/2-A	Lab Control Sample	105	103	93	93
LCSD 460-1018768/3-A	Lab Control Sample Dup	105	106	103	105
LCSD 460-1020213/3-A	Lab Control Sample Dup	114	107	102	100
MB 460-1018768/1-A	Method Blank	48	50	49	51
MB 460-1020213/1-A	Method Blank	103	102	98	97

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	1COD1 (40-140)
460-319357-2	2A-04-CS-4	84
460-319357-3	2A-04-CS-8	82

Surrogate Summary

Client: Geosyntec Consultants Inc
Job ID: 460-319357-1
Project/Site: Manchester LF

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
		1COD1						
Lab Sample ID	Client Sample ID	(40-140)						
460-319357-6	2A-08-CS-4	75						
460-319357-7	2A-08-CS-8	76						
460-319357-10	2A-01-TS	70						
460-319357-11	2A-01-CS	84						
460-319993-A-1-A MS	Matrix Spike	59						
460-319993-A-1-B MSD	Matrix Spike Duplicate	57						
LCS 460-1020128/2-A	Lab Control Sample	65						
LCSD 460-1018774/3-A	Lab Control Sample Dup	92						
LCSD 460-1020128/3-A	Lab Control Sample Dup	73						
MB 460-1020128/1-A	Method Blank	63						

Surrogate Legend

1COD = 1-Chlorooctadecane

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
		OTPH1	FBP1	2BN1	1COD1			
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(40-140)	(40-140)			
460-319357-2	2A-04-CS-4	92	96	97				
460-319357-3	2A-04-CS-8	93	97	100				
460-319357-4	2A-03-CS-4	90	102	93	79			
460-319357-4 MS	2A-03-CS-4	92	94	90	79			
460-319357-4 MSD	2A-03-CS-4	85	95	91	78			
460-319357-5	2A-03-CS-8	87	90	88	76			
460-319357-6	2A-08-CS-4	82	87	90				
460-319357-7	2A-08-CS-8	88	95	98				
460-319357-8	2A-09-CS-4	87	93	87	84			
460-319357-9	2A-09-CS-8	87	85	84	72			
460-319357-10	2A-01-TS	81	100	101				
460-319357-11	2A-01-CS	88	93	94				
460-319357-12	2A-02-TS	76	88	84	82			
460-319357-13	2A-02-CS	84	86	82	81			
460-319993-A-1-A MS	Matrix Spike	76	96	97				
460-319993-A-1-B MSD	Matrix Spike Duplicate	57	79	80				
LCS 460-1018774/2-A	Lab Control Sample	91	95	90	77			
LCS 460-1020128/2-A	Lab Control Sample	86	93	96				
LCSD 460-1018774/3-A	Lab Control Sample Dup	90	93	88				
LCSD 460-1020128/3-A	Lab Control Sample Dup	102	101	105				
MB 460-1018774/1-A	Method Blank	85	87	84	78			
MB 460-1020128/1-A	Method Blank	74	106	105				

Surrogate Legend

OTPH = o-Terphenyl
FBP = 2-Fluorobiphenyl
2BN = 2-Bromonaphthalene
1COD = 1-Chlorooctadecane

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-1018274/1-A
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018274

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		01/27/25 18:20	01/30/25 13:26	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-1018274/1-A
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018274

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg		01/27/25 18:20	01/30/25 13:26	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg		01/27/25 18:20	01/30/25 13:26	1

Tentatively Identified Compound	*LB3 Est. Result*	*LB3 Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/Kg*			*N/A*	*01/27/25 18:20*	*01/30/25 13:26*	*1*

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*65 - 138*	*01/27/25 18:20*	*01/30/25 13:26*	*1*
4-Bromofluorobenzene	*89*		*71 - 128*	*01/27/25 18:20*	*01/30/25 13:26*	*1*
Dibromofluoromethane (Surr)	*92*		*50 - 150*	*01/27/25 18:20*	*01/30/25 13:26*	*1*
Toluene-d8 (Surr)	*81*		*71 - 126*	*01/27/25 18:20*	*01/30/25 13:26*	*1*

Lab Sample ID: MB 460-1018493/9
Matrix: Water
Analysis Batch: 1018493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			01/29/25 09:29	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			01/29/25 09:29	1
1,1,2-Trichloroethane	0.20	U	1.0	0.20	ug/L			01/29/25 09:29	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			01/29/25 09:29	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/29/25 09:29	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			01/29/25 09:29	1
1,2-Dibromoethane	0.50	U	1.0	0.50	ug/L			01/29/25 09:29	1
1,4-Dioxane	28	U	50	28	ug/L			01/29/25 09:29	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			01/29/25 09:29	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			01/29/25 09:29	1
Acrolein	2.4	U	4.0	2.4	ug/L			01/29/25 09:29	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			01/29/25 09:29	1
Acrylonitrile	1.8	U	2.0	1.8	ug/L			01/29/25 09:29	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			01/29/25 09:29	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			01/29/25 09:29	1
Acetone	4.4	U	5.0	4.4	ug/L			01/29/25 09:29	1
Benzene	0.20	U	1.0	0.20	ug/L			01/29/25 09:29	1
Bromodichloromethane	0.34	U	1.0	0.34	ug/L			01/29/25 09:29	1
Bromoform	0.54	U	1.0	0.54	ug/L			01/29/25 09:29	1
Bromomethane	0.55	U	1.0	0.55	ug/L			01/29/25 09:29	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			01/29/25 09:29	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			01/29/25 09:29	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			01/29/25 09:29	1
Chloroethane	0.32	U	1.0	0.32	ug/L			01/29/25 09:29	1
Chloroform	0.33	U	1.0	0.33	ug/L			01/29/25 09:29	1
Chloromethane	0.40	U	1.0	0.40	ug/L			01/29/25 09:29	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/29/25 09:29	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/29/25 09:29	1
Dibromochloromethane	0.28	U	1.0	0.28	ug/L			01/29/25 09:29	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			01/29/25 09:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018493/9
Matrix: Water
Analysis Batch: 1018493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.30	U	1.0	0.30	ug/L			01/29/25 09:29	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			01/29/25 09:29	1
tert-Butyl alcohol	8.3	U	10	8.3	ug/L			01/29/25 09:29	1
Methyl tert-butyl ether	0.22	U	1.0	0.22	ug/L			01/29/25 09:29	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			01/29/25 09:29	1
Styrene	0.42	U	1.0	0.42	ug/L			01/29/25 09:29	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			01/29/25 09:29	1
Toluene	0.38	U	1.0	0.38	ug/L			01/29/25 09:29	1
Xylenes, Total	0.65	U	2.0	0.65	ug/L			01/29/25 09:29	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			01/29/25 09:29	1
trans-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			01/29/25 09:29	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			01/29/25 09:29	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			01/29/25 09:29	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			01/29/25 09:29	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*01/29/25 09:29*	*1*

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 128*		*01/29/25 09:29*	*1*
4-Bromofluorobenzene	*108*		*76 - 120*		*01/29/25 09:29*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 132*		*01/29/25 09:29*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/29/25 09:29*	*1*

Lab Sample ID: LCS 460-1018493/4
Matrix: Water
Analysis Batch: 1018493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	17.4		ug/L		87	72 - 128
1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	63 - 139
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	74 - 125
1,1-Dichloroethane	20.0	20.0		ug/L		100	73 - 130
1,1-Dichloroethene	20.0	16.2		ug/L		81	68 - 133
1,2-Dibromo-3-Chloropropane	20.0	20.4		ug/L		102	58 - 132
1,2-Dibromoethane	20.0	19.3		ug/L		97	79 - 126
1,4-Dioxane	400	468		ug/L		117	42 - 150
1,2-Dichloroethane	20.0	20.2		ug/L		101	66 - 129
1,2-Dichloropropane	20.0	21.0		ug/L		105	72 - 128
Acrolein	40.0	85.3	*+	ug/L		213	18 - 150
2-Butanone (MEK)	100	76.0		ug/L		76	65 - 142
Acrylonitrile	200	247		ug/L		124	57 - 146
2-Hexanone	100	123		ug/L		123	72 - 134
4-Methyl-2-pentanone (MIBK)	100	119		ug/L		119	77 - 130
Acetone	100	97.4		ug/L		97	60 - 133
Benzene	20.0	19.8		ug/L		99	71 - 126
Bromodichloromethane	20.0	18.2		ug/L		91	76 - 121
Bromoform	20.0	21.8		ug/L		109	58 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018493/4
Matrix: Water
Analysis Batch: 1018493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.2		ug/L		71	33 - 150
Carbon disulfide	20.0	16.5		ug/L		82	35 - 150
Carbon tetrachloride	20.0	17.0		ug/L		85	65 - 131
Chlorobenzene	20.0	18.8		ug/L		94	80 - 120
Chloroethane	20.0	18.9		ug/L		94	54 - 150
Chloroform	20.0	18.5		ug/L		93	78 - 125
Chloromethane	20.0	23.6		ug/L		118	43 - 149
cis-1,2-Dichloroethene	20.0	17.1		ug/L		86	78 - 121
cis-1,3-Dichloropropene	20.0	19.1		ug/L		96	74 - 125
Dibromochloromethane	20.0	19.3		ug/L		97	73 - 121
Dichlorodifluoromethane	20.0	14.9		ug/L		74	38 - 144
Ethylbenzene	20.0	18.8		ug/L		94	78 - 120
Methyl acetate	40.0	52.4		ug/L		131	50 - 147
tert-Butyl alcohol	200	210		ug/L		105	64 - 142
Methyl tert-butyl ether	20.0	19.1		ug/L		96	72 - 131
Methylene Chloride	20.0	17.2		ug/L		86	74 - 127
Styrene	20.0	18.4		ug/L		92	82 - 127
Tetrachloroethene	20.0	20.0		ug/L		100	70 - 127
Toluene	20.0	17.9		ug/L		90	78 - 120
Xylenes, Total	40.0	36.9		ug/L		92	80 - 120
trans-1,2-Dichloroethene	20.0	16.7		ug/L		84	70 - 126
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	71 - 127
Trichloroethene	20.0	16.8		ug/L		84	73 - 121
Trichlorofluoromethane	20.0	15.8		ug/L		79	62 - 134
Vinyl chloride	20.0	18.9		ug/L		94	55 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 128*
4-Bromofluorobenzene	*119*		*76 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 132*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 460-1018493/5
Matrix: Water
Analysis Batch: 1018493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.2		ug/L		91	72 - 128	5	30
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	63 - 139	3	30
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	74 - 125	2	30
1,1-Dichloroethane	20.0	20.0		ug/L		100	73 - 130	0	30
1,1-Dichloroethene	20.0	16.8		ug/L		84	68 - 133	3	30
1,2-Dibromo-3-Chloropropane	20.0	21.1		ug/L		105	58 - 132	4	30
1,2-Dibromoethane	20.0	20.8		ug/L		104	79 - 126	7	30
1,4-Dioxane	400	413		ug/L		103	42 - 150	12	30
1,2-Dichloroethane	20.0	21.0		ug/L		105	66 - 129	4	30
1,2-Dichloropropane	20.0	21.8		ug/L		109	72 - 128	4	30
Acrolein	40.0	84.3	*+	ug/L		211	18 - 150	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018493/5
Matrix: Water
Analysis Batch: 1018493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			100	81.8		ug/L		82	65 - 142	7	30
Acrylonitrile			200	254		ug/L		127	57 - 146	3	30
2-Hexanone			100	130		ug/L		130	72 - 134	6	30
4-Methyl-2-pentanone (MIBK)			100	126		ug/L		126	77 - 130	6	30
Acetone			100	97.9		ug/L		98	60 - 133	1	30
Benzene			20.0	20.0		ug/L		100	71 - 126	1	30
Bromodichloromethane			20.0	18.5		ug/L		93	76 - 121	2	30
Bromoform			20.0	22.9		ug/L		114	58 - 128	5	30
Bromomethane			20.0	15.7		ug/L		79	33 - 150	10	30
Carbon disulfide			20.0	17.3		ug/L		86	35 - 150	5	30
Carbon tetrachloride			20.0	18.2		ug/L		91	65 - 131	7	30
Chlorobenzene			20.0	19.9		ug/L		99	80 - 120	6	30
Chloroethane			20.0	19.4		ug/L		97	54 - 150	3	30
Chloroform			20.0	19.1		ug/L		95	78 - 125	3	30
Chloromethane			20.0	25.0		ug/L		125	43 - 149	6	30
cis-1,2-Dichloroethene			20.0	17.4		ug/L		87	78 - 121	2	30
cis-1,3-Dichloropropene			20.0	20.0		ug/L		100	74 - 125	4	30
Dibromochloromethane			20.0	19.9		ug/L		100	73 - 121	3	30
Dichlorodifluoromethane			20.0	16.4		ug/L		82	38 - 144	10	30
Ethylbenzene			20.0	19.2		ug/L		96	78 - 120	2	30
Methyl acetate			40.0	57.6		ug/L		144	50 - 147	10	30
tert-Butyl alcohol			200	211		ug/L		106	64 - 142	1	30
Methyl tert-butyl ether			20.0	20.1		ug/L		100	72 - 131	5	30
Methylene Chloride			20.0	18.1		ug/L		91	74 - 127	5	30
Styrene			20.0	19.5		ug/L		98	82 - 127	6	30
Tetrachloroethene			20.0	20.6		ug/L		103	70 - 127	3	30
Toluene			20.0	18.6		ug/L		93	78 - 120	3	30
Xylenes, Total			40.0	39.5		ug/L		99	80 - 120	7	30
trans-1,2-Dichloroethene			20.0	17.2		ug/L		86	70 - 126	3	30
trans-1,3-Dichloropropene			20.0	19.0		ug/L		95	71 - 127	0	30
Trichloroethene			20.0	17.5		ug/L		88	73 - 121	4	30
Trichlorofluoromethane			20.0	17.3		ug/L		86	62 - 134	9	30
Vinyl chloride			20.0	20.9		ug/L		104	55 - 144	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 128*
4-Bromofluorobenzene	*115*		*76 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 132*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 460-1018701/7
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			01/30/25 09:13	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/30/25 09:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/30/25 09:13	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018701/7
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			01/30/25 09:13	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			01/30/25 09:13	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			01/30/25 09:13	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/30/25 09:13	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/30/25 09:13	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			01/30/25 09:13	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			01/30/25 09:13	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			01/30/25 09:13	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			01/30/25 09:13	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			01/30/25 09:13	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			01/30/25 09:13	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			01/30/25 09:13	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			01/30/25 09:13	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			01/30/25 09:13	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			01/30/25 09:13	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			01/30/25 09:13	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			01/30/25 09:13	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			01/30/25 09:13	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			01/30/25 09:13	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			01/30/25 09:13	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			01/30/25 09:13	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			01/30/25 09:13	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			01/30/25 09:13	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			01/30/25 09:13	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			01/30/25 09:13	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			01/30/25 09:13	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			01/30/25 09:13	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			01/30/25 09:13	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/30/25 09:13	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			01/30/25 09:13	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			01/30/25 09:13	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			01/30/25 09:13	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			01/30/25 09:13	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			01/30/25 09:13	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			01/30/25 09:13	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			01/30/25 09:13	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			01/30/25 09:13	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			01/30/25 09:13	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			01/30/25 09:13	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			01/30/25 09:13	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			01/30/25 09:13	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			01/30/25 09:13	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			01/30/25 09:13	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			01/30/25 09:13	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			01/30/25 09:13	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			01/30/25 09:13	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			01/30/25 09:13	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			01/30/25 09:13	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1018701/7
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Method Blank
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A		01/30/25 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		65 - 138		01/30/25 09:13	1
4-Bromofluorobenzene	93		71 - 128		01/30/25 09:13	1
Dibromofluoromethane (Surr)	93		50 - 150		01/30/25 09:13	1
Toluene-d8 (Surr)	81		71 - 126		01/30/25 09:13	1

Lab Sample ID: LCS 460-1018701/3
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0169		mg/Kg		84	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0243		mg/Kg		121	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0201		mg/Kg		101	75 - 121
1,1,2-Trichloroethane	0.0200	0.0222		mg/Kg		111	80 - 120
1,1-Dichloroethane	0.0200	0.0178		mg/Kg		89	72 - 120
1,1-Dichloroethene	0.0200	0.0214		mg/Kg		107	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0225		mg/Kg		113	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0218		mg/Kg		109	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0271	*+	mg/Kg		135	80 - 124
1,2-Dibromoethane	0.0200	0.0226		mg/Kg		113	79 - 120
1,2-Dichlorobenzene	0.0200	0.0216		mg/Kg		108	80 - 120
1,2-Dichloroethane	0.0200	0.0176		mg/Kg		88	70 - 123
1,2-Dichloropropane	0.0200	0.0191		mg/Kg		95	73 - 124
1,3-Dichlorobenzene	0.0200	0.0216		mg/Kg		108	80 - 120
1,4-Dichlorobenzene	0.0200	0.0221		mg/Kg		111	80 - 120
2-Butanone (MEK)	0.100	0.0856		mg/Kg		86	64 - 128
2-Hexanone	0.100	0.0806		mg/Kg		81	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0812		mg/Kg		81	80 - 120
Acetone	0.100	0.0683		mg/Kg		68	58 - 122
Benzene	0.0200	0.0191		mg/Kg		96	75 - 120
Bromodichloromethane	0.0200	0.0189		mg/Kg		95	77 - 124
Bromoform	0.0200	0.0226		mg/Kg		113	61 - 125
Bromomethane	0.0200	0.0246		mg/Kg		123	37 - 150
Carbon disulfide	0.0200	0.0200		mg/Kg		100	57 - 133
Carbon tetrachloride	0.0200	0.0164		mg/Kg		82	66 - 127
Chlorobenzene	0.0200	0.0203		mg/Kg		101	80 - 120
Chlorobromomethane	0.0200	0.0251		mg/Kg		125	76 - 127
Chloroethane	0.0200	0.0150		mg/Kg		75	60 - 123
Chloroform	0.0200	0.0190		mg/Kg		95	79 - 126
Chloromethane	0.0200	0.0162		mg/Kg		81	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0214		mg/Kg		107	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0190		mg/Kg		95	75 - 120
Cyclohexane	0.0200	0.0214		mg/Kg		107	65 - 132
Dibromochloromethane	0.0200	0.0203		mg/Kg		101	72 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1018701/3
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0200	0.0152		mg/Kg		76	45 - 129
Ethylbenzene	0.0200	0.0204		mg/Kg		102	80 - 120
Isopropylbenzene	0.0200	0.0190		mg/Kg		95	74 - 120
Methyl acetate	0.0400	0.0428		mg/Kg		107	57 - 120
Methyl tert-butyl ether	0.0200	0.0210		mg/Kg		105	74 - 125
Methylcyclohexane	0.0200	0.0213		mg/Kg		106	66 - 125
Methylene Chloride	0.0200	0.0214		mg/Kg		107	78 - 120
m-Xylene & p-Xylene	0.0200	0.0201		mg/Kg		101	80 - 120
o-Xylene	0.0200	0.0204		mg/Kg		102	80 - 120
Styrene	0.0200	0.0213		mg/Kg		106	80 - 120
Tetrachloroethene	0.0200	0.0199		mg/Kg		100	73 - 120
Toluene	0.0200	0.0194		mg/Kg		97	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0212		mg/Kg		106	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0191		mg/Kg		96	77 - 120
Trichloroethene	0.0200	0.0200		mg/Kg		100	80 - 120
Trichlorofluoromethane	0.0200	0.0141		mg/Kg		71	61 - 130
Vinyl chloride	0.0200	0.0196		mg/Kg		98	54 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*65 - 138*
4-Bromofluorobenzene	*92*		*71 - 128*
Dibromofluoromethane (Surr)	*92*		*50 - 150*
Toluene-d8 (Surr)	*82*		*71 - 126*

Lab Sample ID: LCSD 460-1018701/32
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0149	*-	mg/Kg		75	78 - 120	12	30
1,1,2,2-Tetrachloroethane	0.0200	0.0206		mg/Kg		103	70 - 133	16	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0225		mg/Kg		112	75 - 121	11	30
1,1,2-Trichloroethane	0.0200	0.0192		mg/Kg		96	80 - 120	15	30
1,1-Dichloroethane	0.0200	0.0163		mg/Kg		81	72 - 120	9	30
1,1-Dichloroethene	0.0200	0.0233		mg/Kg		116	76 - 120	9	30
1,2,3-Trichlorobenzene	0.0200	0.0190		mg/Kg		95	77 - 137	17	30
1,2,4-Trichlorobenzene	0.0200	0.0187		mg/Kg		93	77 - 136	15	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0239		mg/Kg		120	80 - 124	12	30
1,2-Dibromoethane	0.0200	0.0198		mg/Kg		99	79 - 120	13	30
1,2-Dichlorobenzene	0.0200	0.0193		mg/Kg		96	80 - 120	12	30
1,2-Dichloroethane	0.0200	0.0156		mg/Kg		78	70 - 123	12	30
1,2-Dichloropropane	0.0200	0.0164		mg/Kg		82	73 - 124	15	30
1,3-Dichlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120	14	30
1,4-Dichlorobenzene	0.0200	0.0188		mg/Kg		94	80 - 120	16	30
2-Butanone (MEK)	0.100	0.0740		mg/Kg		74	64 - 128	15	30
2-Hexanone	0.100	0.0689	*-	mg/Kg		69	75 - 120	16	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0693	*-	mg/Kg		69	80 - 120	16	30
Acetone	0.100	0.0747		mg/Kg		75	58 - 122	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1018701/32
Matrix: Solid
Analysis Batch: 1018701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0200	0.0169		mg/Kg		84	75 - 120	12	30
Bromodichloromethane			0.0200	0.0169		mg/Kg		84	77 - 124	12	30
Bromoform			0.0200	0.0198		mg/Kg		99	61 - 125	13	30
Bromomethane			0.0200	0.0296		mg/Kg		148	37 - 150	18	30
Carbon disulfide			0.0200	0.0203		mg/Kg		102	57 - 133	2	30
Carbon tetrachloride			0.0200	0.0146		mg/Kg		73	66 - 127	11	30
Chlorobenzene			0.0200	0.0178		mg/Kg		89	80 - 120	13	30
Chlorobromomethane			0.0200	0.0222		mg/Kg		111	76 - 127	12	30
Chloroethane			0.0200	0.0202		mg/Kg		101	60 - 123	30	30
Chloroform			0.0200	0.0167		mg/Kg		83	79 - 126	13	30
Chloromethane			0.0200	0.0177		mg/Kg		89	46 - 122	9	30
cis-1,2-Dichloroethene			0.0200	0.0191		mg/Kg		95	80 - 123	12	30
cis-1,3-Dichloropropene			0.0200	0.0165		mg/Kg		83	75 - 120	14	30
Cyclohexane			0.0200	0.0182		mg/Kg		91	65 - 132	16	30
Dibromochloromethane			0.0200	0.0180		mg/Kg		90	72 - 120	12	30
Dichlorodifluoromethane			0.0200	0.0151		mg/Kg		76	45 - 129	0	30
Ethylbenzene			0.0200	0.0177		mg/Kg		88	80 - 120	14	30
Isopropylbenzene			0.0200	0.0162		mg/Kg		81	74 - 120	15	30
Methyl acetate			0.0400	0.0401		mg/Kg		100	57 - 120	6	30
Methyl tert-butyl ether			0.0200	0.0197		mg/Kg		99	74 - 125	6	30
Methylcyclohexane			0.0200	0.0178		mg/Kg		89	66 - 125	18	30
Methylene Chloride			0.0200	0.0204		mg/Kg		102	78 - 120	5	30
m-Xylene & p-Xylene			0.0200	0.0173		mg/Kg		87	80 - 120	15	30
o-Xylene			0.0200	0.0179		mg/Kg		89	80 - 120	13	30
Styrene			0.0200	0.0184		mg/Kg		92	80 - 120	14	30
Tetrachloroethene			0.0200	0.0175		mg/Kg		88	73 - 120	13	30
Toluene			0.0200	0.0169		mg/Kg		84	80 - 120	14	30
trans-1,2-Dichloroethene			0.0200	0.0204		mg/Kg		102	78 - 120	4	30
trans-1,3-Dichloropropene			0.0200	0.0165		mg/Kg		83	77 - 120	15	30
Trichloroethene			0.0200	0.0174		mg/Kg		87	80 - 120	14	30
Trichlorofluoromethane			0.0200	0.0179		mg/Kg		90	61 - 130	24	30
Vinyl chloride			0.0200	0.0219		mg/Kg		110	54 - 122	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*65 - 138*
4-Bromofluorobenzene	*92*		*71 - 128*
Dibromofluoromethane (Surr)	*93*		*50 - 150*
Toluene-d8 (Surr)	*82*		*71 - 126*

Lab Sample ID: MB 460-1020232/7
Matrix: Solid
Analysis Batch: 1020232

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			02/07/25 21:41	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/07/25 21:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			02/07/25 21:41	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			02/07/25 21:41	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1020232/7
Matrix: Solid
Analysis Batch: 1020232

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/07/25 21:41	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			02/07/25 21:41	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/07/25 21:41	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/07/25 21:41	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			02/07/25 21:41	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			02/07/25 21:41	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/07/25 21:41	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			02/07/25 21:41	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			02/07/25 21:41	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			02/07/25 21:41	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			02/07/25 21:41	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			02/07/25 21:41	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			02/07/25 21:41	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			02/07/25 21:41	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			02/07/25 21:41	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			02/07/25 21:41	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			02/07/25 21:41	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			02/07/25 21:41	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			02/07/25 21:41	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			02/07/25 21:41	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			02/07/25 21:41	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/07/25 21:41	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			02/07/25 21:41	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			02/07/25 21:41	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			02/07/25 21:41	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			02/07/25 21:41	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			02/07/25 21:41	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/07/25 21:41	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			02/07/25 21:41	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			02/07/25 21:41	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			02/07/25 21:41	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			02/07/25 21:41	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			02/07/25 21:41	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			02/07/25 21:41	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			02/07/25 21:41	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			02/07/25 21:41	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			02/07/25 21:41	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			02/07/25 21:41	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			02/07/25 21:41	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			02/07/25 21:41	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			02/07/25 21:41	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			02/07/25 21:41	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			02/07/25 21:41	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/07/25 21:41	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			02/07/25 21:41	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			02/07/25 21:41	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			02/07/25 21:41	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1020232/7
Matrix: Solid
Analysis Batch: 1020232

Client Sample ID: Method Blank
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A		02/07/25 21:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		65 - 138		02/07/25 21:41	1
4-Bromofluorobenzene	107		71 - 128		02/07/25 21:41	1
Dibromofluoromethane (Surr)	96		50 - 150		02/07/25 21:41	1
Toluene-d8 (Surr)	90		71 - 126		02/07/25 21:41	1

Lab Sample ID: LCS 460-1020232/3
Matrix: Solid
Analysis Batch: 1020232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0211		mg/Kg		106	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0183		mg/Kg		91	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0230		mg/Kg		115	75 - 121
1,1,2-Trichloroethane	0.0200	0.0173		mg/Kg		86	80 - 120
1,1-Dichloroethane	0.0200	0.0207		mg/Kg		104	72 - 120
1,1-Dichloroethene	0.0200	0.0200		mg/Kg		100	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0216		mg/Kg		108	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0222		mg/Kg		111	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0179		mg/Kg		89	80 - 124
1,2-Dibromoethane	0.0200	0.0184		mg/Kg		92	79 - 120
1,2-Dichlorobenzene	0.0200	0.0198		mg/Kg		99	80 - 120
1,2-Dichloroethane	0.0200	0.0184		mg/Kg		92	70 - 123
1,2-Dichloropropane	0.0200	0.0196		mg/Kg		98	73 - 124
1,3-Dichlorobenzene	0.0200	0.0212		mg/Kg		106	80 - 120
1,4-Dichlorobenzene	0.0200	0.0203		mg/Kg		102	80 - 120
2-Butanone (MEK)	0.100	0.0941		mg/Kg		94	64 - 128
2-Hexanone	0.100	0.0924		mg/Kg		92	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0930		mg/Kg		93	80 - 120
Acetone	0.100	0.102		mg/Kg		102	58 - 122
Benzene	0.0200	0.0189		mg/Kg		94	75 - 120
Bromodichloromethane	0.0200	0.0189		mg/Kg		94	77 - 124
Bromoform	0.0200	0.0187		mg/Kg		93	61 - 125
Bromomethane	0.0200	0.0149		mg/Kg		75	37 - 150
Carbon disulfide	0.0200	0.0195		mg/Kg		97	57 - 133
Carbon tetrachloride	0.0200	0.0226		mg/Kg		113	66 - 127
Chlorobenzene	0.0200	0.0204		mg/Kg		102	80 - 120
Chlorobromomethane	0.0200	0.0190		mg/Kg		95	76 - 127
Chloroethane	0.0200	0.0153		mg/Kg		76	60 - 123
Chloroform	0.0200	0.0200		mg/Kg		100	79 - 126
Chloromethane	0.0200	0.0185		mg/Kg		92	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0203		mg/Kg		101	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0173		mg/Kg		87	75 - 120
Cyclohexane	0.0200	0.0214		mg/Kg		107	65 - 132
Dibromochloromethane	0.0200	0.0188		mg/Kg		94	72 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1020232/3
Matrix: Solid
Analysis Batch: 1020232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0200	0.0193		mg/Kg		97	45 - 129
Ethylbenzene	0.0200	0.0205		mg/Kg		103	80 - 120
Isopropylbenzene	0.0200	0.0198		mg/Kg		99	74 - 120
Methyl acetate	0.0400	0.0389		mg/Kg		97	57 - 120
Methyl tert-butyl ether	0.0200	0.0174		mg/Kg		87	74 - 125
Methylcyclohexane	0.0200	0.0215		mg/Kg		107	66 - 125
Methylene Chloride	0.0200	0.0193		mg/Kg		96	78 - 120
m-Xylene & p-Xylene	0.0200	0.0199		mg/Kg		100	80 - 120
o-Xylene	0.0200	0.0193		mg/Kg		97	80 - 120
Styrene	0.0200	0.0180		mg/Kg		90	80 - 120
Tetrachloroethene	0.0200	0.0225		mg/Kg		113	73 - 120
Toluene	0.0200	0.0189		mg/Kg		95	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0205		mg/Kg		103	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0158		mg/Kg		79	77 - 120
Trichloroethene	0.0200	0.0215		mg/Kg		108	80 - 120
Trichlorofluoromethane	0.0200	0.0145		mg/Kg		73	61 - 130
Vinyl chloride	0.0200	0.0168		mg/Kg		84	54 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*65 - 138*
4-Bromofluorobenzene	*106*		*71 - 128*
Dibromofluoromethane (Surr)	*92*		*50 - 150*
Toluene-d8 (Surr)	*90*		*71 - 126*

Lab Sample ID: LCSD 460-1020232/4
Matrix: Solid
Analysis Batch: 1020232

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0214		mg/Kg		107	78 - 120	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.0184		mg/Kg		92	70 - 133	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0217		mg/Kg		108	75 - 121	6	30
1,1,2-Trichloroethane	0.0200	0.0177		mg/Kg		89	80 - 120	3	30
1,1-Dichloroethane	0.0200	0.0213		mg/Kg		106	72 - 120	3	30
1,1-Dichloroethene	0.0200	0.0199		mg/Kg		100	76 - 120	0	30
1,2,3-Trichlorobenzene	0.0200	0.0223		mg/Kg		112	77 - 137	3	30
1,2,4-Trichlorobenzene	0.0200	0.0227		mg/Kg		114	77 - 136	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0172		mg/Kg		86	80 - 124	4	30
1,2-Dibromoethane	0.0200	0.0192		mg/Kg		96	79 - 120	4	30
1,2-Dichlorobenzene	0.0200	0.0198		mg/Kg		99	80 - 120	0	30
1,2-Dichloroethane	0.0200	0.0192		mg/Kg		96	70 - 123	4	30
1,2-Dichloropropane	0.0200	0.0202		mg/Kg		101	73 - 124	3	30
1,3-Dichlorobenzene	0.0200	0.0217		mg/Kg		108	80 - 120	2	30
1,4-Dichlorobenzene	0.0200	0.0206		mg/Kg		103	80 - 120	2	30
2-Butanone (MEK)	0.100	0.0958		mg/Kg		96	64 - 128	2	30
2-Hexanone	0.100	0.0972		mg/Kg		97	75 - 120	5	30
4-Methyl-2-pentanone (MIBK)	0.100	0.100		mg/Kg		100	80 - 120	7	30
Acetone	0.100	0.108		mg/Kg		108	58 - 122	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1020232/4
Matrix: Solid
Analysis Batch: 1020232

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0200	0.0193		mg/Kg		97	75 - 120	2	30
Bromodichloromethane			0.0200	0.0196		mg/Kg		98	77 - 124	4	30
Bromoform			0.0200	0.0189		mg/Kg		95	61 - 125	1	30
Bromomethane			0.0200	0.0145		mg/Kg		73	37 - 150	3	30
Carbon disulfide			0.0200	0.0197		mg/Kg		98	57 - 133	1	30
Carbon tetrachloride			0.0200	0.0222		mg/Kg		111	66 - 127	1	30
Chlorobenzene			0.0200	0.0209		mg/Kg		104	80 - 120	2	30
Chlorobromomethane			0.0200	0.0197		mg/Kg		98	76 - 127	4	30
Chloroethane			0.0200	0.0144		mg/Kg		72	60 - 123	6	30
Chloroform			0.0200	0.0208		mg/Kg		104	79 - 126	4	30
Chloromethane			0.0200	0.0179		mg/Kg		89	46 - 122	3	30
cis-1,2-Dichloroethene			0.0200	0.0208		mg/Kg		104	80 - 123	3	30
cis-1,3-Dichloropropene			0.0200	0.0180		mg/Kg		90	75 - 120	4	30
Cyclohexane			0.0200	0.0216		mg/Kg		108	65 - 132	1	30
Dibromochloromethane			0.0200	0.0192		mg/Kg		96	72 - 120	2	30
Dichlorodifluoromethane			0.0200	0.0186		mg/Kg		93	45 - 129	4	30
Ethylbenzene			0.0200	0.0206		mg/Kg		103	80 - 120	0	30
Isopropylbenzene			0.0200	0.0200		mg/Kg		100	74 - 120	1	30
Methyl acetate			0.0400	0.0390		mg/Kg		98	57 - 120	0	30
Methyl tert-butyl ether			0.0200	0.0177		mg/Kg		88	74 - 125	2	30
Methylcyclohexane			0.0200	0.0220		mg/Kg		110	66 - 125	2	30
Methylene Chloride			0.0200	0.0195		mg/Kg		98	78 - 120	1	30
m-Xylene & p-Xylene			0.0200	0.0199		mg/Kg		100	80 - 120	0	30
o-Xylene			0.0200	0.0194		mg/Kg		97	80 - 120	0	30
Styrene			0.0200	0.0185		mg/Kg		93	80 - 120	3	30
Tetrachloroethene			0.0200	0.0227		mg/Kg		113	73 - 120	1	30
Toluene			0.0200	0.0194		mg/Kg		97	80 - 120	3	30
trans-1,2-Dichloroethene			0.0200	0.0210		mg/Kg		105	78 - 120	2	30
trans-1,3-Dichloropropene			0.0200	0.0164		mg/Kg		82	77 - 120	4	30
Trichloroethene			0.0200	0.0223		mg/Kg		112	80 - 120	4	30
Trichlorofluoromethane			0.0200	0.0140		mg/Kg		70	61 - 130	4	30
Vinyl chloride			0.0200	0.0164		mg/Kg		82	54 - 122	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*65 - 138*
4-Bromofluorobenzene	*108*		*71 - 128*
Dibromofluoromethane (Surr)	*95*		*50 - 150*
Toluene-d8 (Surr)	*92*		*71 - 126*

Lab Sample ID: MB 460-1020337/6
Matrix: Solid
Analysis Batch: 1020337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			02/10/25 06:29	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/10/25 06:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00030	U	0.0010	0.00030	mg/Kg			02/10/25 06:29	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			02/10/25 06:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1020337/6
Matrix: Solid
Analysis Batch: 1020337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/10/25 06:29	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			02/10/25 06:29	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/10/25 06:29	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/10/25 06:29	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			02/10/25 06:29	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			02/10/25 06:29	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/10/25 06:29	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			02/10/25 06:29	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			02/10/25 06:29	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			02/10/25 06:29	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			02/10/25 06:29	1
2-Butanone (MEK)	0.00037	U	0.0050	0.00037	mg/Kg			02/10/25 06:29	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			02/10/25 06:29	1
4-Methyl-2-pentanone (MIBK)	0.0016	U	0.0050	0.0016	mg/Kg			02/10/25 06:29	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			02/10/25 06:29	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			02/10/25 06:29	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			02/10/25 06:29	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			02/10/25 06:29	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			02/10/25 06:29	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			02/10/25 06:29	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			02/10/25 06:29	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/10/25 06:29	1
Chlorobromomethane	0.00028	U	0.0010	0.00028	mg/Kg			02/10/25 06:29	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			02/10/25 06:29	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			02/10/25 06:29	1
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			02/10/25 06:29	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			02/10/25 06:29	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/10/25 06:29	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			02/10/25 06:29	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			02/10/25 06:29	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			02/10/25 06:29	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			02/10/25 06:29	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			02/10/25 06:29	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			02/10/25 06:29	1
Methyl tert-butyl ether	0.00051	U	0.0010	0.00051	mg/Kg			02/10/25 06:29	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			02/10/25 06:29	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			02/10/25 06:29	1
m-Xylene & p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			02/10/25 06:29	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			02/10/25 06:29	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			02/10/25 06:29	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			02/10/25 06:29	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			02/10/25 06:29	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			02/10/25 06:29	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/10/25 06:29	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			02/10/25 06:29	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			02/10/25 06:29	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			02/10/25 06:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-1020337/6
Matrix: Solid
Analysis Batch: 1020337

Client Sample ID: Method Blank
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A		02/10/25 06:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		65 - 138		02/10/25 06:29	1
4-Bromofluorobenzene	107		71 - 128		02/10/25 06:29	1
Dibromofluoromethane (Surr)	101		50 - 150		02/10/25 06:29	1
Toluene-d8 (Surr)	98		71 - 126		02/10/25 06:29	1

Lab Sample ID: LCS 460-1020337/2
Matrix: Solid
Analysis Batch: 1020337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0200	0.0205		mg/Kg		102	78 - 120
1,1,2,2-Tetrachloroethane	0.0200	0.0189		mg/Kg		94	70 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0226		mg/Kg		113	75 - 121
1,1,2-Trichloroethane	0.0200	0.0199		mg/Kg		99	80 - 120
1,1-Dichloroethane	0.0200	0.0205		mg/Kg		102	72 - 120
1,1-Dichloroethene	0.0200	0.0215		mg/Kg		107	76 - 120
1,2,3-Trichlorobenzene	0.0200	0.0198		mg/Kg		99	77 - 137
1,2,4-Trichlorobenzene	0.0200	0.0198		mg/Kg		99	77 - 136
1,2-Dibromo-3-Chloropropane	0.0200	0.0184		mg/Kg		92	80 - 124
1,2-Dibromoethane	0.0200	0.0184		mg/Kg		92	79 - 120
1,2-Dichlorobenzene	0.0200	0.0195		mg/Kg		97	80 - 120
1,2-Dichloroethane	0.0200	0.0186		mg/Kg		93	70 - 123
1,2-Dichloropropane	0.0200	0.0194		mg/Kg		97	73 - 124
1,3-Dichlorobenzene	0.0200	0.0204		mg/Kg		102	80 - 120
1,4-Dichlorobenzene	0.0200	0.0201		mg/Kg		101	80 - 120
2-Butanone (MEK)	0.100	0.0997		mg/Kg		100	64 - 128
2-Hexanone	0.100	0.0950		mg/Kg		95	75 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0964		mg/Kg		96	80 - 120
Acetone	0.100	0.0967		mg/Kg		97	58 - 122
Benzene	0.0200	0.0199		mg/Kg		100	75 - 120
Bromodichloromethane	0.0200	0.0195		mg/Kg		98	77 - 124
Bromoform	0.0200	0.0185		mg/Kg		93	61 - 125
Bromomethane	0.0200	0.0300		mg/Kg		150	37 - 150
Carbon disulfide	0.0200	0.0208		mg/Kg		104	57 - 133
Carbon tetrachloride	0.0200	0.0202		mg/Kg		101	66 - 127
Chlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120
Chlorobromomethane	0.0200	0.0203		mg/Kg		101	76 - 127
Chloroethane	0.0200	0.0202		mg/Kg		101	60 - 123
Chloroform	0.0200	0.0199		mg/Kg		100	79 - 126
Chloromethane	0.0200	0.0203		mg/Kg		102	46 - 122
cis-1,2-Dichloroethene	0.0200	0.0202		mg/Kg		101	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0190		mg/Kg		95	75 - 120
Cyclohexane	0.0200	0.0218		mg/Kg		109	65 - 132
Dibromochloromethane	0.0200	0.0189		mg/Kg		94	72 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-1020337/2
Matrix: Solid
Analysis Batch: 1020337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	0.0200	0.0218		mg/Kg		109	45 - 129
Ethylbenzene	0.0200	0.0199		mg/Kg		100	80 - 120
Isopropylbenzene	0.0200	0.0199		mg/Kg		100	74 - 120
Methyl acetate	0.0400	0.0392		mg/Kg		98	57 - 120
Methyl tert-butyl ether	0.0200	0.0192		mg/Kg		96	74 - 125
Methylcyclohexane	0.0200	0.0214		mg/Kg		107	66 - 125
Methylene Chloride	0.0200	0.0187		mg/Kg		94	78 - 120
m-Xylene & p-Xylene	0.0200	0.0193		mg/Kg		97	80 - 120
o-Xylene	0.0200	0.0195		mg/Kg		98	80 - 120
Styrene	0.0200	0.0192		mg/Kg		96	80 - 120
Tetrachloroethene	0.0200	0.0202		mg/Kg		101	73 - 120
Toluene	0.0200	0.0199		mg/Kg		99	80 - 120
trans-1,2-Dichloroethene	0.0200	0.0210		mg/Kg		105	78 - 120
trans-1,3-Dichloropropene	0.0200	0.0185		mg/Kg		92	77 - 120
Trichloroethene	0.0200	0.0201		mg/Kg		100	80 - 120
Trichlorofluoromethane	0.0200	0.0212		mg/Kg		106	61 - 130
Vinyl chloride	0.0200	0.0208		mg/Kg		104	54 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 138*
4-Bromofluorobenzene	*105*		*71 - 128*
Dibromofluoromethane (Surr)	*101*		*50 - 150*
Toluene-d8 (Surr)	*100*		*71 - 126*

Lab Sample ID: LCSD 460-1020337/3
Matrix: Solid
Analysis Batch: 1020337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0199		mg/Kg		99	78 - 120	3	30
1,1,2,2-Tetrachloroethane	0.0200	0.0186		mg/Kg		93	70 - 133	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0214		mg/Kg		107	75 - 121	5	30
1,1,2-Trichloroethane	0.0200	0.0190		mg/Kg		95	80 - 120	4	30
1,1-Dichloroethane	0.0200	0.0193		mg/Kg		97	72 - 120	6	30
1,1-Dichloroethene	0.0200	0.0206		mg/Kg		103	76 - 120	4	30
1,2,3-Trichlorobenzene	0.0200	0.0193		mg/Kg		97	77 - 137	2	30
1,2,4-Trichlorobenzene	0.0200	0.0197		mg/Kg		99	77 - 136	1	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0182		mg/Kg		91	80 - 124	1	30
1,2-Dibromoethane	0.0200	0.0178		mg/Kg		89	79 - 120	4	30
1,2-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 120	3	30
1,2-Dichloroethane	0.0200	0.0180		mg/Kg		90	70 - 123	4	30
1,2-Dichloropropane	0.0200	0.0188		mg/Kg		94	73 - 124	3	30
1,3-Dichlorobenzene	0.0200	0.0198		mg/Kg		99	80 - 120	3	30
1,4-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120	3	30
2-Butanone (MEK)	0.100	0.0920		mg/Kg		92	64 - 128	8	30
2-Hexanone	0.100	0.0927		mg/Kg		93	75 - 120	2	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0924		mg/Kg		92	80 - 120	4	30
Acetone	0.100	0.0937		mg/Kg		94	58 - 122	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-1020337/3
Matrix: Solid
Analysis Batch: 1020337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0200	0.0191		mg/Kg		95	75 - 120	4	30
Bromodichloromethane			0.0200	0.0188		mg/Kg		94	77 - 124	4	30
Bromoform			0.0200	0.0179		mg/Kg		90	61 - 125	3	30
Bromomethane			0.0200	0.0310	*+	mg/Kg		155	37 - 150	3	30
Carbon disulfide			0.0200	0.0199		mg/Kg		99	57 - 133	5	30
Carbon tetrachloride			0.0200	0.0196		mg/Kg		98	66 - 127	3	30
Chlorobenzene			0.0200	0.0190		mg/Kg		95	80 - 120	3	30
Chlorobromomethane			0.0200	0.0194		mg/Kg		97	76 - 127	4	30
Chloroethane			0.0200	0.0206		mg/Kg		103	60 - 123	2	30
Chloroform			0.0200	0.0194		mg/Kg		97	79 - 126	3	30
Chloromethane			0.0200	0.0207		mg/Kg		104	46 - 122	2	30
cis-1,2-Dichloroethene			0.0200	0.0196		mg/Kg		98	80 - 123	3	30
cis-1,3-Dichloropropene			0.0200	0.0186		mg/Kg		93	75 - 120	2	30
Cyclohexane			0.0200	0.0209		mg/Kg		105	65 - 132	4	30
Dibromochloromethane			0.0200	0.0183		mg/Kg		92	72 - 120	3	30
Dichlorodifluoromethane			0.0200	0.0222		mg/Kg		111	45 - 129	2	30
Ethylbenzene			0.0200	0.0191		mg/Kg		95	80 - 120	4	30
Isopropylbenzene			0.0200	0.0194		mg/Kg		97	74 - 120	3	30
Methyl acetate			0.0400	0.0372		mg/Kg		93	57 - 120	5	30
Methyl tert-butyl ether			0.0200	0.0188		mg/Kg		94	74 - 125	2	30
Methylcyclohexane			0.0200	0.0203		mg/Kg		102	66 - 125	5	30
Methylene Chloride			0.0200	0.0182		mg/Kg		91	78 - 120	3	30
m-Xylene & p-Xylene			0.0200	0.0185		mg/Kg		93	80 - 120	4	30
o-Xylene			0.0200	0.0189		mg/Kg		94	80 - 120	3	30
Styrene			0.0200	0.0188		mg/Kg		94	80 - 120	2	30
Tetrachloroethene			0.0200	0.0192		mg/Kg		96	73 - 120	5	30
Toluene			0.0200	0.0192		mg/Kg		96	80 - 120	4	30
trans-1,2-Dichloroethene			0.0200	0.0198		mg/Kg		99	78 - 120	6	30
trans-1,3-Dichloropropene			0.0200	0.0177		mg/Kg		88	77 - 120	4	30
Trichloroethene			0.0200	0.0197		mg/Kg		98	80 - 120	2	30
Trichlorofluoromethane			0.0200	0.0214		mg/Kg		107	61 - 130	1	30
Vinyl chloride			0.0200	0.0212		mg/Kg		106	54 - 122	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 138*
4-Bromofluorobenzene	*106*		*71 - 128*
Dibromofluoromethane (Surr)	*102*		*50 - 150*
Toluene-d8 (Surr)	*100*		*71 - 126*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-1018556/1-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		01/29/25 09:43	01/29/25 14:13	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018556/1-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		01/29/25 09:43	01/29/25 14:13	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1018556/1-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Phenol	0.012	U	0.33	0.012	mg/Kg		01/29/25 09:43	01/29/25 14:13	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		01/29/25 09:43	01/29/25 14:13	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Aldol condensation product	*0.494*	*A J*	*mg/Kg*		*1.87*	*N/A*	*01/29/25 09:43*	*01/29/25 14:13*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*24 - 137*	*01/29/25 09:43*	*01/29/25 14:13*	*1*
2-Fluorobiphenyl	*95*		*38 - 128*	*01/29/25 09:43*	*01/29/25 14:13*	*1*
2-Fluorophenol (Surr)	*88*		*31 - 133*	*01/29/25 09:43*	*01/29/25 14:13*	*1*
Nitrobenzene-d5 (Surr)	*91*		*31 - 120*	*01/29/25 09:43*	*01/29/25 14:13*	*1*
Phenol-d5 (Surr)	*92*		*35 - 132*	*01/29/25 09:43*	*01/29/25 14:13*	*1*
Terphenyl-d14 (Surr)	*97*		*44 - 147*	*01/29/25 09:43*	*01/29/25 14:13*	*1*

Lab Sample ID: LCS 460-1018556/2-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	3.26		mg/Kg		98	64 - 120
1,2,4-Trichlorobenzene	3.33	3.10		mg/Kg		93	63 - 120
1,2-Dichlorobenzene	3.33	2.96		mg/Kg		89	64 - 120
1,2-Diphenylhydrazine	3.33	3.32		mg/Kg		100	55 - 125
1,3-Dichlorobenzene	3.33	2.93		mg/Kg		88	62 - 120
1,4-Dichlorobenzene	3.33	2.90		mg/Kg		87	60 - 120
2,4,5-Trichlorophenol	3.33	3.45		mg/Kg		104	64 - 120
2,4,6-Trichlorophenol	3.33	3.49		mg/Kg		105	65 - 120
2,4-Dichlorophenol	3.33	3.26		mg/Kg		98	66 - 120
2,4-Dimethylphenol	3.33	3.78		mg/Kg		113	46 - 120
2,4-Dinitrophenol	6.67	6.57		mg/Kg		99	41 - 129

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018556/2-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	3.33	3.56		mg/Kg		107	65 - 124
2,6-Dinitrotoluene	3.33	3.54		mg/Kg		106	67 - 121
2-Chloronaphthalene	3.33	3.14		mg/Kg		94	64 - 120
2-Chlorophenol	3.33	3.07		mg/Kg		92	63 - 120
2-Methylnaphthalene	3.33	2.74		mg/Kg		82	64 - 120
2-Methylphenol	3.33	3.17		mg/Kg		95	63 - 120
2-Nitroaniline	3.33	2.94		mg/Kg		88	48 - 120
2-Nitrophenol	3.33	3.25		mg/Kg		98	64 - 120
3,3'-Dichlorobenzidine	3.33	1.68		mg/Kg		50	10 - 120
3-Nitroaniline	3.33	1.94		mg/Kg		58	18 - 122
4,6-Dinitro-2-methylphenol	6.67	8.07		mg/Kg		121	58 - 136
4-Bromophenyl phenyl ether	3.33	3.33		mg/Kg		100	60 - 120
4-Chloro-3-methylphenol	3.33	3.32		mg/Kg		100	66 - 120
4-Chloroaniline	3.33	0.776		mg/Kg		23	10 - 120
4-Chlorophenyl phenyl ether	3.33	3.27		mg/Kg		98	62 - 120
4-Methylphenol	3.33	2.97		mg/Kg		89	61 - 120
4-Nitroaniline	3.33	3.18		mg/Kg		96	51 - 120
4-Nitrophenol	6.67	7.11		mg/Kg		107	42 - 132
Acenaphthene	3.33	3.24		mg/Kg		97	65 - 120
Acenaphthylene	3.33	3.38		mg/Kg		101	64 - 120
Acetophenone	3.33	3.04		mg/Kg		91	61 - 120
Anthracene	3.33	3.39		mg/Kg		102	67 - 120
Atrazine	1.33	1.54		mg/Kg		115	32 - 150
Benzaldehyde	1.33	1.22		mg/Kg		92	28 - 150
Benzidine	3.33	2.27		mg/Kg		68	10 - 120
Benzo[a]anthracene	3.33	3.39		mg/Kg		102	66 - 120
Benzo[a]pyrene	3.33	3.70		mg/Kg		111	73 - 123
Benzo[b]fluoranthene	3.33	3.60		mg/Kg		108	70 - 125
Benzo[g,h,i]perylene	3.33	3.77		mg/Kg		113	66 - 120
Benzo[k]fluoranthene	3.33	3.54		mg/Kg		106	67 - 122
bis (2-chloroisopropyl) ether	3.33	3.06		mg/Kg		92	46 - 126
Bis(2-chloroethoxy)methane	3.33	3.12		mg/Kg		94	62 - 120
Bis(2-chloroethyl)ether	3.33	3.05		mg/Kg		92	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.51		mg/Kg		105	64 - 125
Butyl benzyl phthalate	3.33	3.36		mg/Kg		101	62 - 127
Caprolactam	1.33	1.49		mg/Kg		112	36 - 150
Carbazole	3.33	3.38		mg/Kg		101	64 - 120
Chrysene	3.33	3.31		mg/Kg		99	67 - 120
Dibenz(a,h)anthracene	3.33	3.63		mg/Kg		109	66 - 128
Dibenzofuran	3.33	3.17		mg/Kg		95	61 - 120
Diethyl phthalate	3.33	3.30		mg/Kg		99	63 - 120
Dimethyl phthalate	3.33	3.25		mg/Kg		98	65 - 120
Di-n-butyl phthalate	3.33	3.22		mg/Kg		97	66 - 120
Di-n-octyl phthalate	3.33	3.54		mg/Kg		106	61 - 123
Fluoranthene	3.33	3.32		mg/Kg		100	61 - 120
Fluorene	3.33	3.34		mg/Kg		100	64 - 120
Hexachlorobenzene	3.33	3.30		mg/Kg		99	66 - 120
Hexachlorobutadiene	3.33	2.97		mg/Kg		89	62 - 120
Hexachlorocyclopentadiene	3.33	4.72	*+	mg/Kg		142	13 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1018556/2-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	3.33	3.00		mg/Kg		90	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	3.72		mg/Kg		112	71 - 137
Isophorone	3.33	3.17		mg/Kg		95	61 - 120
Naphthalene	3.33	3.02		mg/Kg		91	63 - 120
Nitrobenzene	3.33	3.18		mg/Kg		95	63 - 120
N-Nitrosodimethylamine	3.33	2.95		mg/Kg		88	57 - 120
N-Nitrosodi-n-propylamine	3.33	3.20		mg/Kg		96	56 - 120
N-Nitrosodiphenylamine	3.33	3.35		mg/Kg		100	63 - 120
Pentachlorophenol	6.67	7.22		mg/Kg		108	61 - 126
Phenanthrene	3.33	3.33		mg/Kg		100	66 - 120
Phenol	3.33	3.07		mg/Kg		92	63 - 120
Pyrene	3.33	3.39		mg/Kg		102	61 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*92*		*24 - 137*
2-Fluorobiphenyl	*92*		*38 - 128*
2-Fluorophenol (Surr)	*86*		*31 - 133*
Nitrobenzene-d5 (Surr)	*89*		*31 - 120*
Phenol-d5 (Surr)	*88*		*35 - 132*
Terphenyl-d14 (Surr)	*95*		*44 - 147*

Lab Sample ID: LCSD 460-1018556/3-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	3.33	3.20		mg/Kg		96	64 - 120	2	30
1,2,4-Trichlorobenzene	3.33	3.03		mg/Kg		91	63 - 120	2	30
1,2-Dichlorobenzene	3.33	2.88		mg/Kg		86	64 - 120	3	30
1,2-Diphenylhydrazine	3.33	3.28		mg/Kg		98	55 - 125	1	30
1,3-Dichlorobenzene	3.33	2.85		mg/Kg		86	62 - 120	3	30
1,4-Dichlorobenzene	3.33	2.84		mg/Kg		85	60 - 120	2	30
2,4,5-Trichlorophenol	3.33	3.39		mg/Kg		102	64 - 120	2	30
2,4,6-Trichlorophenol	3.33	3.43		mg/Kg		103	65 - 120	2	30
2,4-Dichlorophenol	3.33	3.24		mg/Kg		97	66 - 120	1	30
2,4-Dimethylphenol	3.33	3.73		mg/Kg		112	46 - 120	1	30
2,4-Dinitrophenol	6.67	6.62		mg/Kg		99	41 - 129	1	30
2,4-Dinitrotoluene	3.33	3.48		mg/Kg		105	65 - 124	2	30
2,6-Dinitrotoluene	3.33	3.46		mg/Kg		104	67 - 121	2	30
2-Chloronaphthalene	3.33	3.12		mg/Kg		94	64 - 120	1	30
2-Chlorophenol	3.33	2.96		mg/Kg		89	63 - 120	4	30
2-Methylnaphthalene	3.33	2.72		mg/Kg		81	64 - 120	1	30
2-Methylphenol	3.33	3.10		mg/Kg		93	63 - 120	2	30
2-Nitroaniline	3.33	2.94		mg/Kg		88	48 - 120	0	30
2-Nitrophenol	3.33	3.27		mg/Kg		98	64 - 120	0	30
3,3'-Dichlorobenzidine	3.33	1.60		mg/Kg		48	10 - 120	5	30
3-Nitroaniline	3.33	1.90		mg/Kg		57	18 - 122	2	30
4,6-Dinitro-2-methylphenol	6.67	7.80		mg/Kg		117	58 - 136	3	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1018556/3-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Bromophenyl phenyl ether	3.33	3.29		mg/Kg		99	60 - 120	1	30
4-Chloro-3-methylphenol	3.33	3.26		mg/Kg		98	66 - 120	2	30
4-Chloroaniline	3.33	0.783		mg/Kg		23	10 - 120	1	30
4-Chlorophenyl phenyl ether	3.33	3.21		mg/Kg		96	62 - 120	2	30
4-Methylphenol	3.33	2.92		mg/Kg		87	61 - 120	2	30
4-Nitroaniline	3.33	3.16		mg/Kg		95	51 - 120	1	30
4-Nitrophenol	6.67	6.49		mg/Kg		97	42 - 132	9	30
Acenaphthene	3.33	3.23		mg/Kg		97	65 - 120	0	30
Acenaphthylene	3.33	3.35		mg/Kg		101	64 - 120	1	30
Acetophenone	3.33	2.93		mg/Kg		88	61 - 120	4	30
Anthracene	3.33	3.31		mg/Kg		99	67 - 120	3	30
Atrazine	1.33	1.58		mg/Kg		118	32 - 150	3	30
Benzaldehyde	1.33	1.33		mg/Kg		100	28 - 150	9	30
Benzidine	3.33	2.19		mg/Kg		66	10 - 120	4	30
Benzo[a]anthracene	3.33	3.31		mg/Kg		99	66 - 120	2	30
Benzo[a]pyrene	3.33	3.62		mg/Kg		109	73 - 123	2	30
Benzo[b]fluoranthene	3.33	3.41		mg/Kg		102	70 - 125	5	30
Benzo[g,h,i]perylene	3.33	3.62		mg/Kg		109	66 - 120	4	30
Benzo[k]fluoranthene	3.33	3.47		mg/Kg		104	67 - 122	2	30
bis (2-chloroisopropyl) ether	3.33	2.96		mg/Kg		89	46 - 126	3	30
Bis(2-chloroethoxy)methane	3.33	3.07		mg/Kg		92	62 - 120	2	30
Bis(2-chloroethyl)ether	3.33	2.97		mg/Kg		89	60 - 120	3	30
Bis(2-ethylhexyl) phthalate	3.33	3.42		mg/Kg		102	64 - 125	3	30
Butyl benzyl phthalate	3.33	3.24		mg/Kg		97	62 - 127	3	30
Caprolactam	1.33	1.51		mg/Kg		113	36 - 150	1	30
Carbazole	3.33	3.27		mg/Kg		98	64 - 120	3	30
Chrysene	3.33	3.25		mg/Kg		98	67 - 120	2	30
Dibenz(a,h)anthracene	3.33	3.53		mg/Kg		106	66 - 128	3	30
Dibenzofuran	3.33	3.16		mg/Kg		95	61 - 120	0	30
Diethyl phthalate	3.33	3.21		mg/Kg		96	63 - 120	3	30
Dimethyl phthalate	3.33	3.24		mg/Kg		97	65 - 120	0	30
Di-n-butyl phthalate	3.33	3.16		mg/Kg		95	66 - 120	2	30
Di-n-octyl phthalate	3.33	3.39		mg/Kg		102	61 - 123	4	30
Fluoranthene	3.33	3.23		mg/Kg		97	61 - 120	3	30
Fluorene	3.33	3.29		mg/Kg		99	64 - 120	1	30
Hexachlorobenzene	3.33	3.25		mg/Kg		98	66 - 120	2	30
Hexachlorobutadiene	3.33	2.99		mg/Kg		90	62 - 120	1	30
Hexachlorocyclopentadiene	3.33	4.69	*+	mg/Kg		141	13 - 120	1	30
Hexachloroethane	3.33	2.90		mg/Kg		87	61 - 120	3	30
Indeno[1,2,3-cd]pyrene	3.33	3.55		mg/Kg		106	71 - 137	5	30
Isophorone	3.33	3.13		mg/Kg		94	61 - 120	1	30
Naphthalene	3.33	3.04		mg/Kg		91	63 - 120	1	30
Nitrobenzene	3.33	3.07		mg/Kg		92	63 - 120	3	30
N-Nitrosodimethylamine	3.33	2.90		mg/Kg		87	57 - 120	2	30
N-Nitrosodi-n-propylamine	3.33	3.11		mg/Kg		93	56 - 120	3	30
N-Nitrosodiphenylamine	3.33	3.28		mg/Kg		98	63 - 120	2	30
Pentachlorophenol	6.67	7.07		mg/Kg		106	61 - 126	2	30
Phenanthrene	3.33	3.26		mg/Kg		98	66 - 120	2	30
Phenol	3.33	3.03		mg/Kg		91	63 - 120	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1018556/3-A
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018556

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene			3.33	3.31		mg/Kg		99	61 - 121	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 137*
2-Fluorobiphenyl	*89*		*38 - 128*
2-Fluorophenol (Surr)	*85*		*31 - 133*
Nitrobenzene-d5 (Surr)	*87*		*31 - 120*
Phenol-d5 (Surr)	*85*		*35 - 132*
Terphenyl-d14 (Surr)	*92*		*44 - 147*

Lab Sample ID: 460-319357-5 MS
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: 2A-03-CS-8
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.012	U	3.39	3.19		mg/Kg	☼	94	64 - 120
1,2,4-Trichlorobenzene	0.0086	U	3.39	2.98		mg/Kg	☼	88	63 - 120
1,2-Dichlorobenzene	0.0057	U	3.39	2.80		mg/Kg	☼	83	64 - 120
1,2-Diphenylhydrazine	0.013	U	3.39	3.27		mg/Kg	☼	97	55 - 125
1,3-Dichlorobenzene	0.010	U	3.39	2.76		mg/Kg	☼	81	62 - 120
1,4-Dichlorobenzene	0.013	U	3.39	2.76		mg/Kg	☼	82	60 - 120
2,4,5-Trichlorophenol	0.034	U	3.39	3.34		mg/Kg	☼	99	64 - 120
2,4,6-Trichlorophenol	0.043	U	3.39	3.40		mg/Kg	☼	100	65 - 120
2,4-Dichlorophenol	0.022	U	3.39	3.20		mg/Kg	☼	95	66 - 120
2,4-Dimethylphenol	0.040	U	3.39	3.72		mg/Kg	☼	110	46 - 120
2,4-Dinitrophenol	0.16	U	6.77	5.84		mg/Kg	☼	86	41 - 129
2,4-Dinitrotoluene	0.036	U	3.39	3.37		mg/Kg	☼	100	65 - 124
2,6-Dinitrotoluene	0.024	U	3.39	3.36		mg/Kg	☼	99	67 - 121
2-Chloronaphthalene	0.016	U	3.39	3.12		mg/Kg	☼	92	64 - 120
2-Chlorophenol	0.012	U	3.39	2.89		mg/Kg	☼	85	63 - 120
2-Methylnaphthalene	0.0094	U	3.39	2.70		mg/Kg	☼	80	64 - 120
2-Methylphenol	0.013	U	3.39	3.05		mg/Kg	☼	90	63 - 120
2-Nitroaniline	0.026	U	3.39	2.78		mg/Kg	☼	82	48 - 120
2-Nitrophenol	0.034	U	3.39	3.14		mg/Kg	☼	93	64 - 120
3,3'-Dichlorobenzidine	0.051	U	3.39	2.27		mg/Kg	☼	67	10 - 120
3-Nitroaniline	0.080	U	3.39	2.66		mg/Kg	☼	79	18 - 122
4,6-Dinitro-2-methylphenol	0.14	U	6.77	7.53		mg/Kg	☼	111	58 - 136
4-Bromophenyl phenyl ether	0.013	U	3.39	3.28		mg/Kg	☼	97	60 - 120
4-Chloro-3-methylphenol	0.019	U	3.39	3.17		mg/Kg	☼	93	66 - 120
4-Chloroaniline	0.060	U	3.39	2.26		mg/Kg	☼	67	10 - 120
4-Chlorophenyl phenyl ether	0.012	U	3.39	3.19		mg/Kg	☼	94	62 - 120
4-Methylphenol	0.021	U	3.39	2.89		mg/Kg	☼	85	61 - 120
4-Nitroaniline	0.039	U	3.39	3.00		mg/Kg	☼	89	51 - 120
4-Nitrophenol	0.055	U	6.77	5.94		mg/Kg	☼	88	42 - 132
Acenaphthene	0.0096	U	3.39	3.14		mg/Kg	☼	93	65 - 120
Acenaphthylene	0.0096	U	3.39	3.29		mg/Kg	☼	97	64 - 120
Acetophenone	0.016	U	3.39	2.88		mg/Kg	☼	85	61 - 120
Anthracene	0.010	U	3.39	3.25		mg/Kg	☼	96	67 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319357-5 MS
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: 2A-03-CS-8
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Atrazine	0.020	U	1.35	1.27		mg/Kg	☼	94	32 - 150
Benzaldehyde	0.055	U	1.35	1.07		mg/Kg	☼	79	28 - 150
Benzidine	0.070	U	3.39	2.22		mg/Kg	☼	66	10 - 120
Benzo[a]anthracene	0.025	U	3.39	3.22		mg/Kg	☼	95	66 - 120
Benzo[a]pyrene	0.0089	U	3.39	3.51		mg/Kg	☼	104	73 - 123
Benzo[b]fluoranthene	0.0087	U	3.39	3.41		mg/Kg	☼	101	70 - 125
Benzo[g,h,i]perylene	0.0099	U	3.39	3.48		mg/Kg	☼	103	66 - 120
Benzo[k]fluoranthene	0.0066	U	3.39	3.37		mg/Kg	☼	99	67 - 122
bis (2-chloroisopropyl) ether	0.020	U	3.39	2.87		mg/Kg	☼	85	46 - 126
Bis(2-chloroethoxy)methane	0.026	U	3.39	3.05		mg/Kg	☼	90	62 - 120
Bis(2-chloroethyl)ether	0.012	U	3.39	2.86		mg/Kg	☼	85	60 - 120
Bis(2-ethylhexyl) phthalate	0.018	U	3.39	3.27		mg/Kg	☼	96	64 - 125
Butyl benzyl phthalate	0.016	U	3.39	3.10		mg/Kg	☼	92	62 - 127
Caprolactam	0.052	U	1.35	1.25		mg/Kg	☼	92	36 - 150
Carbazole	0.013	U	3.39	3.22		mg/Kg	☼	95	64 - 120
Chrysene	0.014	U	3.39	3.16		mg/Kg	☼	93	67 - 120
Dibenz(a,h)anthracene	0.015	U	3.39	3.40		mg/Kg	☼	100	66 - 128
Dibenzofuran	0.011	U	3.39	3.16		mg/Kg	☼	93	61 - 120
Diethyl phthalate	0.011	U	3.39	3.11		mg/Kg	☼	92	63 - 120
Dimethyl phthalate	0.076	U	3.39	3.14		mg/Kg	☼	93	65 - 120
Di-n-butyl phthalate	0.013	U	3.39	3.06		mg/Kg	☼	90	66 - 120
Di-n-octyl phthalate	0.018	U	3.39	3.26		mg/Kg	☼	96	61 - 123
Fluoranthene	0.012	U	3.39	3.13		mg/Kg	☼	92	61 - 120
Fluorene	0.0098	U	3.39	3.22		mg/Kg	☼	95	64 - 120
Hexachlorobenzene	0.016	U	3.39	3.24		mg/Kg	☼	96	66 - 120
Hexachlorobutadiene	0.0071	U	3.39	2.85		mg/Kg	☼	84	62 - 120
Hexachlorocyclopentadiene	0.029	U *+ F1	3.39	4.59	F1	mg/Kg	☼	136	13 - 120
Hexachloroethane	0.012	U	3.39	2.86		mg/Kg	☼	85	61 - 120
Indeno[1,2,3-cd]pyrene	0.013	U	3.39	3.42		mg/Kg	☼	101	71 - 137
Isophorone	0.097	U	3.39	3.14		mg/Kg	☼	93	61 - 120
Naphthalene	0.0058	U	3.39	2.97		mg/Kg	☼	88	63 - 120
Nitrobenzene	0.019	U	3.39	2.96		mg/Kg	☼	87	63 - 120
N-Nitrosodimethylamine	0.031	U	3.39	2.85		mg/Kg	☼	84	57 - 120
N-Nitrosodi-n-propylamine	0.024	U	3.39	3.02		mg/Kg	☼	89	56 - 120
N-Nitrosodiphenylamine	0.028	U	3.39	3.25		mg/Kg	☼	96	63 - 120
Pentachlorophenol	0.069	U	6.77	6.97		mg/Kg	☼	103	61 - 126
Phenanthrene	0.014	U	3.39	3.19		mg/Kg	☼	94	66 - 120
Phenol	0.012	U	3.39	2.97		mg/Kg	☼	88	63 - 120
Pyrene	0.0083	U	3.39	3.26		mg/Kg	☼	96	61 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*24 - 137*
2-Fluorobiphenyl	*86*		*38 - 128*
2-Fluorophenol (Surr)	*78*		*31 - 133*
Nitrobenzene-d5 (Surr)	*82*		*31 - 120*
Phenol-d5 (Surr)	*80*		*35 - 132*
Terphenyl-d14 (Surr)	*88*		*44 - 147*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319357-5 MSD
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: 2A-03-CS-8
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	0.012	U	3.38	3.14		mg/Kg	☼	93	64 - 120	1	30
1,2,4-Trichlorobenzene	0.0086	U	3.38	2.91		mg/Kg	☼	86	63 - 120	2	30
1,2-Dichlorobenzene	0.0057	U	3.38	2.72		mg/Kg	☼	80	64 - 120	3	30
1,2-Diphenylhydrazine	0.013	U	3.38	3.15		mg/Kg	☼	93	55 - 125	4	30
1,3-Dichlorobenzene	0.010	U	3.38	2.65		mg/Kg	☼	78	62 - 120	4	30
1,4-Dichlorobenzene	0.013	U	3.38	2.70		mg/Kg	☼	80	60 - 120	2	30
2,4,5-Trichlorophenol	0.034	U	3.38	3.23		mg/Kg	☼	95	64 - 120	3	30
2,4,6-Trichlorophenol	0.043	U	3.38	3.33		mg/Kg	☼	99	65 - 120	2	30
2,4-Dichlorophenol	0.022	U	3.38	3.11		mg/Kg	☼	92	66 - 120	3	30
2,4-Dimethylphenol	0.040	U	3.38	3.54		mg/Kg	☼	104	46 - 120	5	30
2,4-Dinitrophenol	0.16	U	6.77	4.56		mg/Kg	☼	67	41 - 129	25	30
2,4-Dinitrotoluene	0.036	U	3.38	3.37		mg/Kg	☼	100	65 - 124	0	30
2,6-Dinitrotoluene	0.024	U	3.38	3.37		mg/Kg	☼	100	67 - 121	0	30
2-Chloronaphthalene	0.016	U	3.38	3.04		mg/Kg	☼	90	64 - 120	2	30
2-Chlorophenol	0.012	U	3.38	2.83		mg/Kg	☼	84	63 - 120	2	30
2-Methylnaphthalene	0.0094	U	3.38	2.64		mg/Kg	☼	78	64 - 120	2	30
2-Methylphenol	0.013	U	3.38	3.01		mg/Kg	☼	89	63 - 120	1	30
2-Nitroaniline	0.026	U	3.38	2.76		mg/Kg	☼	82	48 - 120	1	30
2-Nitrophenol	0.034	U	3.38	3.08		mg/Kg	☼	91	64 - 120	2	30
3,3'-Dichlorobenzidine	0.051	U	3.38	2.30		mg/Kg	☼	68	10 - 120	1	30
3-Nitroaniline	0.080	U	3.38	2.73		mg/Kg	☼	81	18 - 122	2	30
4,6-Dinitro-2-methylphenol	0.14	U	6.77	6.81		mg/Kg	☼	101	58 - 136	10	30
4-Bromophenyl phenyl ether	0.013	U	3.38	3.20		mg/Kg	☼	94	60 - 120	3	30
4-Chloro-3-methylphenol	0.019	U	3.38	3.11		mg/Kg	☼	92	66 - 120	2	30
4-Chloroaniline	0.060	U	3.38	2.33		mg/Kg	☼	69	10 - 120	3	30
4-Chlorophenyl phenyl ether	0.012	U	3.38	3.12		mg/Kg	☼	92	62 - 120	2	30
4-Methylphenol	0.021	U	3.38	2.85		mg/Kg	☼	84	61 - 120	1	30
4-Nitroaniline	0.039	U	3.38	3.01		mg/Kg	☼	89	51 - 120	0	30
4-Nitrophenol	0.055	U	6.77	6.22		mg/Kg	☼	92	42 - 132	5	30
Acenaphthene	0.0096	U	3.38	3.07		mg/Kg	☼	91	65 - 120	2	30
Acenaphthylene	0.0096	U	3.38	3.24		mg/Kg	☼	96	64 - 120	1	30
Acetophenone	0.016	U	3.38	2.85		mg/Kg	☼	84	61 - 120	1	30
Anthracene	0.010	U	3.38	3.24		mg/Kg	☼	96	67 - 120	1	30
Atrazine	0.020	U	1.35	1.41	E	mg/Kg	☼	104	32 - 150	10	30
Benzaldehyde	0.055	U	1.35	1.15	E	mg/Kg	☼	85	28 - 150	7	30
Benzidine	0.070	U	3.38	2.26		mg/Kg	☼	67	10 - 120	2	30
Benzo[a]anthracene	0.025	U	3.38	3.16		mg/Kg	☼	93	66 - 120	2	30
Benzo[a]pyrene	0.0089	U	3.38	3.49		mg/Kg	☼	103	73 - 123	1	30
Benzo[b]fluoranthene	0.0087	U	3.38	3.25		mg/Kg	☼	96	70 - 125	5	30
Benzo[g,h,i]perylene	0.0099	U	3.38	3.45		mg/Kg	☼	102	66 - 120	1	30
Benzo[k]fluoranthene	0.0066	U	3.38	3.49		mg/Kg	☼	103	67 - 122	4	30
bis (2-chloroisopropyl) ether	0.020	U	3.38	2.78		mg/Kg	☼	82	46 - 126	3	30
Bis(2-chloroethoxy)methane	0.026	U	3.38	2.94		mg/Kg	☼	87	62 - 120	3	30
Bis(2-chloroethyl)ether	0.012	U	3.38	2.80		mg/Kg	☼	83	60 - 120	2	30
Bis(2-ethylhexyl) phthalate	0.018	U	3.38	3.10		mg/Kg	☼	92	64 - 125	5	30
Butyl benzyl phthalate	0.016	U	3.38	3.03		mg/Kg	☼	90	62 - 127	2	30
Caprolactam	0.052	U	1.35	1.11		mg/Kg	☼	82	36 - 150	12	30
Carbazole	0.013	U	3.38	3.19		mg/Kg	☼	94	64 - 120	1	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-319357-5 MSD
Matrix: Solid
Analysis Batch: 1018599

Client Sample ID: 2A-03-CS-8
Prep Type: Total/NA
Prep Batch: 1018556

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chrysene	0.014	U	3.38	3.09		mg/Kg	☼	91	67 - 120	2	30
Dibenz(a,h)anthracene	0.015	U	3.38	3.37		mg/Kg	☼	99	66 - 128	1	30
Dibenzofuran	0.011	U	3.38	3.08		mg/Kg	☼	91	61 - 120	2	30
Diethyl phthalate	0.011	U	3.38	3.07		mg/Kg	☼	91	63 - 120	1	30
Dimethyl phthalate	0.076	U	3.38	3.12		mg/Kg	☼	92	65 - 120	1	30
Di-n-butyl phthalate	0.013	U	3.38	3.02		mg/Kg	☼	89	66 - 120	1	30
Di-n-octyl phthalate	0.018	U	3.38	2.97		mg/Kg	☼	88	61 - 123	9	30
Fluoranthene	0.012	U	3.38	3.15		mg/Kg	☼	93	61 - 120	1	30
Fluorene	0.0098	U	3.38	3.17		mg/Kg	☼	94	64 - 120	2	30
Hexachlorobenzene	0.016	U	3.38	3.21		mg/Kg	☼	95	66 - 120	1	30
Hexachlorobutadiene	0.0071	U	3.38	2.74		mg/Kg	☼	81	62 - 120	4	30
Hexachlorocyclopentadiene	0.029	U *+ F1	3.38	4.54	F1	mg/Kg	☼	134	13 - 120	1	30
Hexachloroethane	0.012	U	3.38	2.71		mg/Kg	☼	80	61 - 120	5	30
Indeno[1,2,3-cd]pyrene	0.013	U	3.38	3.38		mg/Kg	☼	100	71 - 137	1	30
Isophorone	0.097	U	3.38	3.00		mg/Kg	☼	89	61 - 120	5	30
Naphthalene	0.0058	U	3.38	2.89		mg/Kg	☼	85	63 - 120	3	30
Nitrobenzene	0.019	U	3.38	2.94		mg/Kg	☼	87	63 - 120	1	30
N-Nitrosodimethylamine	0.031	U	3.38	2.68		mg/Kg	☼	79	57 - 120	6	30
N-Nitrosodi-n-propylamine	0.024	U	3.38	2.98		mg/Kg	☼	88	56 - 120	2	30
N-Nitrosodiphenylamine	0.028	U	3.38	3.18		mg/Kg	☼	94	63 - 120	2	30
Pentachlorophenol	0.069	U	6.77	6.54		mg/Kg	☼	97	61 - 126	6	30
Phenanthrene	0.014	U	3.38	3.16		mg/Kg	☼	93	66 - 120	1	30
Phenol	0.012	U	3.38	2.93		mg/Kg	☼	87	63 - 120	1	30
Pyrene	0.0083	U	3.38	3.18		mg/Kg	☼	94	61 - 121	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*84*		*24 - 137*
2-Fluorobiphenyl	*85*		*38 - 128*
2-Fluorophenol (Surr)	*78*		*31 - 133*
Nitrobenzene-d5 (Surr)	*79*		*31 - 120*
Phenol-d5 (Surr)	*80*		*35 - 132*
Terphenyl-d14 (Surr)	*86*		*44 - 147*

Lab Sample ID: MB 460-1020235/1-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.012	U	0.33	0.012	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
1,2,4-Trichlorobenzene	0.0085	U	0.033	0.0085	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
1,2-Dichlorobenzene	0.0056	U	0.33	0.0056	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
1,2-Diphenylhydrazine	0.013	U	0.33	0.013	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
1,3-Dichlorobenzene	0.010	U	0.33	0.010	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
1,4-Dichlorobenzene	0.013	U	0.33	0.013	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		02/07/25 19:33	02/08/25 15:48	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1020235/1-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Benzidine	0.069	U	0.33	0.069	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
bis (2-chloroisopropyl) ether	0.020	U	0.33	0.020	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		02/07/25 19:33	02/08/25 15:48	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-1020235/1-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Phenol	0.012	U	0.33	0.012	mg/Kg		02/07/25 19:33	02/08/25 15:48	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		02/07/25 19:33	02/08/25 15:48	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*02/07/25 19:33*	*02/08/25 15:48*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*24 - 137*	*02/07/25 19:33*	*02/08/25 15:48*	*1*
2-Fluorobiphenyl	*72*		*38 - 128*	*02/07/25 19:33*	*02/08/25 15:48*	*1*
2-Fluorophenol (Surr)	*72*		*31 - 133*	*02/07/25 19:33*	*02/08/25 15:48*	*1*
Nitrobenzene-d5 (Surr)	*72*		*31 - 120*	*02/07/25 19:33*	*02/08/25 15:48*	*1*
Phenol-d5 (Surr)	*72*		*35 - 132*	*02/07/25 19:33*	*02/08/25 15:48*	*1*
Terphenyl-d14 (Surr)	*74*		*44 - 147*	*02/07/25 19:33*	*02/08/25 15:48*	*1*

Lab Sample ID: LCS 460-1020235/2-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	3.33	2.73		mg/Kg		82	64 - 120
1,2,4-Trichlorobenzene	3.33	2.69		mg/Kg		81	63 - 120
1,2-Dichlorobenzene	3.33	2.60		mg/Kg		78	64 - 120
1,2-Diphenylhydrazine	3.33	2.62		mg/Kg		79	55 - 125
1,3-Dichlorobenzene	3.33	2.57		mg/Kg		77	62 - 120
1,4-Dichlorobenzene	3.33	2.63		mg/Kg		79	60 - 120
2,4,5-Trichlorophenol	3.33	2.78		mg/Kg		83	64 - 120
2,4,6-Trichlorophenol	3.33	2.75		mg/Kg		83	65 - 120
2,4-Dichlorophenol	3.33	2.77		mg/Kg		83	66 - 120
2,4-Dimethylphenol	3.33	3.24		mg/Kg		97	46 - 120
2,4-Dinitrophenol	6.67	4.53		mg/Kg		68	41 - 129
2,4-Dinitrotoluene	3.33	2.79		mg/Kg		84	65 - 124
2,6-Dinitrotoluene	3.33	2.81		mg/Kg		84	67 - 121
2-Chloronaphthalene	3.33	2.76		mg/Kg		83	64 - 120
2-Chlorophenol	3.33	2.68		mg/Kg		80	63 - 120
2-Methylnaphthalene	3.33	2.39		mg/Kg		72	64 - 120
2-Methylphenol	3.33	2.72		mg/Kg		82	63 - 120
2-Nitroaniline	3.33	2.62		mg/Kg		79	48 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1020235/2-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitrophenol	3.33	2.68		mg/Kg		80	64 - 120
3,3'-Dichlorobenzidine	3.33	1.47		mg/Kg		44	10 - 120
3-Nitroaniline	3.33	1.92		mg/Kg		58	18 - 122
4,6-Dinitro-2-methylphenol	6.67	5.35		mg/Kg		80	58 - 136
4-Bromophenyl phenyl ether	3.33	2.77		mg/Kg		83	60 - 120
4-Chloro-3-methylphenol	3.33	2.66		mg/Kg		80	66 - 120
4-Chloroaniline	3.33	1.26		mg/Kg		38	10 - 120
4-Chlorophenyl phenyl ether	3.33	2.78		mg/Kg		83	62 - 120
4-Methylphenol	3.33	2.65		mg/Kg		80	61 - 120
4-Nitroaniline	3.33	2.48		mg/Kg		74	51 - 120
4-Nitrophenol	6.67	4.73		mg/Kg		71	42 - 132
Acenaphthene	3.33	2.73		mg/Kg		82	65 - 120
Acenaphthylene	3.33	2.92		mg/Kg		88	64 - 120
Acetophenone	3.33	2.59		mg/Kg		78	61 - 120
Anthracene	3.33	2.74		mg/Kg		82	67 - 120
Atrazine	1.33	1.32		mg/Kg		99	32 - 150
Benzaldehyde	1.33	1.22		mg/Kg		92	28 - 150
Benzidine	3.33	2.81		mg/Kg		84	10 - 120
Benzo[a]anthracene	3.33	2.77		mg/Kg		83	66 - 120
Benzo[a]pyrene	3.33	2.95		mg/Kg		88	73 - 123
Benzo[b]fluoranthene	3.33	2.96		mg/Kg		89	70 - 125
Benzo[g,h,i]perylene	3.33	3.13		mg/Kg		94	66 - 120
Benzo[k]fluoranthene	3.33	2.75		mg/Kg		82	67 - 122
bis (2-chloroisopropyl) ether	3.33	2.60		mg/Kg		78	46 - 126
Bis(2-chloroethoxy)methane	3.33	2.65		mg/Kg		80	62 - 120
Bis(2-chloroethyl)ether	3.33	2.63		mg/Kg		79	60 - 120
Bis(2-ethylhexyl) phthalate	3.33	2.75		mg/Kg		83	64 - 125
Butyl benzyl phthalate	3.33	2.74		mg/Kg		82	62 - 127
Caprolactam	1.33	1.33		mg/Kg		100	36 - 150
Carbazole	3.33	2.73		mg/Kg		82	64 - 120
Chrysene	3.33	2.72		mg/Kg		82	67 - 120
Dibenz(a,h)anthracene	3.33	2.90		mg/Kg		87	66 - 128
Dibenzofuran	3.33	2.71		mg/Kg		81	61 - 120
Diethyl phthalate	3.33	2.71		mg/Kg		81	63 - 120
Dimethyl phthalate	3.33	2.75		mg/Kg		82	65 - 120
Di-n-butyl phthalate	3.33	2.77		mg/Kg		83	66 - 120
Di-n-octyl phthalate	3.33	2.83		mg/Kg		85	61 - 123
Fluoranthene	3.33	2.72		mg/Kg		82	61 - 120
Fluorene	3.33	2.77		mg/Kg		83	64 - 120
Hexachlorobenzene	3.33	2.84		mg/Kg		85	66 - 120
Hexachlorobutadiene	3.33	2.68		mg/Kg		80	62 - 120
Hexachlorocyclopentadiene	3.33	3.75		mg/Kg		113	13 - 120
Hexachloroethane	3.33	2.63		mg/Kg		79	61 - 120
Indeno[1,2,3-cd]pyrene	3.33	2.96		mg/Kg		89	71 - 137
Isophorone	3.33	2.70		mg/Kg		81	61 - 120
Naphthalene	3.33	2.69		mg/Kg		81	63 - 120
Nitrobenzene	3.33	2.72		mg/Kg		82	63 - 120
N-Nitrosodimethylamine	3.33	2.54		mg/Kg		76	57 - 120
N-Nitrosodi-n-propylamine	3.33	2.75		mg/Kg		83	56 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-1020235/2-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-Nitrosodiphenylamine			3.33	2.77		mg/Kg		83	63 - 120		
Pentachlorophenol			6.67	5.30		mg/Kg		80	61 - 126		
Phenanthrene			3.33	2.77		mg/Kg		83	66 - 120		
Phenol			3.33	2.65		mg/Kg		79	63 - 120		
Pyrene			3.33	2.74		mg/Kg		82	61 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*73*		*24 - 137*
2-Fluorobiphenyl	*72*		*38 - 128*
2-Fluorophenol (Surr)	*74*		*31 - 133*
Nitrobenzene-d5 (Surr)	*71*		*31 - 120*
Phenol-d5 (Surr)	*73*		*35 - 132*
Terphenyl-d14 (Surr)	*73*		*44 - 147*

Lab Sample ID: LCSD 460-1020235/3-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1020235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			3.33	2.82		mg/Kg		85	64 - 120	3	30
1,2,4-Trichlorobenzene			3.33	2.67		mg/Kg		80	63 - 120	1	30
1,2-Dichlorobenzene			3.33	2.67		mg/Kg		80	64 - 120	3	30
1,2-Diphenylhydrazine			3.33	2.71		mg/Kg		81	55 - 125	3	30
1,3-Dichlorobenzene			3.33	2.65		mg/Kg		79	62 - 120	3	30
1,4-Dichlorobenzene			3.33	2.69		mg/Kg		81	60 - 120	2	30
2,4,5-Trichlorophenol			3.33	2.82		mg/Kg		85	64 - 120	2	30
2,4,6-Trichlorophenol			3.33	2.88		mg/Kg		86	65 - 120	4	30
2,4-Dichlorophenol			3.33	2.79		mg/Kg		84	66 - 120	1	30
2,4-Dimethylphenol			3.33	3.34		mg/Kg		100	46 - 120	3	30
2,4-Dinitrophenol			6.67	4.77		mg/Kg		72	41 - 129	5	30
2,4-Dinitrotoluene			3.33	2.93		mg/Kg		88	65 - 124	5	30
2,6-Dinitrotoluene			3.33	2.87		mg/Kg		86	67 - 121	2	30
2-Chloronaphthalene			3.33	2.84		mg/Kg		85	64 - 120	3	30
2-Chlorophenol			3.33	2.74		mg/Kg		82	63 - 120	2	30
2-Methylnaphthalene			3.33	2.50		mg/Kg		75	64 - 120	4	30
2-Methylphenol			3.33	2.76		mg/Kg		83	63 - 120	1	30
2-Nitroaniline			3.33	2.68		mg/Kg		81	48 - 120	2	30
2-Nitrophenol			3.33	2.77		mg/Kg		83	64 - 120	3	30
3,3'-Dichlorobenzidine			3.33	1.66		mg/Kg		50	10 - 120	12	30
3-Nitroaniline			3.33	2.07		mg/Kg		62	18 - 122	8	30
4,6-Dinitro-2-methylphenol			6.67	5.67		mg/Kg		85	58 - 136	6	30
4-Bromophenyl phenyl ether			3.33	2.94		mg/Kg		88	60 - 120	6	30
4-Chloro-3-methylphenol			3.33	2.71		mg/Kg		81	66 - 120	2	30
4-Chloroaniline			3.33	1.45		mg/Kg		43	10 - 120	14	30
4-Chlorophenyl phenyl ether			3.33	2.82		mg/Kg		85	62 - 120	2	30
4-Methylphenol			3.33	2.73		mg/Kg		82	61 - 120	3	30
4-Nitroaniline			3.33	2.53		mg/Kg		76	51 - 120	2	30
4-Nitrophenol			6.67	5.02		mg/Kg		75	42 - 132	6	30

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1020235/3-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1020235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			3.33	2.83		mg/Kg		85	65 - 120	3	30
Acenaphthylene			3.33	3.01		mg/Kg		90	64 - 120	3	30
Acetophenone			3.33	2.62		mg/Kg		79	61 - 120	1	30
Anthracene			3.33	2.86		mg/Kg		86	67 - 120	4	30
Atrazine			1.33	1.37		mg/Kg		103	32 - 150	4	30
Benzaldehyde			1.33	1.25		mg/Kg		94	28 - 150	2	30
Benzidine			3.33	3.12		mg/Kg		94	10 - 120	11	30
Benzo[a]anthracene			3.33	2.89		mg/Kg		87	66 - 120	4	30
Benzo[a]pyrene			3.33	3.05		mg/Kg		92	73 - 123	3	30
Benzo[b]fluoranthene			3.33	3.07		mg/Kg		92	70 - 125	4	30
Benzo[g,h,i]perylene			3.33	3.24		mg/Kg		97	66 - 120	3	30
Benzo[k]fluoranthene			3.33	2.84		mg/Kg		85	67 - 122	3	30
bis (2-chloroisopropyl) ether			3.33	2.65		mg/Kg		79	46 - 126	2	30
Bis(2-chloroethoxy)methane			3.33	2.77		mg/Kg		83	62 - 120	4	30
Bis(2-chloroethyl)ether			3.33	2.71		mg/Kg		81	60 - 120	3	30
Bis(2-ethylhexyl) phthalate			3.33	2.88		mg/Kg		86	64 - 125	5	30
Butyl benzyl phthalate			3.33	2.89		mg/Kg		87	62 - 127	5	30
Caprolactam			1.33	1.36		mg/Kg		102	36 - 150	2	30
Carbazole			3.33	2.83		mg/Kg		85	64 - 120	4	30
Chrysene			3.33	2.79		mg/Kg		84	67 - 120	3	30
Dibenz(a,h)anthracene			3.33	3.00		mg/Kg		90	66 - 128	3	30
Dibenzofuran			3.33	2.80		mg/Kg		84	61 - 120	3	30
Diethyl phthalate			3.33	2.78		mg/Kg		83	63 - 120	3	30
Dimethyl phthalate			3.33	2.83		mg/Kg		85	65 - 120	3	30
Di-n-butyl phthalate			3.33	2.88		mg/Kg		86	66 - 120	4	30
Di-n-octyl phthalate			3.33	2.97		mg/Kg		89	61 - 123	5	30
Fluoranthene			3.33	2.81		mg/Kg		84	61 - 120	3	30
Fluorene			3.33	2.83		mg/Kg		85	64 - 120	2	30
Hexachlorobenzene			3.33	2.96		mg/Kg		89	66 - 120	4	30
Hexachlorobutadiene			3.33	2.74		mg/Kg		82	62 - 120	2	30
Hexachlorocyclopentadiene			3.33	3.81		mg/Kg		114	13 - 120	1	30
Hexachloroethane			3.33	2.72		mg/Kg		81	61 - 120	3	30
Indeno[1,2,3-cd]pyrene			3.33	3.06		mg/Kg		92	71 - 137	3	30
Isophorone			3.33	2.76		mg/Kg		83	61 - 120	2	30
Naphthalene			3.33	2.73		mg/Kg		82	63 - 120	2	30
Nitrobenzene			3.33	2.81		mg/Kg		84	63 - 120	3	30
N-Nitrosodimethylamine			3.33	2.58		mg/Kg		77	57 - 120	2	30
N-Nitrosodi-n-propylamine			3.33	2.85		mg/Kg		86	56 - 120	4	30
N-Nitrosodiphenylamine			3.33	2.85		mg/Kg		86	63 - 120	3	30
Pentachlorophenol			6.67	5.42		mg/Kg		81	61 - 126	2	30
Phenanthrene			3.33	2.83		mg/Kg		85	66 - 120	2	30
Phenol			3.33	2.71		mg/Kg		81	63 - 120	2	30
Pyrene			3.33	2.85		mg/Kg		86	61 - 121	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*24 - 137*
2-Fluorobiphenyl	*73*		*38 - 128*
2-Fluorophenol (Surr)	*77*		*31 - 133*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-1020235/3-A
Matrix: Solid
Analysis Batch: 1020312

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1020235

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	72		31 - 120
Phenol-d5 (Surr)	75		35 - 132
Terphenyl-d14 (Surr)	76		44 - 147

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-1018769/1-A
Matrix: Solid
Analysis Batch: 1018827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		01/30/25 10:19	01/30/25 17:43	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1018769/1-A
Matrix: Solid
Analysis Batch: 1018827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/30/25 10:19	01/30/25 17:43	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		01/30/25 10:19	01/30/25 17:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*17 - 150*	*01/30/25 10:19*	*01/30/25 17:43*	*1*
DCB Decachlorobiphenyl	*52*		*17 - 150*	*01/30/25 10:19*	*01/30/25 17:43*	*1*
Tetrachloro-m-xylene	*49*		*21 - 150*	*01/30/25 10:19*	*01/30/25 17:43*	*1*
Tetrachloro-m-xylene	*47*		*21 - 150*	*01/30/25 10:19*	*01/30/25 17:43*	*1*

Lab Sample ID: LCS 460-1018769/2-A
Matrix: Solid
Analysis Batch: 1018827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.146		mg/Kg		109	70 - 138
4,4'-DDD	0.133	0.155		mg/Kg		116	70 - 138
4,4'-DDE	0.133	0.156		mg/Kg		117	68 - 136
4,4'-DDE	0.133	0.159		mg/Kg		119	68 - 136
4,4'-DDT	0.133	0.155		mg/Kg		116	66 - 149
4,4'-DDT	0.133	0.164		mg/Kg		123	66 - 149
Aldrin	0.133	0.151		mg/Kg		113	69 - 136
Aldrin	0.133	0.156		mg/Kg		117	69 - 136
alpha-BHC	0.133	0.159		mg/Kg		119	72 - 134
alpha-BHC	0.133	0.163		mg/Kg		122	72 - 134
beta-BHC	0.133	0.150		mg/Kg		112	71 - 130
beta-BHC	0.133	0.152		mg/Kg		114	71 - 130
delta-BHC	0.133	0.155		mg/Kg		116	69 - 140
delta-BHC	0.133	0.159		mg/Kg		119	69 - 140
Dieldrin	0.133	0.152		mg/Kg		114	69 - 134
Dieldrin	0.133	0.157		mg/Kg		118	69 - 134
Endosulfan I	0.133	0.155		mg/Kg		116	69 - 133
Endosulfan I	0.133	0.159		mg/Kg		119	69 - 133
Endosulfan II	0.133	0.154		mg/Kg		115	71 - 137
Endosulfan II	0.133	0.165		mg/Kg		124	71 - 137
Endosulfan sulfate	0.133	0.144		mg/Kg		108	61 - 140
Endosulfan sulfate	0.133	0.148		mg/Kg		111	61 - 140
Endrin	0.133	0.149		mg/Kg		112	67 - 141
Endrin	0.133	0.161		mg/Kg		120	67 - 141
Endrin aldehyde	0.133	0.150		mg/Kg		113	71 - 136
Endrin aldehyde	0.133	0.152		mg/Kg		114	71 - 136
Endrin ketone	0.133	0.146		mg/Kg		110	60 - 146
Endrin ketone	0.133	0.147		mg/Kg		110	60 - 146
gamma-BHC (Lindane)	0.133	0.156		mg/Kg		117	72 - 139
gamma-BHC (Lindane)	0.133	0.160		mg/Kg		120	72 - 139
Heptachlor	0.133	0.156		mg/Kg		117	74 - 138
Heptachlor	0.133	0.164		mg/Kg		123	74 - 138
Heptachlor epoxide	0.133	0.153		mg/Kg		115	72 - 134
Heptachlor epoxide	0.133	0.159		mg/Kg		119	72 - 134

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1018769/2-A
Matrix: Solid
Analysis Batch: 1018827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methoxychlor			0.133	0.150		mg/Kg		113	60 - 150		
Methoxychlor			0.133	0.163		mg/Kg		122	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*17 - 150*
DCB Decachlorobiphenyl	*100*		*17 - 150*
Tetrachloro-m-xylene	*99*		*21 - 150*
Tetrachloro-m-xylene	*99*		*21 - 150*

Lab Sample ID: LCSD 460-1018769/3-A
Matrix: Solid
Analysis Batch: 1018827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018769

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.133	0.156		mg/Kg		117	70 - 138	7	30
4,4'-DDD			0.133	0.154		mg/Kg		116	70 - 138	1	30
4,4'-DDE			0.133	0.164		mg/Kg		123	68 - 136	5	30
4,4'-DDE			0.133	0.156		mg/Kg		117	68 - 136	2	30
4,4'-DDT			0.133	0.156		mg/Kg		117	66 - 149	1	30
4,4'-DDT			0.133	0.163		mg/Kg		122	66 - 149	1	30
Aldrin			0.133	0.156		mg/Kg		117	69 - 136	3	30
Aldrin			0.133	0.153		mg/Kg		115	69 - 136	2	30
alpha-BHC			0.133	0.162		mg/Kg		121	72 - 134	2	30
alpha-BHC			0.133	0.161		mg/Kg		120	72 - 134	2	30
beta-BHC			0.133	0.153		mg/Kg		115	71 - 130	2	30
beta-BHC			0.133	0.150		mg/Kg		112	71 - 130	2	30
delta-BHC			0.133	0.157		mg/Kg		118	69 - 140	1	30
delta-BHC			0.133	0.156		mg/Kg		117	69 - 140	2	30
Dieldrin			0.133	0.159		mg/Kg		120	69 - 134	5	30
Dieldrin			0.133	0.156		mg/Kg		117	69 - 134	1	30
Endosulfan I			0.133	0.163		mg/Kg		122	69 - 133	5	30
Endosulfan I			0.133	0.156		mg/Kg		117	69 - 133	2	30
Endosulfan II			0.133	0.166		mg/Kg		124	71 - 137	7	30
Endosulfan II			0.133	0.165		mg/Kg		124	71 - 137	0	30
Endosulfan sulfate			0.133	0.151		mg/Kg		114	61 - 140	5	30
Endosulfan sulfate			0.133	0.150		mg/Kg		113	61 - 140	2	30
Endrin			0.133	0.154		mg/Kg		115	67 - 141	3	30
Endrin			0.133	0.160		mg/Kg		120	67 - 141	1	30
Endrin aldehyde			0.133	0.159		mg/Kg		119	71 - 136	5	30
Endrin aldehyde			0.133	0.154		mg/Kg		116	71 - 136	1	30
Endrin ketone			0.133	0.155		mg/Kg		117	60 - 146	6	30
Endrin ketone			0.133	0.149		mg/Kg		112	60 - 146	2	30
gamma-BHC (Lindane)			0.133	0.159		mg/Kg		119	72 - 139	2	30
gamma-BHC (Lindane)			0.133	0.158		mg/Kg		118	72 - 139	1	30
Heptachlor			0.133	0.158		mg/Kg		119	74 - 138	1	30
Heptachlor			0.133	0.161		mg/Kg		121	74 - 138	2	30
Heptachlor epoxide			0.133	0.161		mg/Kg		120	72 - 134	5	30
Heptachlor epoxide			0.133	0.156		mg/Kg		117	72 - 134	2	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1018769/3-A
Matrix: Solid
Analysis Batch: 1018827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018769

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor			0.133	0.150		mg/Kg		113	60 - 150	0	30
Methoxychlor			0.133	0.162		mg/Kg		122	60 - 150	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*102*		*17 - 150*
DCB Decachlorobiphenyl	*104*		*17 - 150*
Tetrachloro-m-xylene	*100*		*21 - 150*
Tetrachloro-m-xylene	*97*		*21 - 150*

Lab Sample ID: 460-319357-4 MS
Matrix: Solid
Analysis Batch: 1018895

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0011	U	0.134	0.149		mg/Kg	☼	111	70 - 138
4,4'-DDD	0.0011	U	0.134	0.151		mg/Kg	☼	112	70 - 138
4,4'-DDE	0.00080	U	0.134	0.162		mg/Kg	☼	121	68 - 136
4,4'-DDT	0.0012	U	0.134	0.190		mg/Kg	☼	142	66 - 149
Aldrin	0.0010	U	0.134	0.153		mg/Kg	☼	114	69 - 136
alpha-BHC	0.00069	U	0.134	0.154		mg/Kg	☼	115	72 - 134
beta-BHC	0.00076	U	0.134	0.152		mg/Kg	☼	113	71 - 130
delta-BHC	0.00041	U	0.134	0.140		mg/Kg	☼	105	69 - 140
Dieldrin	0.00088	U	0.134	0.157		mg/Kg	☼	117	69 - 134
Endosulfan I	0.0010	U	0.134	0.155		mg/Kg	☼	116	69 - 133
Endosulfan II	0.0017	U	0.134	0.156		mg/Kg	☼	116	71 - 137
Endosulfan II	0.0017	U	0.134	0.161		mg/Kg	☼	120	71 - 137
Endosulfan sulfate	0.00085	U	0.134	0.161		mg/Kg	☼	120	61 - 140
Endrin	0.00097	U	0.134	0.171		mg/Kg	☼	128	67 - 141
Endrin aldehyde	0.0016	U	0.134	0.135		mg/Kg	☼	101	71 - 136
Endrin ketone	0.0013	U	0.134	0.154		mg/Kg	☼	115	60 - 146
gamma-BHC (Lindane)	0.00062	U	0.134	0.152		mg/Kg	☼	113	72 - 139
Heptachlor	0.00080	U	0.134	0.155		mg/Kg	☼	116	74 - 138
Heptachlor epoxide	0.0010	U	0.134	0.151		mg/Kg	☼	113	72 - 134
Methoxychlor	0.0015	U	0.134	0.220	F1	mg/Kg	☼	164	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*17 - 150*
DCB Decachlorobiphenyl	*97*		*17 - 150*
Tetrachloro-m-xylene	*94*		*21 - 150*
Tetrachloro-m-xylene	*92*		*21 - 150*

Lab Sample ID: 460-319357-4 MSD
Matrix: Solid
Analysis Batch: 1018895

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0011	U	0.134	0.146		mg/Kg	☼	109	70 - 138	2	30
4,4'-DDD	0.0011	U	0.134	0.147		mg/Kg	☼	110	70 - 138	2	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319357-4 MSD
Matrix: Solid
Analysis Batch: 1018895

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDE	0.00080	U	0.134	0.159		mg/Kg	☼	118	68 - 136	2	30
4,4'-DDT	0.0012	U	0.134	0.187		mg/Kg	☼	139	66 - 149	2	30
Aldrin	0.0010	U	0.134	0.147		mg/Kg	☼	110	69 - 136	3	30
alpha-BHC	0.00069	U	0.134	0.149		mg/Kg	☼	111	72 - 134	3	30
beta-BHC	0.00076	U	0.134	0.148		mg/Kg	☼	110	71 - 130	3	30
delta-BHC	0.00041	U	0.134	0.135		mg/Kg	☼	101	69 - 140	4	30
Dieldrin	0.00088	U	0.134	0.154		mg/Kg	☼	115	69 - 134	2	30
Endosulfan I	0.0010	U	0.134	0.152		mg/Kg	☼	113	69 - 133	2	30
Endosulfan II	0.0017	U	0.134	0.153		mg/Kg	☼	114	71 - 137	2	30
Endosulfan II	0.0017	U	0.134	0.157		mg/Kg	☼	117	71 - 137	3	30
Endosulfan sulfate	0.00085	U	0.134	0.159		mg/Kg	☼	119	61 - 140	1	30
Endrin	0.00097	U	0.134	0.166		mg/Kg	☼	124	67 - 141	3	30
Endrin aldehyde	0.0016	U	0.134	0.135		mg/Kg	☼	101	71 - 136	0	30
Endrin ketone	0.0013	U	0.134	0.153		mg/Kg	☼	114	60 - 146	1	30
gamma-BHC (Lindane)	0.00062	U	0.134	0.145		mg/Kg	☼	108	72 - 139	4	30
Heptachlor	0.00080	U	0.134	0.150		mg/Kg	☼	112	74 - 138	4	30
Heptachlor epoxide	0.0010	U	0.134	0.148		mg/Kg	☼	110	72 - 134	2	30
Methoxychlor	0.0015	U	0.134	0.212	F1	mg/Kg	☼	158	60 - 150	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*17 - 150*
DCB Decachlorobiphenyl	*96*		*17 - 150*
Tetrachloro-m-xylene	*88*		*21 - 150*
Tetrachloro-m-xylene	*90*		*21 - 150*

Lab Sample ID: MB 460-1020217/1-A
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		02/07/25 16:40	02/08/25 09:55	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-1020217/1-A
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		02/07/25 16:40	02/08/25 09:55	1
Chlordane (n.o.s.)	0.016	U	0.067	0.016	mg/Kg		02/07/25 16:40	02/08/25 09:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*17 - 150*	*02/07/25 16:40*	*02/08/25 09:55*	*1*
DCB Decachlorobiphenyl	*98*		*17 - 150*	*02/07/25 16:40*	*02/08/25 09:55*	*1*
Tetrachloro-m-xylene	*90*		*21 - 150*	*02/07/25 16:40*	*02/08/25 09:55*	*1*
Tetrachloro-m-xylene	*85*		*21 - 150*	*02/07/25 16:40*	*02/08/25 09:55*	*1*

Lab Sample ID: LCS 460-1020217/2-A
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.149		mg/Kg		112	70 - 138
4,4'-DDD	0.133	0.147		mg/Kg		110	70 - 138
4,4'-DDE	0.133	0.157		mg/Kg		118	68 - 136
4,4'-DDE	0.133	0.151		mg/Kg		113	68 - 136
4,4'-DDT	0.133	0.147		mg/Kg		110	66 - 149
4,4'-DDT	0.133	0.153		mg/Kg		115	66 - 149
Aldrin	0.133	0.153		mg/Kg		115	69 - 136
Aldrin	0.133	0.153		mg/Kg		115	69 - 136
alpha-BHC	0.133	0.160		mg/Kg		120	72 - 134
alpha-BHC	0.133	0.159		mg/Kg		120	72 - 134
beta-BHC	0.133	0.153		mg/Kg		115	71 - 130
beta-BHC	0.133	0.149		mg/Kg		112	71 - 130
delta-BHC	0.133	0.154		mg/Kg		116	69 - 140
delta-BHC	0.133	0.154		mg/Kg		115	69 - 140

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-1020217/2-A
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020217

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dieldrin			0.133	0.155		mg/Kg		116	69 - 134		
Dieldrin			0.133	0.152		mg/Kg		114	69 - 134		
Endosulfan I			0.133	0.158		mg/Kg		118	69 - 133		
Endosulfan I			0.133	0.154		mg/Kg		116	69 - 133		
Endosulfan II			0.133	0.164		mg/Kg		123	71 - 137		
Endosulfan II			0.133	0.157		mg/Kg		118	71 - 137		
Endosulfan sulfate			0.133	0.146		mg/Kg		110	61 - 140		
Endosulfan sulfate			0.133	0.142		mg/Kg		107	61 - 140		
Endrin			0.133	0.142		mg/Kg		107	67 - 141		
Endrin			0.133	0.150		mg/Kg		112	67 - 141		
Endrin aldehyde			0.133	0.155		mg/Kg		116	71 - 136		
Endrin aldehyde			0.133	0.148		mg/Kg		111	71 - 136		
Endrin ketone			0.133	0.154		mg/Kg		115	60 - 146		
Endrin ketone			0.133	0.142		mg/Kg		106	60 - 146		
gamma-BHC (Lindane)			0.133	0.157		mg/Kg		118	72 - 139		
gamma-BHC (Lindane)			0.133	0.157		mg/Kg		117	72 - 139		
Heptachlor			0.133	0.158		mg/Kg		119	74 - 138		
Heptachlor			0.133	0.160		mg/Kg		120	74 - 138		
Heptachlor epoxide			0.133	0.155		mg/Kg		117	72 - 134		
Heptachlor epoxide			0.133	0.155		mg/Kg		116	72 - 134		
Methoxychlor			0.133	0.139		mg/Kg		104	60 - 150		
Methoxychlor			0.133	0.150		mg/Kg		112	60 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*105*		*17 - 150*
DCB Decachlorobiphenyl	*96*		*17 - 150*
Tetrachloro-m-xylene	*94*		*21 - 150*
Tetrachloro-m-xylene	*93*		*21 - 150*

Lab Sample ID: LCSD 460-1020217/3-A
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1020217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.133	0.150		mg/Kg		112	70 - 138	0	30
4,4'-DDD			0.133	0.149		mg/Kg		112	70 - 138	2	30
4,4'-DDE			0.133	0.158		mg/Kg		118	68 - 136	1	30
4,4'-DDE			0.133	0.152		mg/Kg		114	68 - 136	1	30
4,4'-DDT			0.133	0.146		mg/Kg		109	66 - 149	1	30
4,4'-DDT			0.133	0.156		mg/Kg		117	66 - 149	1	30
Aldrin			0.133	0.153		mg/Kg		114	69 - 136	0	30
Aldrin			0.133	0.154		mg/Kg		115	69 - 136	0	30
alpha-BHC			0.133	0.160		mg/Kg		120	72 - 134	0	30
alpha-BHC			0.133	0.160		mg/Kg		120	72 - 134	1	30
beta-BHC			0.133	0.153		mg/Kg		115	71 - 130	0	30
beta-BHC			0.133	0.150		mg/Kg		112	71 - 130	0	30
delta-BHC			0.133	0.153		mg/Kg		114	69 - 140	1	30
delta-BHC			0.133	0.154		mg/Kg		115	69 - 140	0	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-1020217/3-A
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1020217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dieldrin			0.133	0.156		mg/Kg		117	69 - 134	1	30
Dieldrin			0.133	0.155		mg/Kg		116	69 - 134	2	30
Endosulfan I			0.133	0.158		mg/Kg		118	69 - 133	0	30
Endosulfan I			0.133	0.157		mg/Kg		118	69 - 133	2	30
Endosulfan II			0.133	0.166		mg/Kg		124	71 - 137	1	30
Endosulfan II			0.133	0.161		mg/Kg		121	71 - 137	2	30
Endosulfan sulfate			0.133	0.149		mg/Kg		112	61 - 140	2	30
Endosulfan sulfate			0.133	0.147		mg/Kg		110	61 - 140	3	30
Endrin			0.133	0.141		mg/Kg		106	67 - 141	0	30
Endrin			0.133	0.153		mg/Kg		115	67 - 141	2	30
Endrin aldehyde			0.133	0.157		mg/Kg		118	71 - 136	2	30
Endrin aldehyde			0.133	0.152		mg/Kg		114	71 - 136	2	30
Endrin ketone			0.133	0.157		mg/Kg		118	60 - 146	2	30
Endrin ketone			0.133	0.146		mg/Kg		110	60 - 146	3	30
gamma-BHC (Lindane)			0.133	0.157		mg/Kg		118	72 - 139	0	30
gamma-BHC (Lindane)			0.133	0.158		mg/Kg		118	72 - 139	1	30
Heptachlor			0.133	0.157		mg/Kg		118	74 - 138	1	30
Heptachlor			0.133	0.161		mg/Kg		121	74 - 138	1	30
Heptachlor epoxide			0.133	0.156		mg/Kg		117	72 - 134	0	30
Heptachlor epoxide			0.133	0.157		mg/Kg		117	72 - 134	1	30
Methoxychlor			0.133	0.137		mg/Kg		103	60 - 150	2	30
Methoxychlor			0.133	0.153		mg/Kg		115	60 - 150	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*17 - 150*
DCB Decachlorobiphenyl	*100*		*17 - 150*
Tetrachloro-m-xylene	*95*		*21 - 150*
Tetrachloro-m-xylene	*92*		*21 - 150*

Lab Sample ID: 460-319357-2 MS
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.0012	U	0.140	0.153		mg/Kg	☼	109	70 - 138
4,4'-DDD	0.0012	U	0.140	0.158		mg/Kg	☼	113	70 - 138
4,4'-DDE	0.00083	U	0.140	0.158		mg/Kg	☼	112	68 - 136
4,4'-DDE	0.00083	U	0.140	0.158		mg/Kg	☼	113	68 - 136
4,4'-DDT	0.0013	U	0.140	0.142		mg/Kg	☼	101	66 - 149
4,4'-DDT	0.0013	U	0.140	0.164		mg/Kg	☼	117	66 - 149
Aldrin	0.0011	U	0.140	0.153		mg/Kg	☼	109	69 - 136
Aldrin	0.0011	U	0.140	0.159		mg/Kg	☼	114	69 - 136
alpha-BHC	0.00072	U	0.140	0.160		mg/Kg	☼	114	72 - 134
alpha-BHC	0.00072	U	0.140	0.165		mg/Kg	☼	117	72 - 134
beta-BHC	0.00079	U	0.140	0.153		mg/Kg	☼	109	71 - 130
beta-BHC	0.00079	U	0.140	0.154		mg/Kg	☼	110	71 - 130
delta-BHC	0.00043	U	0.140	0.154		mg/Kg	☼	110	69 - 140
delta-BHC	0.00043	U	0.140	0.160		mg/Kg	☼	114	69 - 140

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319357-2 MS
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	0.00092	U	0.140	0.155		mg/Kg	☼	111	69 - 134
Dieldrin	0.00092	U	0.140	0.162		mg/Kg	☼	115	69 - 134
Endosulfan I	0.0011	U	0.140	0.158		mg/Kg	☼	112	69 - 133
Endosulfan I	0.0011	U	0.140	0.164		mg/Kg	☼	117	69 - 133
Endosulfan II	0.0018	U	0.140	0.166		mg/Kg	☼	118	71 - 137
Endosulfan II	0.0018	U	0.140	0.168		mg/Kg	☼	120	71 - 137
Endosulfan sulfate	0.00089	U	0.140	0.147		mg/Kg	☼	105	61 - 140
Endosulfan sulfate	0.00089	U	0.140	0.151		mg/Kg	☼	108	61 - 140
Endrin	0.0010	U	0.140	0.144		mg/Kg	☼	102	67 - 141
Endrin	0.0010	U	0.140	0.162		mg/Kg	☼	116	67 - 141
Endrin aldehyde	0.0017	U	0.140	0.157		mg/Kg	☼	112	71 - 136
Endrin aldehyde	0.0017	U	0.140	0.161		mg/Kg	☼	115	71 - 136
Endrin ketone	0.0014	U	0.140	0.153		mg/Kg	☼	109	60 - 146
Endrin ketone	0.0014	U	0.140	0.152		mg/Kg	☼	108	60 - 146
gamma-BHC (Lindane)	0.00065	U	0.140	0.157		mg/Kg	☼	112	72 - 139
gamma-BHC (Lindane)	0.00065	U	0.140	0.162		mg/Kg	☼	116	72 - 139
Heptachlor	0.00083	U	0.140	0.155		mg/Kg	☼	110	74 - 138
Heptachlor	0.00083	U	0.140	0.166		mg/Kg	☼	119	74 - 138
Heptachlor epoxide	0.0011	U	0.140	0.157		mg/Kg	☼	112	72 - 134
Heptachlor epoxide	0.0011	U	0.140	0.163		mg/Kg	☼	116	72 - 134
Methoxychlor	0.0016	U	0.140	0.131		mg/Kg	☼	93	60 - 150
Methoxychlor	0.0016	U	0.140	0.150		mg/Kg	☼	107	60 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*101*		*17 - 150*
DCB Decachlorobiphenyl	*103*		*17 - 150*
Tetrachloro-m-xylene	*94*		*21 - 150*
Tetrachloro-m-xylene	*92*		*21 - 150*

Lab Sample ID: 460-319357-2 MSD
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.0012	U	0.140	0.145		mg/Kg	☼	103	70 - 138	6	30
4,4'-DDD	0.0012	U	0.140	0.149		mg/Kg	☼	107	70 - 138	6	30
4,4'-DDE	0.00083	U	0.140	0.150		mg/Kg	☼	107	68 - 136	5	30
4,4'-DDE	0.00083	U	0.140	0.151		mg/Kg	☼	108	68 - 136	4	30
4,4'-DDT	0.0013	U	0.140	0.135		mg/Kg	☼	96	66 - 149	6	30
4,4'-DDT	0.0013	U	0.140	0.155		mg/Kg	☼	110	66 - 149	6	30
Aldrin	0.0011	U	0.140	0.146		mg/Kg	☼	104	69 - 136	5	30
Aldrin	0.0011	U	0.140	0.153		mg/Kg	☼	109	69 - 136	4	30
alpha-BHC	0.00072	U	0.140	0.155		mg/Kg	☼	111	72 - 134	3	30
alpha-BHC	0.00072	U	0.140	0.159		mg/Kg	☼	113	72 - 134	3	30
beta-BHC	0.00079	U	0.140	0.146		mg/Kg	☼	104	71 - 130	5	30
beta-BHC	0.00079	U	0.140	0.148		mg/Kg	☼	106	71 - 130	4	30
delta-BHC	0.00043	U	0.140	0.148		mg/Kg	☼	106	69 - 140	4	30
delta-BHC	0.00043	U	0.140	0.153		mg/Kg	☼	109	69 - 140	4	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-319357-2 MSD
Matrix: Solid
Analysis Batch: 1020261

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dieldrin	0.00092	U	0.140	0.148		mg/Kg	☼	106	69 - 134	5	30
Dieldrin	0.00092	U	0.140	0.154		mg/Kg	☼	110	69 - 134	5	30
Endosulfan I	0.0011	U	0.140	0.151		mg/Kg	☼	108	69 - 133	4	30
Endosulfan I	0.0011	U	0.140	0.156		mg/Kg	☼	111	69 - 133	5	30
Endosulfan II	0.0018	U	0.140	0.158		mg/Kg	☼	113	71 - 137	5	30
Endosulfan II	0.0018	U	0.140	0.161		mg/Kg	☼	115	71 - 137	5	30
Endosulfan sulfate	0.00089	U	0.140	0.141		mg/Kg	☼	101	61 - 140	4	30
Endosulfan sulfate	0.00089	U	0.140	0.147		mg/Kg	☼	105	61 - 140	3	30
Endrin	0.0010	U	0.140	0.137		mg/Kg	☼	97	67 - 141	5	30
Endrin	0.0010	U	0.140	0.154		mg/Kg	☼	110	67 - 141	5	30
Endrin aldehyde	0.0017	U	0.140	0.150		mg/Kg	☼	107	71 - 136	5	30
Endrin aldehyde	0.0017	U	0.140	0.155		mg/Kg	☼	111	71 - 136	4	30
Endrin ketone	0.0014	U	0.140	0.149		mg/Kg	☼	106	60 - 146	3	30
Endrin ketone	0.0014	U	0.140	0.146		mg/Kg	☼	104	60 - 146	4	30
gamma-BHC (Lindane)	0.00065	U	0.140	0.151		mg/Kg	☼	107	72 - 139	4	30
gamma-BHC (Lindane)	0.00065	U	0.140	0.156		mg/Kg	☼	111	72 - 139	4	30
Heptachlor	0.00083	U	0.140	0.149		mg/Kg	☼	106	74 - 138	4	30
Heptachlor	0.00083	U	0.140	0.160		mg/Kg	☼	114	74 - 138	4	30
Heptachlor epoxide	0.0011	U	0.140	0.148		mg/Kg	☼	105	72 - 134	6	30
Heptachlor epoxide	0.0011	U	0.140	0.156		mg/Kg	☼	111	72 - 134	4	30
Methoxychlor	0.0016	U	0.140	0.127		mg/Kg	☼	90	60 - 150	3	30
Methoxychlor	0.0016	U	0.140	0.153		mg/Kg	☼	109	60 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*17 - 150*
DCB Decachlorobiphenyl	*96*		*17 - 150*
Tetrachloro-m-xylene	*91*		*21 - 150*
Tetrachloro-m-xylene	*89*		*21 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-1018768/1-A
Matrix: Solid
Analysis Batch: 1018810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1018768/1-A
Matrix: Solid
Analysis Batch: 1018810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		01/30/25 10:13	01/30/25 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*20 - 150*	*01/30/25 10:13*	*01/30/25 17:20*	*1*
DCB Decachlorobiphenyl	*48*		*20 - 150*	*01/30/25 10:13*	*01/30/25 17:20*	*1*
Tetrachloro-m-xylene	*51*		*20 - 150*	*01/30/25 10:13*	*01/30/25 17:20*	*1*
Tetrachloro-m-xylene	*49*		*20 - 150*	*01/30/25 10:13*	*01/30/25 17:20*	*1*

Lab Sample ID: LCS 460-1018768/2-A
Matrix: Solid
Analysis Batch: 1018810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018768

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.404		mg/Kg		121	54 - 136		
Aroclor 1016			0.333	0.452		mg/Kg		136	54 - 136		
Aroclor 1260			0.333	0.416		mg/Kg		125	53 - 145		
Aroclor 1260			0.333	0.508	*+	mg/Kg		152	53 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*120*		*20 - 150*
DCB Decachlorobiphenyl	*148*		*20 - 150*
Tetrachloro-m-xylene	*121*		*20 - 150*
Tetrachloro-m-xylene	*112*		*20 - 150*

Lab Sample ID: LCSD 460-1018768/3-A
Matrix: Solid
Analysis Batch: 1018810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018768

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.356		mg/Kg		107	54 - 136	13	30
Aroclor 1016			0.333	0.324	*1	mg/Kg		97	54 - 136	33	30
Aroclor 1260			0.333	0.368		mg/Kg		110	53 - 145	12	30
Aroclor 1260			0.333	0.370	*1	mg/Kg		111	53 - 145	31	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*20 - 150*
DCB Decachlorobiphenyl	*105*		*20 - 150*
Tetrachloro-m-xylene	*105*		*20 - 150*
Tetrachloro-m-xylene	*103*		*20 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319357-4 MS
Matrix: Solid
Analysis Batch: 1018810

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.018	U *1	0.336	0.311		mg/Kg	☼	93	54 - 136
Aroclor 1016	0.018	U *1	0.336	0.290		mg/Kg	☼	86	54 - 136
Aroclor 1260	0.018	U *+ *1	0.336	0.327		mg/Kg	☼	97	53 - 145
Aroclor 1260	0.018	U *+ *1	0.336	0.328		mg/Kg	☼	98	53 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*20 - 150*
DCB Decachlorobiphenyl	*94*		*20 - 150*
Tetrachloro-m-xylene	*88*		*20 - 150*
Tetrachloro-m-xylene	*87*		*20 - 150*

Lab Sample ID: 460-319357-4 MSD
Matrix: Solid
Analysis Batch: 1018810

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.018	U *1	0.336	0.261		mg/Kg	☼	78	54 - 136	17	30
Aroclor 1016	0.018	U *1	0.336	0.240		mg/Kg	☼	71	54 - 136	19	30
Aroclor 1260	0.018	U *+ *1	0.336	0.267		mg/Kg	☼	79	53 - 145	20	30
Aroclor 1260	0.018	U *+ *1	0.336	0.268		mg/Kg	☼	80	53 - 145	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*20 - 150*
DCB Decachlorobiphenyl	*79*		*20 - 150*
Tetrachloro-m-xylene	*77*		*20 - 150*
Tetrachloro-m-xylene	*75*		*20 - 150*

Lab Sample ID: MB 460-1020213/1-A
Matrix: Solid
Analysis Batch: 1020259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor-1262	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-1020213/1-A
Matrix: Solid
Analysis Batch: 1020259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1
Polychlorinated biphenyls, Total	0.018	U	0.067	0.018	mg/Kg		02/07/25 16:19	02/08/25 09:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*20 - 150*	*02/07/25 16:19*	*02/08/25 09:59*	*1*
DCB Decachlorobiphenyl	*103*		*20 - 150*	*02/07/25 16:19*	*02/08/25 09:59*	*1*
Tetrachloro-m-xylene	*97*		*20 - 150*	*02/07/25 16:19*	*02/08/25 09:59*	*1*
Tetrachloro-m-xylene	*98*		*20 - 150*	*02/07/25 16:19*	*02/08/25 09:59*	*1*

Lab Sample ID: LCS 460-1020213/2-A
Matrix: Solid
Analysis Batch: 1020259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020213

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.340		mg/Kg		102	54 - 136		
Aroclor 1016			0.333	0.290		mg/Kg		87	54 - 136		
Aroclor 1260			0.333	0.365		mg/Kg		110	53 - 145		
Aroclor 1260			0.333	0.372		mg/Kg		112	53 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*103*		*20 - 150*
DCB Decachlorobiphenyl	*105*		*20 - 150*
Tetrachloro-m-xylene	*93*		*20 - 150*
Tetrachloro-m-xylene	*93*		*20 - 150*

Lab Sample ID: LCSD 460-1020213/3-A
Matrix: Solid
Analysis Batch: 1020259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1020213

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.360		mg/Kg		108	54 - 136	6	30
Aroclor 1016			0.333	0.321		mg/Kg		96	54 - 136	10	30
Aroclor 1260			0.333	0.378		mg/Kg		113	53 - 145	3	30
Aroclor 1260			0.333	0.404		mg/Kg		121	53 - 145	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*20 - 150*
DCB Decachlorobiphenyl	*114*		*20 - 150*
Tetrachloro-m-xylene	*100*		*20 - 150*
Tetrachloro-m-xylene	*102*		*20 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-319357-2 MS
Matrix: Solid
Analysis Batch: 1020259

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.019	U	0.351	0.330		mg/Kg	☼	94	54 - 136
Aroclor 1016	0.019	U	0.351	0.277		mg/Kg	☼	79	54 - 136
Aroclor 1260	0.019	U	0.351	0.375		mg/Kg	☼	107	53 - 145
Aroclor 1260	0.019	U	0.351	0.372		mg/Kg	☼	106	53 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*54*		*20 - 150*
DCB Decachlorobiphenyl	*53*		*20 - 150*
Tetrachloro-m-xylene	*50*		*20 - 150*
Tetrachloro-m-xylene	*50*		*20 - 150*

Lab Sample ID: 460-319357-2 MSD
Matrix: Solid
Analysis Batch: 1020259

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.019	U	0.350	0.306		mg/Kg	☼	87	54 - 136	8	30
Aroclor 1016	0.019	U	0.350	0.288		mg/Kg	☼	82	54 - 136	4	30
Aroclor 1260	0.019	U	0.350	0.351		mg/Kg	☼	100	53 - 145	7	30
Aroclor 1260	0.019	U	0.350	0.354		mg/Kg	☼	101	53 - 145	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*38*		*20 - 150*
DCB Decachlorobiphenyl	*37*		*20 - 150*
Tetrachloro-m-xylene	*35*		*20 - 150*
Tetrachloro-m-xylene	*34*		*20 - 150*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Lab Sample ID: MB 460-1018774/1-A
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/30/25 10:45	01/30/25 23:35	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		01/30/25 10:45	01/30/25 23:35	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		01/30/25 10:45	01/30/25 23:35	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		01/30/25 10:45	01/30/25 23:35	1
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		01/30/25 10:45	01/30/25 23:35	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		01/30/25 10:45	01/30/25 23:35	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		01/30/25 10:45	01/30/25 23:35	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		01/30/25 10:45	01/30/25 23:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*40 - 140*	*01/30/25 10:45*	*01/30/25 23:35*	*1*
2-Fluorobiphenyl	*87*		*40 - 140*	*01/30/25 10:45*	*01/30/25 23:35*	*1*
2-Bromonaphthalene	*84*		*40 - 140*	*01/30/25 10:45*	*01/30/25 23:35*	*1*
1-Chlorooctadecane	*78*		*40 - 140*	*01/30/25 10:45*	*01/30/25 23:35*	*1*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons

Lab Sample ID: LCS 460-1018774/2-A
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics			20.0	8.93		mg/Kg		45	40 - 140		
C9-C12 Aliphatics			26.7	10.8		mg/Kg		40	40 - 140		
C16-C21 Aliphatics			20.0	14.7		mg/Kg		74	40 - 140		
C21-C40 Aliphatics			66.7	47.5		mg/Kg		71	40 - 140		
C16-C21 Aromatics			33.3	31.3		mg/Kg		94	40 - 140		
C10-C12 Aromatics			20.0	13.9		mg/Kg		69	40 - 140		
C12-C16 Aromatics			26.7	20.0		mg/Kg		75	40 - 140		
C21-C36 Aromatic			53.3	43.4		mg/Kg		81	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*91*		*40 - 140*
2-Fluorobiphenyl	*95*		*40 - 140*
2-Bromonaphthalene	*90*		*40 - 140*
1-Chlorooctadecane	*77*		*40 - 140*

Lab Sample ID: LCSD 460-1018774/3-A
Matrix: Solid
Analysis Batch: 1018831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018774

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C16-C21 Aromatics			33.3	30.8		mg/Kg		93	40 - 140	1	25
C10-C12 Aromatics			20.0	14.1		mg/Kg		70	40 - 140	1	25
C12-C16 Aromatics			26.7	20.1		mg/Kg		75	40 - 140	1	25
C21-C36 Aromatic			53.3	42.8		mg/Kg		80	40 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*90*		*40 - 140*
2-Fluorobiphenyl	*93*		*40 - 140*
2-Bromonaphthalene	*88*		*40 - 140*

Lab Sample ID: LCSD 460-1018774/3-A
Matrix: Solid
Analysis Batch: 1018963

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1018774

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics			20.0	11.4		mg/Kg		57	40 - 140	24	25
C9-C12 Aliphatics			26.7	13.7		mg/Kg		51	40 - 140	24	25
C16-C21 Aliphatics			20.0	18.0		mg/Kg		90	40 - 140	20	25
C21-C40 Aliphatics			66.7	60.5		mg/Kg		91	40 - 140	24	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane	*92*		*40 - 140*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 460-319357-4 MS
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	2.0	U	20.1	9.96		mg/Kg	☼	50	40 - 140
C9-C12 Aliphatics	3.0	U	26.8	11.2		mg/Kg	☼	42	40 - 140
C16-C21 Aliphatics	2.0	U	20.1	14.8		mg/Kg	☼	74	40 - 140
C21-C40 Aliphatics	7.0	U	67.0	50.0		mg/Kg	☼	75	40 - 140
C16-C21 Aromatics	5.0	U	33.5	31.5		mg/Kg	☼	94	40 - 140
C10-C12 Aromatics	2.0	U	20.1	13.6		mg/Kg	☼	67	40 - 140
C12-C16 Aromatics	3.0	U	26.8	19.6		mg/Kg	☼	73	40 - 140
C21-C36 Aromatic	8.0	U	53.6	53.0		mg/Kg	☼	99	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*92*		*40 - 140*
2-Fluorobiphenyl	*94*		*40 - 140*
2-Bromonaphthalene	*90*		*40 - 140*
1-Chlorooctadecane	*79*		*40 - 140*

Lab Sample ID: 460-319357-4 MSD
Matrix: Solid
Analysis Batch: 1018830

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.0	U	20.1	9.90		mg/Kg	☼	49	40 - 140	1	25
C9-C12 Aliphatics	3.0	U	26.9	11.2		mg/Kg	☼	42	40 - 140	0	25
C16-C21 Aliphatics	2.0	U	20.1	14.5		mg/Kg	☼	72	40 - 140	2	25
C21-C40 Aliphatics	7.0	U	67.1	43.5		mg/Kg	☼	65	40 - 140	14	25
C16-C21 Aromatics	5.0	U	33.6	29.8		mg/Kg	☼	89	40 - 140	5	25
C10-C12 Aromatics	2.0	U	20.1	13.1		mg/Kg	☼	65	40 - 140	4	25
C12-C16 Aromatics	3.0	U	26.9	18.9		mg/Kg	☼	70	40 - 140	4	25
C21-C36 Aromatic	8.0	U	53.7	42.7		mg/Kg	☼	79	40 - 140	22	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*85*		*40 - 140*
2-Fluorobiphenyl	*95*		*40 - 140*
2-Bromonaphthalene	*91*		*40 - 140*
1-Chlorooctadecane	*78*		*40 - 140*

Lab Sample ID: MB 460-1020128/1-A
Matrix: Solid
Analysis Batch: 1020265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	5.0	U	5.0	5.0	mg/Kg		02/07/25 10:02	02/08/25 11:58	1
C10-C12 Aromatics	2.0	U	2.0	2.0	mg/Kg		02/07/25 10:02	02/08/25 11:58	1
C12-C16 Aromatics	3.0	U	3.0	3.0	mg/Kg		02/07/25 10:02	02/08/25 11:58	1
C21-C36 Aromatic	8.0	U	8.0	8.0	mg/Kg		02/07/25 10:02	02/08/25 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*40 - 140*	*02/07/25 10:02*	*02/08/25 11:58*	*1*

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: MB 460-1020128/1-A
Matrix: Solid
Analysis Batch: 1020265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020128

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		40 - 140	02/07/25 10:02	02/08/25 11:58	1
2-Bromonaphthalene	105		40 - 140	02/07/25 10:02	02/08/25 11:58	1

Lab Sample ID: MB 460-1020128/1-A
Matrix: Solid
Analysis Batch: 1020264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C12-C16 Aliphatics	2.0	U	2.0	2.0	mg/Kg		02/07/25 10:02	02/08/25 12:29	1
C9-C12 Aliphatics	3.0	U	3.0	3.0	mg/Kg		02/07/25 10:02	02/08/25 12:29	1
C16-C21 Aliphatics	2.0	U	2.0	2.0	mg/Kg		02/07/25 10:02	02/08/25 12:29	1
C21-C40 Aliphatics	7.0	U	7.0	7.0	mg/Kg		02/07/25 10:02	02/08/25 12:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	63		40 - 140	02/07/25 10:02	02/08/25 12:29	1

Lab Sample ID: LCS 460-1020128/2-A
Matrix: Solid
Analysis Batch: 1020265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C16-C21 Aromatics	33.3	31.7		mg/Kg		95	40 - 140
C10-C12 Aromatics	20.0	14.1		mg/Kg		71	40 - 140
C12-C16 Aromatics	26.7	20.9		mg/Kg		79	40 - 140
C21-C36 Aromatic	53.3	40.0		mg/Kg		75	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	86		40 - 140
2-Fluorobiphenyl	93		40 - 140
2-Bromonaphthalene	96		40 - 140

Lab Sample ID: LCS 460-1020128/2-A
Matrix: Solid
Analysis Batch: 1020264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C12-C16 Aliphatics	20.0	10.2		mg/Kg		51	40 - 140
C9-C12 Aliphatics	26.7	12.8		mg/Kg		48	40 - 140
C16-C21 Aliphatics	20.0	16.4		mg/Kg		82	40 - 140
C21-C40 Aliphatics	66.7	52.8		mg/Kg		79	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	65		40 - 140

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: LCSD 460-1020128/3-A
Matrix: Solid
Analysis Batch: 1020265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1020128

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C16-C21 Aromatics			33.3	33.8		mg/Kg		101	40 - 140	7	25
C10-C12 Aromatics			20.0	16.3		mg/Kg		81	40 - 140	14	25
C12-C16 Aromatics			26.7	22.6		mg/Kg		85	40 - 140	8	25
C21-C36 Aromatic			53.3	44.5		mg/Kg		83	40 - 140	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*102*		*40 - 140*
2-Fluorobiphenyl	*101*		*40 - 140*
2-Bromonaphthalene	*105*		*40 - 140*

Lab Sample ID: LCSD 460-1020128/3-A
Matrix: Solid
Analysis Batch: 1020264

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1020128

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics			20.0	11.0		mg/Kg		55	40 - 140	7	25
C9-C12 Aliphatics			26.7	14.0		mg/Kg		52	40 - 140	9	25
C16-C21 Aliphatics			20.0	15.9		mg/Kg		79	40 - 140	3	25
C21-C40 Aliphatics			66.7	55.5		mg/Kg		83	40 - 140	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane	*73*		*40 - 140*

Lab Sample ID: 460-319993-A-1-A MS
Matrix: Solid
Analysis Batch: 1020265

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1020128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C16-C21 Aromatics	5.3	U F2	35.6	29.9		mg/Kg	☼	84	40 - 140		
C10-C12 Aromatics	2.1	U F2	21.3	14.0		mg/Kg	☼	66	40 - 140		
C12-C16 Aromatics	3.2	U F2	28.4	19.9		mg/Kg	☼	70	40 - 140		
C21-C36 Aromatic	8.5	U F2	56.9	39.0		mg/Kg	☼	69	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*76*		*40 - 140*
2-Fluorobiphenyl	*96*		*40 - 140*
2-Bromonaphthalene	*97*		*40 - 140*

Lab Sample ID: 460-319993-A-1-A MS
Matrix: Solid
Analysis Batch: 1020264

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1020128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C12-C16 Aliphatics	2.1	U	21.3	9.14		mg/Kg	☼	43	40 - 140		
C9-C12 Aliphatics	3.2	U F1	28.4	11.3		mg/Kg	☼	40	40 - 140		
C16-C21 Aliphatics	2.1	U	21.3	14.5		mg/Kg	☼	68	40 - 140		
C21-C40 Aliphatics	7.5	U	71.1	49.3		mg/Kg	☼	69	40 - 140		

Method: NJDEP EPH - New Jersey Extractable Petroleum Hydrocarbons (Continued)

Lab Sample ID: 460-319993-A-1-A MS
Matrix: Solid
Analysis Batch: 1020264

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1020128

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctadecane	59		40 - 140

Lab Sample ID: 460-319993-A-1-B MSD
Matrix: Solid
Analysis Batch: 1020265

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1020128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C16-C21 Aromatics	5.3	U F2	35.6	20.3	F2	mg/Kg	☼	57	40 - 140	39	25
C10-C12 Aromatics	2.1	U F2	21.3	10.1	F2	mg/Kg	☼	47	40 - 140	32	25
C12-C16 Aromatics	3.2	U F2	28.5	14.2	F2	mg/Kg	☼	50	40 - 140	33	25
C21-C36 Aromatic	8.5	U F2	56.9	26.2	F2	mg/Kg	☼	46	40 - 140	39	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	57		40 - 140
2-Fluorobiphenyl	79		40 - 140
2-Bromonaphthalene	80		40 - 140

Lab Sample ID: 460-319993-A-1-B MSD
Matrix: Solid
Analysis Batch: 1020264

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1020128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C12-C16 Aliphatics	2.1	U	21.3	8.55		mg/Kg	☼	40	40 - 140	7	25
C9-C12 Aliphatics	3.2	U F1	28.5	10.8	F1	mg/Kg	☼	38	40 - 140	5	25
C16-C21 Aliphatics	2.1	U	21.3	13.4		mg/Kg	☼	63	40 - 140	8	25
C21-C40 Aliphatics	7.5	U	71.2	44.3		mg/Kg	☼	62	40 - 140	11	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctadecane	57		40 - 140

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-1018730/1-A
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Antimony	0.15	U	1.0	0.15	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Barium	0.15	U	2.0	0.15	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Calcium	40.7	U	100	40.7	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Chromium	0.91	U	2.0	0.91	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Copper	0.37	U	2.0	0.37	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Iron	20.2	U	60.0	20.2	mg/Kg		01/30/25 07:39	01/31/25 01:29	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-1018730/1-A
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.20	U	0.60	0.20	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Magnesium	10.2	U	100	10.2	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Manganese	0.40	U	4.0	0.40	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Nickel	0.47	U	2.0	0.47	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Potassium	16.2	U	100	16.2	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Selenium	0.13	U	1.3	0.13	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Silver	0.089	U	0.40	0.089	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Sodium	45.7	U	100	45.7	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Thallium	0.041	U	0.40	0.041	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		01/30/25 07:39	01/31/25 01:29	1
Zinc	3.1	U	8.0	3.1	mg/Kg		01/30/25 07:39	01/31/25 01:29	1

Lab Sample ID: LCSSRM 460-1018730/2-A ^3
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018730

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5940	6088		mg/Kg		102.5	46.1 - 153.9
Antimony	121	89.18		mg/Kg		73.7	0.1 - 200.8
Arsenic	242	249.0		mg/Kg		102.9	81.8 - 118.6
Barium	295	282.3		mg/Kg		95.7	81.7 - 118.3
Beryllium	160	148.7		mg/Kg		93.0	82.5 - 117.5
Cadmium	84.3	82.24		mg/Kg		97.6	82.2 - 117.8
Calcium	5270	5108		mg/Kg		96.9	82.5 - 117.5
Chromium	213	212.5		mg/Kg		99.8	81.2 - 119.2
Cobalt	137	139.8		mg/Kg		102.0	83.2 - 117.5
Copper	195	197.5		mg/Kg		101.3	83.1 - 116.9
Iron	6650	7393		mg/Kg		111.2	58.6 - 141.5
Lead	194	195.1		mg/Kg		100.6	82.0 - 118.6
Magnesium	1860	1887		mg/Kg		101.5	75.3 - 124.2
Manganese	264	268.3		mg/Kg		101.6	80.7 - 118.9
Nickel	298	303.9		mg/Kg		102.0	82.2 - 117.8
Potassium	2010	2046		mg/Kg		101.8	70.6 - 129.4
Selenium	272	288.9		mg/Kg		106.2	80.1 - 119.5
Silver	76.7	77.47		mg/Kg		101.0	79.5 - 120.5

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-1018730/2-A ^3
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018730

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	406	424.5		mg/Kg		104.6	74.9 - 124.9
Thallium	108	114.0		mg/Kg		105.5	80.0 - 119.4
Vanadium	169	171.6		mg/Kg		101.5	78.1 - 122.5
Zinc	236	242.3		mg/Kg		102.7	80.1 - 120.3

Lab Sample ID: 460-319374-A-9-D MS
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	13200		604	15020	4	mg/Kg	☼	307	75 - 125
Antimony	0.37	J F1	6.04	2.20	F1	mg/Kg	☼	30	75 - 125
Arsenic	16.4		12.1	28.03		mg/Kg	☼	96	75 - 125
Barium	67.6		12.1	76.32	4	mg/Kg	☼	72	75 - 125
Beryllium	0.49		6.04	5.37		mg/Kg	☼	81	75 - 125
Cadmium	0.52	J	6.04	5.66		mg/Kg	☼	85	75 - 125
Calcium	3710		604	3635	4	mg/Kg	☼	-12	75 - 125
Chromium	45.9	F1	12.1	61.22	F1	mg/Kg	☼	127	75 - 125
Cobalt	12.9		6.04	17.85		mg/Kg	☼	82	75 - 125
Copper	69.9		12.1	76.72	4	mg/Kg	☼	56	75 - 125
Iron	24100		604	23500	4	mg/Kg	☼	-102	75 - 125
Lead	44.4		6.04	49.43	4	mg/Kg	☼	84	75 - 125
Magnesium	2570		604	2834	4	mg/Kg	☼	44	75 - 125
Manganese	520		60.4	548.9	4	mg/Kg	☼	48	75 - 125
Nickel	15.9		12.1	26.78		mg/Kg	☼	90	75 - 125
Potassium	694		604	1255		mg/Kg	☼	93	75 - 125
Selenium	0.40	J	12.1	10.96		mg/Kg	☼	87	75 - 125
Silver	0.19	J	6.04	5.49		mg/Kg	☼	88	75 - 125
Sodium	84.0	J	604	613.5		mg/Kg	☼	88	75 - 125
Thallium	0.091	J	4.84	4.30		mg/Kg	☼	87	75 - 125
Vanadium	55.8		12.1	67.02	4	mg/Kg	☼	93	75 - 125
Zinc	73.8		60.4	126.5		mg/Kg	☼	87	75 - 125

Lab Sample ID: 460-319374-A-9-C DU
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018730

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	13200		12830		mg/Kg	☼	3	20
Antimony	0.37	J F1	0.368	J	mg/Kg	☼	0.6	20
Arsenic	16.4		16.16		mg/Kg	☼	2	20
Barium	67.6		65.99		mg/Kg	☼	2	20
Beryllium	0.49		0.486		mg/Kg	☼	1	20
Cadmium	0.52	J	0.514	J	mg/Kg	☼	2	20
Calcium	3710		3479		mg/Kg	☼	6	20
Chromium	45.9	F1	45.84		mg/Kg	☼	0.2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319374-A-9-C DU
Matrix: Solid
Analysis Batch: 1018820

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018730

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cobalt	12.9			12.64		mg/Kg	☼			2	20
Copper	69.9			69.19		mg/Kg	☼			1	20
Iron	24100			22780		mg/Kg	☼			6	20
Lead	44.4			44.56		mg/Kg	☼			0.5	20
Magnesium	2570			2278		mg/Kg	☼			12	20
Manganese	520			497.5		mg/Kg	☼			4	20
Nickel	15.9			15.43		mg/Kg	☼			3	20
Potassium	694			702.5		mg/Kg	☼			1	20
Selenium	0.40	J		0.446	J	mg/Kg	☼			11	20
Silver	0.19	J		0.190	J	mg/Kg	☼			0.5	20
Sodium	84.0	J		81.81	J	mg/Kg	☼			3	20
Thallium	0.091	J		0.0915	J	mg/Kg	☼			0.8	20
Vanadium	55.8			55.03		mg/Kg	☼			1	20
Zinc	73.8			73.21		mg/Kg	☼			0.9	20

Lab Sample ID: MB 460-1020253/1-A
Matrix: Solid
Analysis Batch: 1020512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5	U	20.0	5.5	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Antimony	0.15	U	1.0	0.15	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Arsenic	0.10	U	1.0	0.10	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Barium	0.15	U	2.0	0.15	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Beryllium	0.057	U	0.40	0.057	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Cadmium	0.11	U	1.0	0.11	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Calcium	40.7	U	100	40.7	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Chromium	0.91	U	2.0	0.91	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Cobalt	0.15	U	2.0	0.15	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Copper	0.37	U	2.0	0.37	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Iron	20.2	U	60.0	20.2	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Lead	0.20	U	0.60	0.20	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Magnesium	10.2	U	100	10.2	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Manganese	0.40	U	4.0	0.40	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Nickel	0.47	U	2.0	0.47	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Potassium	16.2	U	100	16.2	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Selenium	0.13	U	1.3	0.13	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Silver	0.089	U	0.40	0.089	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Sodium	45.7	U	100	45.7	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Thallium	0.041	U	0.40	0.041	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Vanadium	0.21	U	2.0	0.21	mg/Kg		02/08/25 05:41	02/10/25 10:50	1
Zinc	3.1	U	8.0	3.1	mg/Kg		02/08/25 05:41	02/10/25 10:50	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-1020253/2-A ^3
Matrix: Solid
Analysis Batch: 1020512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020253

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5940	4478		mg/Kg		75.4	46.1 - 153.9
Antimony	121	82.13		mg/Kg		67.9	0.1 - 200.8
Arsenic	242	221.1		mg/Kg		91.4	81.8 - 118.6
Barium	295	283.3		mg/Kg		96.0	81.7 - 118.3
Beryllium	160	142.8		mg/Kg		89.2	82.5 - 117.5
Cadmium	84.3	78.77		mg/Kg		93.4	82.2 - 117.8
Calcium	5270	4822		mg/Kg		91.5	82.5 - 117.5
Chromium	213	199.9		mg/Kg		93.9	81.2 - 119.2
Cobalt	137	128.0		mg/Kg		93.4	83.2 - 117.5
Copper	195	187.9		mg/Kg		96.3	83.1 - 116.9
Iron	6650	5230		mg/Kg		78.6	58.6 - 141.5
Lead	194	179.0		mg/Kg		92.3	82.0 - 118.6
Magnesium	1860	1575		mg/Kg		84.7	75.3 - 124.2
Manganese	264	225.4		mg/Kg		85.4	80.7 - 118.9
Nickel	298	277.6		mg/Kg		93.2	82.2 - 117.8
Potassium	2010	1712		mg/Kg		85.2	70.6 - 129.4
Selenium	272	256.6		mg/Kg		94.3	80.1 - 119.5
Silver	76.7	69.22		mg/Kg		90.2	79.5 - 120.5
Sodium	406	377.2		mg/Kg		92.9	74.9 - 124.9
Thallium	108	104.7		mg/Kg		96.9	80.0 - 119.4
Vanadium	169	154.7		mg/Kg		91.5	78.1 - 122.5
Zinc	236	217.4		mg/Kg		92.1	80.1 - 120.3

Lab Sample ID: 460-319499-A-6-C MS ^5
Matrix: Solid
Analysis Batch: 1020512

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1020253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	3290		577	4718	4	mg/Kg	☼	248	75 - 125
Antimony	0.84	U F1	5.77	3.10	J F1	mg/Kg	☼	54	75 - 125
Arsenic	2.4	J	11.5	12.34		mg/Kg	☼	86	75 - 125
Barium	14.9		11.5	27.08		mg/Kg	☼	106	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-319499-A-6-C MS ^5
Matrix: Solid
Analysis Batch: 1020512

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1020253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.33	U	5.77	5.70		mg/Kg	☼	99	75 - 125
Cadmium	0.65	U	5.77	4.75	J	mg/Kg	☼	82	75 - 125
Calcium	235	U F1	577	748.4	F1	mg/Kg	☼	130	75 - 125
Chromium	7.3	J	11.5	18.60		mg/Kg	☼	98	75 - 125
Cobalt	2.5	J	5.77	8.42	J	mg/Kg	☼	102	75 - 125
Copper	3.3	J	11.5	14.22		mg/Kg	☼	95	75 - 125
Iron	6650		577	7610	4	mg/Kg	☼	166	75 - 125
Lead	2.3	J	5.77	7.73		mg/Kg	☼	95	75 - 125
Magnesium	916		577	1601		mg/Kg	☼	119	75 - 125
Manganese	45.3	F1	57.7	118.9	F1	mg/Kg	☼	128	75 - 125
Nickel	4.6	J	11.5	16.18		mg/Kg	☼	101	75 - 125
Potassium	382	J	577	958.8		mg/Kg	☼	100	75 - 125
Selenium	0.74	U	11.5	10.15		mg/Kg	☼	88	75 - 125
Silver	0.51	U	5.77	5.32		mg/Kg	☼	92	75 - 125
Sodium	264	U	577	569.0	J	mg/Kg	☼	99	75 - 125
Thallium	0.24	U	4.61	4.03		mg/Kg	☼	87	75 - 125
Vanadium	7.0	J	11.5	18.60		mg/Kg	☼	101	75 - 125
Zinc	17.6	U	57.7	63.91		mg/Kg	☼	111	75 - 125

Lab Sample ID: 460-319499-A-6-B DU ^5
Matrix: Solid
Analysis Batch: 1020512

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1020253

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	3290		3339		mg/Kg	☼	2	20
Antimony	0.84	U F1	0.84	U	mg/Kg	☼	NC	20
Arsenic	2.4	J	2.50	J	mg/Kg	☼	4	20
Barium	14.9		16.50		mg/Kg	☼	10	20
Beryllium	0.33	U	0.33	U	mg/Kg	☼	NC	20
Cadmium	0.65	U	0.65	U	mg/Kg	☼	NC	20
Calcium	235	U F1	235	U	mg/Kg	☼	NC	20
Chromium	7.3	J	7.19	J	mg/Kg	☼	1	20
Cobalt	2.5	J	2.79	J	mg/Kg	☼	9	20
Copper	3.3	J	3.40	J	mg/Kg	☼	3	20
Iron	6650		6542		mg/Kg	☼	2	20
Lead	2.3	J	2.28	J	mg/Kg	☼	0.2	20
Magnesium	916		941.6		mg/Kg	☼	3	20
Manganese	45.3	F1	74.37	F3	mg/Kg	☼	49	20
Nickel	4.6	J	5.20	J	mg/Kg	☼	13	20
Potassium	382	J	393.3	J	mg/Kg	☼	3	20
Selenium	0.74	U	0.74	U	mg/Kg	☼	NC	20
Silver	0.51	U	0.51	U	mg/Kg	☼	NC	20
Sodium	264	U	264	U	mg/Kg	☼	NC	20
Thallium	0.24	U	0.24	U	mg/Kg	☼	NC	20
Vanadium	7.0	J	6.93	J	mg/Kg	☼	0.5	20
Zinc	17.6	U	17.6	U	mg/Kg	☼	NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-1020708/1-A
Matrix: Solid
Analysis Batch: 1020739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/11/25 15:00	02/11/25 16:13	1

Lab Sample ID: LCS 460-1020708/2-A
Matrix: Solid
Analysis Batch: 1020739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.60		ug/L		92	80 - 120

Lab Sample ID: LB 460-1020383/1-D
Matrix: Solid
Analysis Batch: 1020739

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 1020708

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/11/25 15:00	02/11/25 16:56	1

Lab Sample ID: 460-319357-I-11-H MS
Matrix: Solid
Analysis Batch: 1020739

Client Sample ID: 460-319357-I-11-H MS
Prep Type: SPLP East
Prep Batch: 1020708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.091	U	5.00	4.24		ug/L		85	75 - 125

Lab Sample ID: 460-319357-I-11-G DU
Matrix: Solid
Analysis Batch: 1020739

Client Sample ID: 460-319357-I-11-G DU
Prep Type: SPLP East
Prep Batch: 1020708

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.091	U	0.091	U	ug/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-1018462/1-A
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		01/29/25 01:05	01/29/25 05:06	1

Lab Sample ID: LCSSRM 460-1018462/2-A ^40
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018462

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	22.8	22.90		mg/Kg		100.5	70.6 - 129.4

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-319127-C-12-O MS
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 1018462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.078		0.0763	0.158		mg/Kg	☼	105	80 - 120

Lab Sample ID: 460-319127-C-12-P MSD
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 1018462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.078		0.0763	0.157		mg/Kg	☼	104	80 - 120	0	20

Lab Sample ID: 460-319127-C-12-N DU
Matrix: Solid
Analysis Batch: 1018522

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 1018462

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.078		0.0793		mg/Kg	☼	2	20

Lab Sample ID: MB 460-1020392/10-A
Matrix: Solid
Analysis Batch: 1020443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		02/10/25 00:50	02/10/25 04:20	1

Lab Sample ID: LCSSRM 460-1020392/11-A ^40
Matrix: Solid
Analysis Batch: 1020443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020392

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	22.8	24.40		mg/Kg		107.0	70.6 - 129.4

Lab Sample ID: 460-319357-2 MS
Matrix: Solid
Analysis Batch: 1020443

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0079	U	0.0825	0.0950		mg/Kg	☼	115	80 - 120

Lab Sample ID: 460-319357-2 DU
Matrix: Solid
Analysis Batch: 1020443

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020392

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0079	U	0.0079	U	mg/Kg	☼	NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 460-1018949/1-A
Matrix: Solid
Analysis Batch: 1019019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1018949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		01/31/25 07:50	01/31/25 12:08	1

Lab Sample ID: LCSSRM 460-1018949/2-A ^20
Matrix: Solid
Analysis Batch: 1019019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018949

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	154	108.0		mg/Kg		70.3	14.9 - 114.5

Lab Sample ID: 460-319357-4 MS
Matrix: Solid
Analysis Batch: 1019019

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.11	U	4.84	4.72		mg/Kg	☼	98	29 - 100

Lab Sample ID: 460-319357-4 MSD
Matrix: Solid
Analysis Batch: 1019019

Client Sample ID: 2A-03-CS-4
Prep Type: Total/NA
Prep Batch: 1018949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.11	U	4.32	4.19		mg/Kg	☼	97	29 - 100	12	40

Lab Sample ID: MRL 460-1018998/12-A
Matrix: Solid
Analysis Batch: 1019019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1018998

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0100	0.0102		mg/L		102	50 - 150

Lab Sample ID: MB 460-1020373/1-A
Matrix: Solid
Analysis Batch: 1020386

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1020373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0055	U	0.010	0.0055	mg/Kg		02/08/25 19:30	02/09/25 15:08	1

Lab Sample ID: LCSSRM 460-1020373/2-A ^20
Matrix: Solid
Analysis Batch: 1020386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020373

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	172	83.04		mg/Kg		48.3	14.9 - 114.5

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 460-319357-2 MS
Matrix: Solid
Analysis Batch: 1020386

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.13	U F1	4.88	4.92	F1	mg/Kg	☼	101	29 - 100		

Lab Sample ID: 460-319357-2 MSD
Matrix: Solid
Analysis Batch: 1020386

Client Sample ID: 2A-04-CS-4
Prep Type: Total/NA
Prep Batch: 1020373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.13	U F1	5.07	4.89		mg/Kg	☼	97	29 - 100	1	40

Lab Sample ID: MRL 460-1020374/12-A
Matrix: Solid
Analysis Batch: 1020386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1020374

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.0100	0.0100		mg/L		100	50 - 150		

Method: Moisture - Percent Moisture

Lab Sample ID: 460-319319-A-3 DU
Matrix: Solid
Analysis Batch: 1018270

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	24.8			25.0		%				0.8	20
Percent Solids	75.2			75.0		%				0.3	20

Lab Sample ID: 460-319357-10 DU
Matrix: Solid
Analysis Batch: 1020445

Client Sample ID: 2A-01-TS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	40.6			35.2		%				14	20
Percent Solids	59.4			64.8		%				9	20

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Prep Batch: 1018274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	5035	
460-319357-3	2A-04-CS-8	Total/NA	Solid	5035	
460-319357-4	2A-03-CS-4	Total/NA	Solid	5035	
460-319357-5	2A-03-CS-8	Total/NA	Solid	5035	
460-319357-6	2A-08-CS-4	Total/NA	Solid	5035	
460-319357-7	2A-08-CS-8	Total/NA	Solid	5035	
460-319357-8	2A-09-CS-4	Total/NA	Solid	5035	
460-319357-9	2A-09-CS-8	Total/NA	Solid	5035	
460-319357-10	2A-01-TS	Total/NA	Solid	5035	
460-319357-11	2A-01-CS	Total/NA	Solid	5035	
460-319357-12	2A-02-TS	Total/NA	Solid	5035	
460-319357-13	2A-02-CS	Total/NA	Solid	5035	
LB3 460-1018274/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1018493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-1	Trip Blank	Total/NA	Water	8260D	
MB 460-1018493/9	Method Blank	Total/NA	Water	8260D	
LCS 460-1018493/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-1018493/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 1018701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	8260D	1018274
460-319357-5	2A-03-CS-8	Total/NA	Solid	8260D	1018274
460-319357-8	2A-09-CS-4	Total/NA	Solid	8260D	1018274
460-319357-9	2A-09-CS-8	Total/NA	Solid	8260D	1018274
460-319357-12	2A-02-TS	Total/NA	Solid	8260D	1018274
460-319357-13	2A-02-CS	Total/NA	Solid	8260D	1018274
LB3 460-1018274/1-A	Method Blank	Total/NA	Solid	8260D	1018274
MB 460-1018701/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1018701/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1018701/32	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1020232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-3	2A-04-CS-8	Total/NA	Solid	8260D	1018274
460-319357-6	2A-08-CS-4	Total/NA	Solid	8260D	1018274
460-319357-7	2A-08-CS-8	Total/NA	Solid	8260D	1018274
460-319357-10	2A-01-TS	Total/NA	Solid	8260D	1018274
460-319357-11	2A-01-CS	Total/NA	Solid	8260D	1018274
MB 460-1020232/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-1020232/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1020232/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 1020337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	8260D	1018274
MB 460-1020337/6	Method Blank	Total/NA	Solid	8260D	
LCS 460-1020337/2	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-1020337/3	Lab Control Sample Dup	Total/NA	Solid	8260D	

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Prep Batch: 1018556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	3546	
460-319357-5	2A-03-CS-8	Total/NA	Solid	3546	
460-319357-8	2A-09-CS-4	Total/NA	Solid	3546	
460-319357-9	2A-09-CS-8	Total/NA	Solid	3546	
460-319357-12	2A-02-TS	Total/NA	Solid	3546	
460-319357-13	2A-02-CS	Total/NA	Solid	3546	
MB 460-1018556/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018556/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018556/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319357-5 MS	2A-03-CS-8	Total/NA	Solid	3546	
460-319357-5 MSD	2A-03-CS-8	Total/NA	Solid	3546	

Analysis Batch: 1018599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	8270E	1018556
460-319357-5	2A-03-CS-8	Total/NA	Solid	8270E	1018556
460-319357-8	2A-09-CS-4	Total/NA	Solid	8270E	1018556
460-319357-9	2A-09-CS-8	Total/NA	Solid	8270E	1018556
460-319357-12	2A-02-TS	Total/NA	Solid	8270E	1018556
460-319357-13	2A-02-CS	Total/NA	Solid	8270E	1018556
MB 460-1018556/1-A	Method Blank	Total/NA	Solid	8270E	1018556
LCS 460-1018556/2-A	Lab Control Sample	Total/NA	Solid	8270E	1018556
LCSD 460-1018556/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1018556
460-319357-5 MS	2A-03-CS-8	Total/NA	Solid	8270E	1018556
460-319357-5 MSD	2A-03-CS-8	Total/NA	Solid	8270E	1018556

Prep Batch: 1020235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	3546	
460-319357-3	2A-04-CS-8	Total/NA	Solid	3546	
460-319357-6	2A-08-CS-4	Total/NA	Solid	3546	
460-319357-7	2A-08-CS-8	Total/NA	Solid	3546	
460-319357-10	2A-01-TS	Total/NA	Solid	3546	
460-319357-11	2A-01-CS	Total/NA	Solid	3546	
MB 460-1020235/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1020235/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1020235/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 1020312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	8270E	1020235
460-319357-3	2A-04-CS-8	Total/NA	Solid	8270E	1020235
460-319357-6	2A-08-CS-4	Total/NA	Solid	8270E	1020235
460-319357-7	2A-08-CS-8	Total/NA	Solid	8270E	1020235
460-319357-10	2A-01-TS	Total/NA	Solid	8270E	1020235
460-319357-11	2A-01-CS	Total/NA	Solid	8270E	1020235
MB 460-1020235/1-A	Method Blank	Total/NA	Solid	8270E	1020235
LCS 460-1020235/2-A	Lab Control Sample	Total/NA	Solid	8270E	1020235
LCSD 460-1020235/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	1020235

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Prep Batch: 1018768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	3546	
460-319357-5	2A-03-CS-8	Total/NA	Solid	3546	
460-319357-8	2A-09-CS-4	Total/NA	Solid	3546	
460-319357-9	2A-09-CS-8	Total/NA	Solid	3546	
460-319357-12	2A-02-TS	Total/NA	Solid	3546	
460-319357-13	2A-02-CS	Total/NA	Solid	3546	
MB 460-1018768/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018768/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018768/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	3546	
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	3546	

Prep Batch: 1018769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	3546	
460-319357-5	2A-03-CS-8	Total/NA	Solid	3546	
460-319357-8	2A-09-CS-4	Total/NA	Solid	3546	
460-319357-9	2A-09-CS-8	Total/NA	Solid	3546	
460-319357-12	2A-02-TS	Total/NA	Solid	3546	
460-319357-13	2A-02-CS	Total/NA	Solid	3546	
MB 460-1018769/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018769/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018769/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	3546	
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	3546	

Prep Batch: 1018774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	3546	
460-319357-5	2A-03-CS-8	Total/NA	Solid	3546	
460-319357-8	2A-09-CS-4	Total/NA	Solid	3546	
460-319357-9	2A-09-CS-8	Total/NA	Solid	3546	
460-319357-12	2A-02-TS	Total/NA	Solid	3546	
460-319357-13	2A-02-CS	Total/NA	Solid	3546	
MB 460-1018774/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1018774/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1018774/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	3546	
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	3546	

Analysis Batch: 1018789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319357-5	2A-03-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319357-8	2A-09-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319357-9	2A-09-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319357-12	2A-02-TS	Total/NA	Solid	NJ DEP EPH	
460-319357-13	2A-02-CS	Total/NA	Solid	NJ DEP EPH	

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

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Analysis Batch: 1018810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	8082A	1018768
460-319357-5	2A-03-CS-8	Total/NA	Solid	8082A	1018768
460-319357-8	2A-09-CS-4	Total/NA	Solid	8082A	1018768
460-319357-9	2A-09-CS-8	Total/NA	Solid	8082A	1018768
460-319357-12	2A-02-TS	Total/NA	Solid	8082A	1018768
460-319357-13	2A-02-CS	Total/NA	Solid	8082A	1018768
MB 460-1018768/1-A	Method Blank	Total/NA	Solid	8082A	1018768
LCS 460-1018768/2-A	Lab Control Sample	Total/NA	Solid	8082A	1018768
LCSD 460-1018768/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1018768
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	8082A	1018768
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	8082A	1018768

Analysis Batch: 1018827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-12	2A-02-TS	Total/NA	Solid	8081B	1018769
460-319357-13	2A-02-CS	Total/NA	Solid	8081B	1018769
MB 460-1018769/1-A	Method Blank	Total/NA	Solid	8081B	1018769
LCS 460-1018769/2-A	Lab Control Sample	Total/NA	Solid	8081B	1018769
LCSD 460-1018769/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1018769

Analysis Batch: 1018830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	NJDEP EPH	1018774
460-319357-5	2A-03-CS-8	Total/NA	Solid	NJDEP EPH	1018774
460-319357-8	2A-09-CS-4	Total/NA	Solid	NJDEP EPH	1018774
460-319357-9	2A-09-CS-8	Total/NA	Solid	NJDEP EPH	1018774
460-319357-12	2A-02-TS	Total/NA	Solid	NJDEP EPH	1018774
460-319357-13	2A-02-CS	Total/NA	Solid	NJDEP EPH	1018774
MB 460-1018774/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1018774
LCS 460-1018774/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1018774
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	NJDEP EPH	1018774
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	NJDEP EPH	1018774

Analysis Batch: 1018831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	NJDEP EPH	1018774
460-319357-5	2A-03-CS-8	Total/NA	Solid	NJDEP EPH	1018774
460-319357-8	2A-09-CS-4	Total/NA	Solid	NJDEP EPH	1018774
460-319357-9	2A-09-CS-8	Total/NA	Solid	NJDEP EPH	1018774
460-319357-12	2A-02-TS	Total/NA	Solid	NJDEP EPH	1018774
460-319357-13	2A-02-CS	Total/NA	Solid	NJDEP EPH	1018774
MB 460-1018774/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1018774
LCS 460-1018774/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1018774
LCSD 460-1018774/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1018774
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	NJDEP EPH	1018774
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	NJDEP EPH	1018774

Analysis Batch: 1018895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	8081B	1018769
460-319357-5	2A-03-CS-8	Total/NA	Solid	8081B	1018769

GC Semi VOA (Continued)

Analysis Batch: 1018895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-8	2A-09-CS-4	Total/NA	Solid	8081B	1018769
460-319357-9	2A-09-CS-8	Total/NA	Solid	8081B	1018769
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	8081B	1018769
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	8081B	1018769

Analysis Batch: 1018963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-1018774/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1018774

Prep Batch: 1020128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	3546	
460-319357-3	2A-04-CS-8	Total/NA	Solid	3546	
460-319357-6	2A-08-CS-4	Total/NA	Solid	3546	
460-319357-7	2A-08-CS-8	Total/NA	Solid	3546	
460-319357-10	2A-01-TS	Total/NA	Solid	3546	
460-319357-11	2A-01-CS	Total/NA	Solid	3546	
MB 460-1020128/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1020128/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1020128/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319993-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
460-319993-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 1020213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	3546	
460-319357-3	2A-04-CS-8	Total/NA	Solid	3546	
460-319357-6	2A-08-CS-4	Total/NA	Solid	3546	
460-319357-7	2A-08-CS-8	Total/NA	Solid	3546	
460-319357-10	2A-01-TS	Total/NA	Solid	3546	
460-319357-11	2A-01-CS	Total/NA	Solid	3546	
MB 460-1020213/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1020213/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1020213/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319357-2 MS	2A-04-CS-4	Total/NA	Solid	3546	
460-319357-2 MSD	2A-04-CS-4	Total/NA	Solid	3546	

Prep Batch: 1020217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	3546	
460-319357-3	2A-04-CS-8	Total/NA	Solid	3546	
460-319357-6	2A-08-CS-4	Total/NA	Solid	3546	
460-319357-7	2A-08-CS-8	Total/NA	Solid	3546	
460-319357-10	2A-01-TS	Total/NA	Solid	3546	
460-319357-11	2A-01-CS	Total/NA	Solid	3546	
MB 460-1020217/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-1020217/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-1020217/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-319357-2 MS	2A-04-CS-4	Total/NA	Solid	3546	
460-319357-2 MSD	2A-04-CS-4	Total/NA	Solid	3546	

GC Semi VOA

Analysis Batch: 1020259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	8082A	1020213
460-319357-3	2A-04-CS-8	Total/NA	Solid	8082A	1020213
460-319357-6	2A-08-CS-4	Total/NA	Solid	8082A	1020213
460-319357-7	2A-08-CS-8	Total/NA	Solid	8082A	1020213
460-319357-10	2A-01-TS	Total/NA	Solid	8082A	1020213
460-319357-11	2A-01-CS	Total/NA	Solid	8082A	1020213
MB 460-1020213/1-A	Method Blank	Total/NA	Solid	8082A	1020213
LCS 460-1020213/2-A	Lab Control Sample	Total/NA	Solid	8082A	1020213
LCSD 460-1020213/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	1020213
460-319357-2 MS	2A-04-CS-4	Total/NA	Solid	8082A	1020213
460-319357-2 MSD	2A-04-CS-4	Total/NA	Solid	8082A	1020213

Analysis Batch: 1020261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	8081B	1020217
460-319357-3	2A-04-CS-8	Total/NA	Solid	8081B	1020217
460-319357-6	2A-08-CS-4	Total/NA	Solid	8081B	1020217
460-319357-7	2A-08-CS-8	Total/NA	Solid	8081B	1020217
460-319357-10	2A-01-TS	Total/NA	Solid	8081B	1020217
460-319357-11	2A-01-CS	Total/NA	Solid	8081B	1020217
MB 460-1020217/1-A	Method Blank	Total/NA	Solid	8081B	1020217
LCS 460-1020217/2-A	Lab Control Sample	Total/NA	Solid	8081B	1020217
LCSD 460-1020217/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	1020217
460-319357-2 MS	2A-04-CS-4	Total/NA	Solid	8081B	1020217
460-319357-2 MSD	2A-04-CS-4	Total/NA	Solid	8081B	1020217

Analysis Batch: 1020264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	NJDEP EPH	1020128
460-319357-3	2A-04-CS-8	Total/NA	Solid	NJDEP EPH	1020128
460-319357-6	2A-08-CS-4	Total/NA	Solid	NJDEP EPH	1020128
460-319357-7	2A-08-CS-8	Total/NA	Solid	NJDEP EPH	1020128
460-319357-10	2A-01-TS	Total/NA	Solid	NJDEP EPH	1020128
460-319357-11	2A-01-CS	Total/NA	Solid	NJDEP EPH	1020128
MB 460-1020128/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1020128
LCS 460-1020128/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1020128
LCSD 460-1020128/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1020128
460-319993-A-1-A MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1020128
460-319993-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1020128

Analysis Batch: 1020265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	NJDEP EPH	1020128
460-319357-3	2A-04-CS-8	Total/NA	Solid	NJDEP EPH	1020128
460-319357-6	2A-08-CS-4	Total/NA	Solid	NJDEP EPH	1020128
460-319357-7	2A-08-CS-8	Total/NA	Solid	NJDEP EPH	1020128
460-319357-10	2A-01-TS	Total/NA	Solid	NJDEP EPH	1020128
460-319357-11	2A-01-CS	Total/NA	Solid	NJDEP EPH	1020128
MB 460-1020128/1-A	Method Blank	Total/NA	Solid	NJDEP EPH	1020128
LCS 460-1020128/2-A	Lab Control Sample	Total/NA	Solid	NJDEP EPH	1020128
LCSD 460-1020128/3-A	Lab Control Sample Dup	Total/NA	Solid	NJDEP EPH	1020128

GC Semi VOA (Continued)

Analysis Batch: 1020265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319993-A-1-A MS	Matrix Spike	Total/NA	Solid	NJDEP EPH	1020128
460-319993-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	NJDEP EPH	1020128

Analysis Batch: 1020360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319357-3	2A-04-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319357-6	2A-08-CS-4	Total/NA	Solid	NJ DEP EPH	
460-319357-7	2A-08-CS-8	Total/NA	Solid	NJ DEP EPH	
460-319357-10	2A-01-TS	Total/NA	Solid	NJ DEP EPH	
460-319357-11	2A-01-CS	Total/NA	Solid	NJ DEP EPH	

Metals

Prep Batch: 1018462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	7471B	
460-319357-5	2A-03-CS-8	Total/NA	Solid	7471B	
460-319357-8	2A-09-CS-4	Total/NA	Solid	7471B	
460-319357-9	2A-09-CS-8	Total/NA	Solid	7471B	
460-319357-12	2A-02-TS	Total/NA	Solid	7471B	
460-319357-13	2A-02-CS	Total/NA	Solid	7471B	
MB 460-1018462/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1018462/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-319127-C-12-O MS	Matrix Spike	Total/NA	Solid	7471B	
460-319127-C-12-P MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-319127-C-12-N DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 1018522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	7471B	1018462
460-319357-5	2A-03-CS-8	Total/NA	Solid	7471B	1018462
460-319357-8	2A-09-CS-4	Total/NA	Solid	7471B	1018462
460-319357-9	2A-09-CS-8	Total/NA	Solid	7471B	1018462
460-319357-12	2A-02-TS	Total/NA	Solid	7471B	1018462
460-319357-13	2A-02-CS	Total/NA	Solid	7471B	1018462
MB 460-1018462/1-A	Method Blank	Total/NA	Solid	7471B	1018462
LCSSRM 460-1018462/2-A ^	Lab Control Sample	Total/NA	Solid	7471B	1018462
460-319127-C-12-O MS	Matrix Spike	Total/NA	Solid	7471B	1018462
460-319127-C-12-P MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	1018462
460-319127-C-12-N DU	Duplicate	Total/NA	Solid	7471B	1018462

Prep Batch: 1018730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	3050B	
460-319357-5	2A-03-CS-8	Total/NA	Solid	3050B	
460-319357-8	2A-09-CS-4	Total/NA	Solid	3050B	
460-319357-9	2A-09-CS-8	Total/NA	Solid	3050B	
460-319357-12	2A-02-TS	Total/NA	Solid	3050B	
460-319357-13	2A-02-CS	Total/NA	Solid	3050B	
MB 460-1018730/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 1018730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 460-1018730/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319374-A-9-D MS	Matrix Spike	Total/NA	Solid	3050B	
460-319374-A-9-C DU	Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 1018820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-1018730/1-A	Method Blank	Total/NA	Solid	6020B	1018730
LCSSRM 460-1018730/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1018730
460-319374-A-9-D MS	Matrix Spike	Total/NA	Solid	6020B	1018730
460-319374-A-9-C DU	Duplicate	Total/NA	Solid	6020B	1018730

Analysis Batch: 1019027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	6020B	1018730
460-319357-5	2A-03-CS-8	Total/NA	Solid	6020B	1018730
460-319357-8	2A-09-CS-4	Total/NA	Solid	6020B	1018730
460-319357-9	2A-09-CS-8	Total/NA	Solid	6020B	1018730
460-319357-12	2A-02-TS	Total/NA	Solid	6020B	1018730
460-319357-13	2A-02-CS	Total/NA	Solid	6020B	1018730

Prep Batch: 1020253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	3050B	
460-319357-3	2A-04-CS-8	Total/NA	Solid	3050B	
460-319357-6	2A-08-CS-4	Total/NA	Solid	3050B	
460-319357-7	2A-08-CS-8	Total/NA	Solid	3050B	
460-319357-10	2A-01-TS	Total/NA	Solid	3050B	
460-319357-11	2A-01-CS	Total/NA	Solid	3050B	
MB 460-1020253/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-1020253/2-A ^	Lab Control Sample	Total/NA	Solid	3050B	
460-319499-A-6-C MS ^5	Matrix Spike	Total/NA	Solid	3050B	
460-319499-A-6-B DU ^5	Duplicate	Total/NA	Solid	3050B	

Leach Batch: 1020383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-10	2A-01-TS	SPLP East	Solid	1312	
LB 460-1020383/1-D	Method Blank	SPLP East	Solid	1312	
460-319357-I-11-H MS	460-319357-I-11-H MS	SPLP East	Solid	1312	
460-319357-I-11-G DU	460-319357-I-11-G DU	SPLP East	Solid	1312	

Prep Batch: 1020392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	7471B	
460-319357-3	2A-04-CS-8	Total/NA	Solid	7471B	
460-319357-6	2A-08-CS-4	Total/NA	Solid	7471B	
460-319357-7	2A-08-CS-8	Total/NA	Solid	7471B	
460-319357-10	2A-01-TS	Total/NA	Solid	7471B	
460-319357-11	2A-01-CS	Total/NA	Solid	7471B	
MB 460-1020392/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-1020392/11-A	Lab Control Sample	Total/NA	Solid	7471B	
460-319357-2 MS	2A-04-CS-4	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 1020392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2 DU	2A-04-CS-4	Total/NA	Solid	7471B	

Analysis Batch: 1020443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	7471B	1020392
460-319357-3	2A-04-CS-8	Total/NA	Solid	7471B	1020392
460-319357-6	2A-08-CS-4	Total/NA	Solid	7471B	1020392
460-319357-7	2A-08-CS-8	Total/NA	Solid	7471B	1020392
460-319357-10	2A-01-TS	Total/NA	Solid	7471B	1020392
460-319357-11	2A-01-CS	Total/NA	Solid	7471B	1020392
MB 460-1020392/10-A	Method Blank	Total/NA	Solid	7471B	1020392
LCSSRM 460-1020392/11-A	Lab Control Sample	Total/NA	Solid	7471B	1020392
460-319357-2 MS	2A-04-CS-4	Total/NA	Solid	7471B	1020392
460-319357-2 DU	2A-04-CS-4	Total/NA	Solid	7471B	1020392

Analysis Batch: 1020512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	6020B	1020253
460-319357-3	2A-04-CS-8	Total/NA	Solid	6020B	1020253
460-319357-6	2A-08-CS-4	Total/NA	Solid	6020B	1020253
460-319357-7	2A-08-CS-8	Total/NA	Solid	6020B	1020253
460-319357-10	2A-01-TS	Total/NA	Solid	6020B	1020253
460-319357-11	2A-01-CS	Total/NA	Solid	6020B	1020253
MB 460-1020253/1-A	Method Blank	Total/NA	Solid	6020B	1020253
LCSSRM 460-1020253/2-A ^	Lab Control Sample	Total/NA	Solid	6020B	1020253
460-319499-A-6-C MS ^5	Matrix Spike	Total/NA	Solid	6020B	1020253
460-319499-A-6-B DU ^5	Duplicate	Total/NA	Solid	6020B	1020253

Prep Batch: 1020708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-10	2A-01-TS	SPLP East	Solid	7470A	1020383
LB 460-1020383/1-D	Method Blank	SPLP East	Solid	7470A	1020383
MB 460-1020708/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 460-1020708/2-A	Lab Control Sample	Total/NA	Solid	7470A	
460-319357-I-11-H MS	460-319357-I-11-H MS	SPLP East	Solid	7470A	1020383
460-319357-I-11-G DU	460-319357-I-11-G DU	SPLP East	Solid	7470A	1020383

Analysis Batch: 1020739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-10	2A-01-TS	SPLP East	Solid	7470A	1020708
LB 460-1020383/1-D	Method Blank	SPLP East	Solid	7470A	1020708
MB 460-1020708/1-A	Method Blank	Total/NA	Solid	7470A	1020708
LCS 460-1020708/2-A	Lab Control Sample	Total/NA	Solid	7470A	1020708
460-319357-I-11-H MS	460-319357-I-11-H MS	SPLP East	Solid	7470A	1020708
460-319357-I-11-G DU	460-319357-I-11-G DU	SPLP East	Solid	7470A	1020708

General Chemistry

Analysis Batch: 1018270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 1018270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-5	2A-03-CS-8	Total/NA	Solid	Moisture	
460-319357-8	2A-09-CS-4	Total/NA	Solid	Moisture	
460-319357-9	2A-09-CS-8	Total/NA	Solid	Moisture	
460-319357-12	2A-02-TS	Total/NA	Solid	Moisture	
460-319357-13	2A-02-CS	Total/NA	Solid	Moisture	
460-319319-A-3 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 1018949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	9012B	
460-319357-5	2A-03-CS-8	Total/NA	Solid	9012B	
460-319357-8	2A-09-CS-4	Total/NA	Solid	9012B	
460-319357-9	2A-09-CS-8	Total/NA	Solid	9012B	
460-319357-12	2A-02-TS	Total/NA	Solid	9012B	
460-319357-13	2A-02-CS	Total/NA	Solid	9012B	
MB 460-1018949/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1018949/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	9012B	
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	9012B	

Prep Batch: 1018998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 460-1018998/12-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 1019019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-4	2A-03-CS-4	Total/NA	Solid	9012B	1018949
460-319357-5	2A-03-CS-8	Total/NA	Solid	9012B	1018949
460-319357-8	2A-09-CS-4	Total/NA	Solid	9012B	1018949
460-319357-9	2A-09-CS-8	Total/NA	Solid	9012B	1018949
460-319357-12	2A-02-TS	Total/NA	Solid	9012B	1018949
460-319357-13	2A-02-CS	Total/NA	Solid	9012B	1018949
MB 460-1018949/1-A	Method Blank	Total/NA	Solid	9012B	1018949
LCSSRM 460-1018949/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1018949
MRL 460-1018998/12-A	Lab Control Sample	Total/NA	Solid	9012B	1018998
460-319357-4 MS	2A-03-CS-4	Total/NA	Solid	9012B	1018949
460-319357-4 MSD	2A-03-CS-4	Total/NA	Solid	9012B	1018949

Prep Batch: 1020373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	9012B	
460-319357-3	2A-04-CS-8	Total/NA	Solid	9012B	
460-319357-6	2A-08-CS-4	Total/NA	Solid	9012B	
460-319357-7	2A-08-CS-8	Total/NA	Solid	9012B	
460-319357-10	2A-01-TS	Total/NA	Solid	9012B	
460-319357-11	2A-01-CS	Total/NA	Solid	9012B	
MB 460-1020373/1-A	Method Blank	Total/NA	Solid	9012B	
LCSSRM 460-1020373/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	
460-319357-2 MS	2A-04-CS-4	Total/NA	Solid	9012B	
460-319357-2 MSD	2A-04-CS-4	Total/NA	Solid	9012B	

General Chemistry

Prep Batch: 1020374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 460-1020374/12-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 1020386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	9012B	1020373
460-319357-3	2A-04-CS-8	Total/NA	Solid	9012B	1020373
460-319357-6	2A-08-CS-4	Total/NA	Solid	9012B	1020373
460-319357-7	2A-08-CS-8	Total/NA	Solid	9012B	1020373
460-319357-10	2A-01-TS	Total/NA	Solid	9012B	1020373
460-319357-11	2A-01-CS	Total/NA	Solid	9012B	1020373
MB 460-1020373/1-A	Method Blank	Total/NA	Solid	9012B	1020373
LCSSRM 460-1020373/2-A ^	Lab Control Sample	Total/NA	Solid	9012B	1020373
MRL 460-1020374/12-A	Lab Control Sample	Total/NA	Solid	9012B	1020374
460-319357-2 MS	2A-04-CS-4	Total/NA	Solid	9012B	1020373
460-319357-2 MSD	2A-04-CS-4	Total/NA	Solid	9012B	1020373

Analysis Batch: 1020445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-319357-2	2A-04-CS-4	Total/NA	Solid	Moisture	
460-319357-3	2A-04-CS-8	Total/NA	Solid	Moisture	
460-319357-6	2A-08-CS-4	Total/NA	Solid	Moisture	
460-319357-7	2A-08-CS-8	Total/NA	Solid	Moisture	
460-319357-10	2A-01-TS	Total/NA	Solid	Moisture	
460-319357-11	2A-01-CS	Total/NA	Solid	Moisture	
460-320174-D-3 MS	Matrix Spike	Total/NA	Solid	Moisture	
460-320174-D-3 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
460-319357-10 DU	2A-01-TS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: Trip Blank
Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	1018493	SZD	EET EDI	01/29/25 13:56

Client Sample ID: 2A-04-CS-4
Date Collected: 01/27/25 08:50
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1020360	OXG	EET EDI	02/09/25 09:56
Total/NA	Analysis	Moisture		1	1020445	MVA	EET EDI	02/10/25 07:53

Client Sample ID: 2A-04-CS-4
Date Collected: 01/27/25 08:50
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-2
Matrix: Solid
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:20
Total/NA	Analysis	8260D		1	1020337	AAT	EET EDI	02/10/25 08:16
Total/NA	Prep	3546			1020235	GXY	EET EDI	02/07/25 19:33
Total/NA	Analysis	8270E		1	1020312	YAH	EET EDI	02/08/25 16:07
Total/NA	Prep	3546			1020217	ARA	EET EDI	02/07/25 16:40
Total/NA	Analysis	8081B		1	1020261	FAM	EET EDI	02/08/25 10:58
Total/NA	Prep	3546			1020213	ARA	EET EDI	02/07/25 16:19
Total/NA	Analysis	8082A		1	1020259	AAA	EET EDI	02/08/25 10:50
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020265	OXG	EET EDI	02/08/25 13:15
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020264	OXG	EET EDI	02/08/25 13:46
Total/NA	Prep	3050B			1020253	FBT	EET EDI	02/08/25 05:41
Total/NA	Analysis	6020B		1	1020512	JKF	EET EDI	02/10/25 16:26
Total/NA	Prep	7471B			1020392	TJS	EET EDI	02/10/25 00:50
Total/NA	Analysis	7471B		1	1020443	TJS	EET EDI	02/10/25 04:23
Total/NA	Prep	9012B			1020373	VBG	EET EDI	02/09/25 13:59
Total/NA	Analysis	9012B		1	1020386	VBG	EET EDI	02/09/25 15:28

Client Sample ID: 2A-04-CS-8
Date Collected: 01/27/25 08:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1020360	OXG	EET EDI	02/09/25 09:56
Total/NA	Analysis	Moisture		1	1020445	MVA	EET EDI	02/10/25 07:53

Client Sample ID: 2A-04-CS-8

Lab Sample ID: 460-319357-3

Date Collected: 01/27/25 08:40

Matrix: Solid

Date Received: 01/27/25 13:50

Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:21
Total/NA	Analysis	8260D		1	1020232	AAT	EET EDI	02/08/25 04:21
Total/NA	Prep	3546			1020235	GXY	EET EDI	02/07/25 19:33
Total/NA	Analysis	8270E		1	1020312	YAH	EET EDI	02/08/25 16:26
Total/NA	Prep	3546			1020217	ARA	EET EDI	02/07/25 16:40
Total/NA	Analysis	8081B		1	1020261	FAM	EET EDI	02/08/25 11:14
Total/NA	Prep	3546			1020213	ARA	EET EDI	02/07/25 16:19
Total/NA	Analysis	8082A		1	1020259	AAA	EET EDI	02/08/25 11:06
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020265	OXG	EET EDI	02/08/25 13:31
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020264	OXG	EET EDI	02/08/25 14:02
Total/NA	Prep	3050B			1020253	FBT	EET EDI	02/08/25 05:41
Total/NA	Analysis	6020B		1	1020512	JKF	EET EDI	02/10/25 16:33
Total/NA	Prep	7471B			1020392	TJS	EET EDI	02/10/25 00:50
Total/NA	Analysis	7471B		1	1020443	TJS	EET EDI	02/10/25 04:30
Total/NA	Prep	9012B			1020373	VBG	EET EDI	02/09/25 13:59
Total/NA	Analysis	9012B		1	1020386	VBG	EET EDI	02/09/25 15:31

Client Sample ID: 2A-03-CS-4

Lab Sample ID: 460-319357-4

Date Collected: 01/27/25 09:20

Matrix: Solid

Date Received: 01/27/25 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018270	CJC	EET EDI	01/27/25 16:39

Client Sample ID: 2A-03-CS-4

Lab Sample ID: 460-319357-4

Date Collected: 01/27/25 09:20

Matrix: Solid

Date Received: 01/27/25 13:50

Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:22
Total/NA	Analysis	8260D		1	1018701	AAT	EET EDI	01/30/25 14:59
Total/NA	Prep	3546			1018556	ZEH	EET EDI	01/29/25 09:43
Total/NA	Analysis	8270E		1	1018599	DXD	EET EDI	01/29/25 16:08
Total/NA	Prep	3546			1018769	OTS	EET EDI	01/30/25 10:19
Total/NA	Analysis	8081B		1	1018895	FAM	EET EDI	01/31/25 04:17
Total/NA	Prep	3546			1018768	OTS	EET EDI	01/30/25 10:13
Total/NA	Analysis	8082A		1	1018810	AAA	EET EDI	01/30/25 18:10
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/30/25 23:50
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/30/25 23:50

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-03-CS-4
Date Collected: 01/27/25 09:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-4
Matrix: Solid
Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			1018730	FBT	EET EDI	01/30/25 07:39
Total/NA	Analysis	6020B		1	1019027	MDC	EET EDI	01/31/25 14:37
Total/NA	Prep	7471B			1018462	TJS	EET EDI	01/29/25 01:05
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 05:47
Total/NA	Prep	9012B			1018949	SBW	EET EDI	01/31/25 07:50
Total/NA	Analysis	9012B		1	1019019	AXP	EET EDI	01/31/25 12:24

Client Sample ID: 2A-03-CS-8
Date Collected: 01/27/25 09:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018270	CJC	EET EDI	01/27/25 16:39

Client Sample ID: 2A-03-CS-8
Date Collected: 01/27/25 09:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-5
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:23
Total/NA	Analysis	8260D		1	1018701	AAT	EET EDI	01/30/25 15:22
Total/NA	Prep	3546			1018556	ZEH	EET EDI	01/29/25 09:43
Total/NA	Analysis	8270E		1	1018599	DXD	EET EDI	01/29/25 15:30
Total/NA	Prep	3546			1018769	OTS	EET EDI	01/30/25 10:19
Total/NA	Analysis	8081B		1	1018895	FAM	EET EDI	01/31/25 04:56
Total/NA	Prep	3546			1018768	OTS	EET EDI	01/30/25 10:13
Total/NA	Analysis	8082A		1	1018810	AAA	EET EDI	01/30/25 18:27
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/31/25 00:06
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/31/25 00:06
Total/NA	Prep	3050B			1018730	FBT	EET EDI	01/30/25 07:39
Total/NA	Analysis	6020B		1	1019027	MDC	EET EDI	01/31/25 14:40
Total/NA	Prep	7471B			1018462	TJS	EET EDI	01/29/25 01:05
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 05:49
Total/NA	Prep	9012B			1018949	SBW	EET EDI	01/31/25 07:50
Total/NA	Analysis	9012B		1	1019019	AXP	EET EDI	01/31/25 12:26

Client Sample ID: 2A-08-CS-4
Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1020360	OXG	EET EDI	02/09/25 09:56

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-08-CS-4
Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	1020445	MVA	EET EDI	02/10/25 07:53

Client Sample ID: 2A-08-CS-4
Date Collected: 01/27/25 10:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-6
Matrix: Solid
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:24
Total/NA	Analysis	8260D		1	1020232	AAT	EET EDI	02/08/25 04:45
Total/NA	Prep	3546			1020235	GXY	EET EDI	02/07/25 19:33
Total/NA	Analysis	8270E		1	1020312	YAH	EET EDI	02/08/25 16:45
Total/NA	Prep	3546			1020217	ARA	EET EDI	02/07/25 16:40
Total/NA	Analysis	8081B		1	1020261	FAM	EET EDI	02/08/25 11:30
Total/NA	Prep	3546			1020213	ARA	EET EDI	02/07/25 16:19
Total/NA	Analysis	8082A		1	1020259	AAA	EET EDI	02/08/25 11:23
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020265	OXG	EET EDI	02/08/25 13:46
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020264	OXG	EET EDI	02/08/25 14:17
Total/NA	Prep	3050B			1020253	FBT	EET EDI	02/08/25 05:41
Total/NA	Analysis	6020B		1	1020512	JKF	EET EDI	02/10/25 16:36
Total/NA	Prep	7471B			1020392	TJS	EET EDI	02/10/25 00:50
Total/NA	Analysis	7471B		1	1020443	TJS	EET EDI	02/10/25 04:32
Total/NA	Prep	9012B			1020373	VBG	EET EDI	02/09/25 13:59
Total/NA	Analysis	9012B		1	1020386	VBG	EET EDI	02/09/25 15:32

Client Sample ID: 2A-08-CS-8
Date Collected: 01/27/25 10:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1020360	OXG	EET EDI	02/09/25 09:56
Total/NA	Analysis	Moisture		1	1020445	MVA	EET EDI	02/10/25 07:53

Client Sample ID: 2A-08-CS-8
Date Collected: 01/27/25 10:20
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-7
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:25
Total/NA	Analysis	8260D		1	1020232	AAT	EET EDI	02/08/25 05:10
Total/NA	Prep	3546			1020235	GXY	EET EDI	02/07/25 19:33
Total/NA	Analysis	8270E		1	1020312	YAH	EET EDI	02/08/25 17:05
Total/NA	Prep	3546			1020217	ARA	EET EDI	02/07/25 16:40
Total/NA	Analysis	8081B		1	1020261	FAM	EET EDI	02/08/25 11:46

Client Sample ID: 2A-08-CS-8

Lab Sample ID: 460-319357-7

Date Collected: 01/27/25 10:20

Matrix: Solid

Date Received: 01/27/25 13:50

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1020213	ARA	EET EDI	02/07/25 16:19
Total/NA	Analysis	8082A		1	1020259	AAA	EET EDI	02/08/25 11:40
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020265	OXG	EET EDI	02/08/25 14:02
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020264	OXG	EET EDI	02/08/25 14:33
Total/NA	Prep	3050B			1020253	FBT	EET EDI	02/08/25 05:41
Total/NA	Analysis	6020B		1	1020512	JKF	EET EDI	02/10/25 16:38
Total/NA	Prep	7471B			1020392	TJS	EET EDI	02/10/25 00:50
Total/NA	Analysis	7471B		1	1020443	TJS	EET EDI	02/10/25 04:34
Total/NA	Prep	9012B			1020373	VBG	EET EDI	02/09/25 13:59
Total/NA	Analysis	9012B		1	1020386	VBG	EET EDI	02/09/25 15:33

Client Sample ID: 2A-09-CS-4

Lab Sample ID: 460-319357-8

Date Collected: 01/27/25 10:30

Matrix: Solid

Date Received: 01/27/25 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018270	CJC	EET EDI	01/27/25 16:39

Client Sample ID: 2A-09-CS-4

Lab Sample ID: 460-319357-8

Date Collected: 01/27/25 10:30

Matrix: Solid

Date Received: 01/27/25 13:50

Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:26
Total/NA	Analysis	8260D		1	1018701	AAT	EET EDI	01/30/25 15:44
Total/NA	Prep	3546			1018556	ZEH	EET EDI	01/29/25 09:43
Total/NA	Analysis	8270E		1	1018599	DXD	EET EDI	01/29/25 16:27
Total/NA	Prep	3546			1018769	OTS	EET EDI	01/30/25 10:19
Total/NA	Analysis	8081B		1	1018895	FAM	EET EDI	01/31/25 05:09
Total/NA	Prep	3546			1018768	OTS	EET EDI	01/30/25 10:13
Total/NA	Analysis	8082A		1	1018810	AAA	EET EDI	01/30/25 18:44
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/31/25 00:22
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/31/25 00:22
Total/NA	Prep	3050B			1018730	FBT	EET EDI	01/30/25 07:39
Total/NA	Analysis	6020B		1	1019027	MDC	EET EDI	01/31/25 14:42
Total/NA	Prep	7471B			1018462	TJS	EET EDI	01/29/25 01:05
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 05:51
Total/NA	Prep	9012B			1018949	SBW	EET EDI	01/31/25 07:50
Total/NA	Analysis	9012B		1	1019019	AXP	EET EDI	01/31/25 12:27

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-09-CS-8
Date Collected: 01/27/25 10:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018270	CJC	EET EDI	01/27/25 16:39

Client Sample ID: 2A-09-CS-8
Date Collected: 01/27/25 10:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-9
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:27
Total/NA	Analysis	8260D		1	1018701	AAT	EET EDI	01/30/25 16:07
Total/NA	Prep	3546			1018556	ZEH	EET EDI	01/29/25 09:43
Total/NA	Analysis	8270E		1	1018599	DXD	EET EDI	01/29/25 16:46
Total/NA	Prep	3546			1018769	OTS	EET EDI	01/30/25 10:19
Total/NA	Analysis	8081B		1	1018895	FAM	EET EDI	01/31/25 05:22
Total/NA	Prep	3546			1018768	OTS	EET EDI	01/30/25 10:13
Total/NA	Analysis	8082A		1	1018810	AAA	EET EDI	01/30/25 19:00
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/31/25 00:37
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/31/25 00:37
Total/NA	Prep	3050B			1018730	FBT	EET EDI	01/30/25 07:39
Total/NA	Analysis	6020B		1	1019027	MDC	EET EDI	01/31/25 14:45
Total/NA	Prep	7471B			1018462	TJS	EET EDI	01/29/25 01:05
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 05:53
Total/NA	Prep	9012B			1018949	SBW	EET EDI	01/31/25 07:50
Total/NA	Analysis	9012B		1	1019019	AXP	EET EDI	01/31/25 12:28

Client Sample ID: 2A-01-TS
Date Collected: 01/27/25 11:00
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1020360	OXG	EET EDI	02/09/25 09:56
SPLP East	Leach	1312			1020383	YXG	EET EDI	02/09/25 15:07 - 02/10/25 09:00 [1]
SPLP East	Prep	7470A			1020708	RBS	EET EDI	02/11/25 15:00
SPLP East	Analysis	7470A		1	1020739	RBS	EET EDI	02/11/25 16:41
Total/NA	Analysis	Moisture		1	1020445	MVA	EET EDI	02/10/25 07:53

Client Sample ID: 2A-01-TS
Date Collected: 01/27/25 11:00
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-10
Matrix: Solid
Percent Solids: 59.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:28
Total/NA	Analysis	8260D		1	1020232	AAT	EET EDI	02/08/25 05:35

Client Sample ID: 2A-01-TS

Lab Sample ID: 460-319357-10
Date Collected: 01/27/25 11:00
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 59.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			1020235	GXY	EET EDI	02/07/25 19:33
Total/NA	Analysis	8270E		1	1020312	YAH	EET EDI	02/08/25 20:35
Total/NA	Prep	3546			1020217	ARA	EET EDI	02/07/25 16:40
Total/NA	Analysis	8081B		1	1020261	FAM	EET EDI	02/08/25 12:01
Total/NA	Prep	3546			1020213	ARA	EET EDI	02/07/25 16:19
Total/NA	Analysis	8082A		1	1020259	AAA	EET EDI	02/08/25 11:56
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020265	OXG	EET EDI	02/08/25 14:17
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020264	OXG	EET EDI	02/08/25 14:48
Total/NA	Prep	3050B			1020253	FBT	EET EDI	02/08/25 05:41
Total/NA	Analysis	6020B		1	1020512	JKF	EET EDI	02/10/25 16:41
Total/NA	Prep	7471B			1020392	TJS	EET EDI	02/10/25 00:50
Total/NA	Analysis	7471B		1	1020443	TJS	EET EDI	02/10/25 04:36
Total/NA	Prep	9012B			1020373	VBG	EET EDI	02/09/25 13:59
Total/NA	Analysis	9012B		1	1020386	VBG	EET EDI	02/09/25 15:27

Client Sample ID: 2A-01-CS

Lab Sample ID: 460-319357-11
Date Collected: 01/27/25 11:10
Matrix: Solid
Date Received: 01/27/25 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1020360	OXG	EET EDI	02/09/25 09:56
Total/NA	Analysis	Moisture		1	1020445	MVA	EET EDI	02/10/25 07:53

Client Sample ID: 2A-01-CS

Lab Sample ID: 460-319357-11
Date Collected: 01/27/25 11:10
Matrix: Solid
Date Received: 01/27/25 13:50
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:29
Total/NA	Analysis	8260D		1	1020232	AAT	EET EDI	02/08/25 06:00
Total/NA	Prep	3546			1020235	GXY	EET EDI	02/07/25 19:33
Total/NA	Analysis	8270E		1	1020312	YAH	EET EDI	02/08/25 17:24
Total/NA	Prep	3546			1020217	ARA	EET EDI	02/07/25 16:40
Total/NA	Analysis	8081B		1	1020261	FAM	EET EDI	02/08/25 12:17
Total/NA	Prep	3546			1020213	ARA	EET EDI	02/07/25 16:19
Total/NA	Analysis	8082A		1	1020259	AAA	EET EDI	02/08/25 12:13
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020265	OXG	EET EDI	02/08/25 14:33
Total/NA	Prep	3546			1020128	OTS	EET EDI	02/07/25 16:17
Total/NA	Analysis	NJDEP EPH		1	1020264	OXG	EET EDI	02/08/25 15:04
Total/NA	Prep	3050B			1020253	FBT	EET EDI	02/08/25 05:41
Total/NA	Analysis	6020B		1	1020512	JKF	EET EDI	02/10/25 16:44

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-01-CS
Date Collected: 01/27/25 11:10
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-11
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			1020392	TJS	EET EDI	02/10/25 00:50
Total/NA	Analysis	7471B		1	1020443	TJS	EET EDI	02/10/25 04:41
Total/NA	Prep	9012B			1020373	VBG	EET EDI	02/09/25 13:59
Total/NA	Analysis	9012B		1	1020386	VBG	EET EDI	02/09/25 15:34

Client Sample ID: 2A-02-TS
Date Collected: 01/27/25 11:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018270	CJC	EET EDI	01/27/25 16:39

Client Sample ID: 2A-02-TS
Date Collected: 01/27/25 11:30
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-12
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:30
Total/NA	Analysis	8260D		1	1018701	AAT	EET EDI	01/30/25 16:30
Total/NA	Prep	3546			1018556	ZEH	EET EDI	01/29/25 09:43
Total/NA	Analysis	8270E		1	1018599	DXD	EET EDI	01/29/25 20:56
Total/NA	Prep	3546			1018769	OTS	EET EDI	01/30/25 10:19
Total/NA	Analysis	8081B		1	1018827	FAM	EET EDI	01/30/25 19:33
Total/NA	Prep	3546			1018768	OTS	EET EDI	01/30/25 10:13
Total/NA	Analysis	8082A		1	1018810	AAA	EET EDI	01/30/25 19:17
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/31/25 00:53
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/31/25 00:53
Total/NA	Prep	3050B			1018730	FBT	EET EDI	01/30/25 07:39
Total/NA	Analysis	6020B		1	1019027	MDC	EET EDI	01/31/25 14:47
Total/NA	Prep	7471B			1018462	TJS	EET EDI	01/29/25 01:05
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 05:54
Total/NA	Prep	9012B			1018949	SBW	EET EDI	01/31/25 07:50
Total/NA	Analysis	9012B		1	1019019	AXP	EET EDI	01/31/25 12:33

Client Sample ID: 2A-02-CS
Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	NJ DEP EPH		1	1018789	JHP	EET EDI	01/30/25 11:49
Total/NA	Analysis	Moisture		1	1018270	CJC	EET EDI	01/27/25 16:39

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Client Sample ID: 2A-02-CS

Date Collected: 01/27/25 11:40
Date Received: 01/27/25 13:50

Lab Sample ID: 460-319357-13

Matrix: Solid
Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1018274	YXG	EET EDI	01/27/25 18:31
Total/NA	Analysis	8260D		1	1018701	AAT	EET EDI	01/30/25 16:53
Total/NA	Prep	3546			1018556	ZEH	EET EDI	01/29/25 09:43
Total/NA	Analysis	8270E		1	1018599	DXD	EET EDI	01/29/25 15:49
Total/NA	Prep	3546			1018769	OTS	EET EDI	01/30/25 10:19
Total/NA	Analysis	8081B		1	1018827	FAM	EET EDI	01/30/25 19:49
Total/NA	Prep	3546			1018768	OTS	EET EDI	01/30/25 10:13
Total/NA	Analysis	8082A		1	1018810	AAA	EET EDI	01/30/25 19:34
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018830	JHP	EET EDI	01/31/25 01:09
Total/NA	Prep	3546			1018774	DXD	EET EDI	01/30/25 10:45
Total/NA	Analysis	NJDEP EPH		1	1018831	JHP	EET EDI	01/31/25 01:09
Total/NA	Prep	3050B			1018730	FBT	EET EDI	01/30/25 07:39
Total/NA	Analysis	6020B		1	1019027	MDC	EET EDI	01/31/25 14:52
Total/NA	Prep	7471B			1018462	TJS	EET EDI	01/29/25 01:05
Total/NA	Analysis	7471B		1	1018522	TJS	EET EDI	01/29/25 06:00
Total/NA	Prep	9012B			1018949	SBW	EET EDI	01/31/25 07:50
Total/NA	Analysis	9012B		1	1019019	AXP	EET EDI	01/31/25 12:34

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-26
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-03-26
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	02-18-25
New York	NELAP	11452	03-31-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-23-25
USDA	US Federal Programs	525-24-149-77606	05-21-27

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
NJ DEP EPH	New Jersey - Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
NJDEP EPH	New Jersey Extractable Petroleum Hydrocarbons	NJDEP	EET EDI
6020B	Metals (ICP/MS)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
9012B	Cyanide, Total andor Amenable	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
1312	SPLP Extraction	SW846	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

NJDEP = New Jersey Department of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Manchester LF

Job ID: 460-319357-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-319357-1	Trip Blank	Water	01/27/25 11:40	01/27/25 13:50
460-319357-2	2A-04-CS-4	Solid	01/27/25 08:50	01/27/25 13:50
460-319357-3	2A-04-CS-8	Solid	01/27/25 08:40	01/27/25 13:50
460-319357-4	2A-03-CS-4	Solid	01/27/25 09:20	01/27/25 13:50
460-319357-5	2A-03-CS-8	Solid	01/27/25 09:30	01/27/25 13:50
460-319357-6	2A-08-CS-4	Solid	01/27/25 10:10	01/27/25 13:50
460-319357-7	2A-08-CS-8	Solid	01/27/25 10:20	01/27/25 13:50
460-319357-8	2A-09-CS-4	Solid	01/27/25 10:30	01/27/25 13:50
460-319357-9	2A-09-CS-8	Solid	01/27/25 10:40	01/27/25 13:50
460-319357-10	2A-01-TS	Solid	01/27/25 11:00	01/27/25 13:50
460-319357-11	2A-01-CS	Solid	01/27/25 11:10	01/27/25 13:50
460-319357-12	2A-02-TS	Solid	01/27/25 11:30	01/27/25 13:50
460-319357-13	2A-02-CS	Solid	01/27/25 11:40	01/27/25 13:50

Chain of Custody Record 762494

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Address. 777 New Durham Rd
Edison, NJ 08817
732-549-3900

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Mike Nolden	Site Contact: Ed Horz	Date: 1/27/25	COC No:
Company Name: Geosyntec Consultants	Tel/Email. mnolden@geosyntec.com	Lab Contact:	Carrier:	1 of 2 COCs
Address. 1750 American Blvd ste 220	Analysis Turnaround Time			Sampler: EH
City/State/Zip: Pennington NJ 08534	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone 201-438-5412	TAT if different from Below 5			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling
Project Name: Manchester LF				Job / SDG No.
Site: Manchester LF				
PO #				319357 Sample Specific Notes.

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260D TCL VOA +10	NJEPH Frac, 8081B	8082A, 6020B TAL/Hg	7470A, 8270E SPLP	8260D SPLP TCL VOA	8270E SPLP TCL SVOA	8081B SPLP, 6020B SPLP	7470A SPLP, 9012B SPLP	8260D TCL VOA +10	NJEPH No Frac	8270E TCL BNA +20	8081B, 8082A	6020B TAL/Hg/V/Hg	7470A, 9012B total	Sample Specific Notes.
Trip Blank	1/24/25	-	G	W	2											X						-1
2A-04-CS-4	1/27/25	0850	G	S	9			H	H	H	H	H	H	H	H							-2
2A-04-CS-8	1/27/25	0840	G	S	9			H	H	H	H	H	H	H	H							-3
2A-03-CS-4	1/27/25	0920	G	S	9			X	X	X	X	H	H	H	H							-4
2A-03-CS-8	1/27/25	0930	G	S	9			X	X	X	X	H	H	H	H							-5
2A-08-CS-4	1/27/25	1010	G	S	9			H	H	H	H	H	H	H	H							-6
2A-08-CS-8	1/27/25	1020	G	S	9			H	H	H	H	H	H	H	H							-7
2A-09-CS-4	1/27/25	1030	G	S	9			X	X	X	Y	H	H	H	H							-8
2A-09-CS-8	1/27/25	1040	G	S	9			X	X	X	X	H	H	H	H							-9
2A-01-TS	1/27/25	1100	G	S	9			H	H	H	H	H	H	H	H							-10
2A-01-CS	1/27/25	1110	G	S	9			H	H	H	H	H	H	H	H							-11
2A-02-TS	1/27/25	1130	G	S	9			X	X	X	X	H	H	H	H							-12

460-319357 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other — 1 1 1 1 1 1 1 1 2 2 1 1 4 5

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments:

* Refer to Lab #46045604 for analyses
* Hold all SPLP + extract as needed
X = Run sample
H = Hold sample
2 Coolers

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd. ____ Corr'd. ____ | Therm ID No. ____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by: Ed Horz	Geosyntec	1/27/25 1350	Received by: B Platt		1/29/25 13:50
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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4/1/2025

Address. 777 New Durham Rd
Edison, NJ 08817
732-549-3900

Chain of Custody Record 762497

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Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Mike Nolden	Site Contact: Ed Horn	Date: 1/27/25	COC No:
Company Name: Geosyntec Consultants	Tel/Email: MNolden@geosyntec.com	Lab Contact:	Carrier:	2 of 2 COCs
Address: 1750 American Blvd Ste 200	Analysis Turnaround Time			Sampler: EH
City/State/Zip: Pennington NJ 08534	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only
Phone: 201-438-5412	TAT if different from Below 5			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Manchester LF	☐ 1 week			Job / SDG No.
Site: Manchester LF	☐ 2 days			
PO #	☐ 1 day			319357

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260D TCL VOA +10	NJEPH Frac, 8081B	8082A, 6020B s/Hg	7471B, 9012B, 8270E	8260D SPLP	8270E SPLP	8081B SPLP, 9012B SPLP	7470A SPLP, 9012B SPLP	8260D TCL VOA +10	NJ EPH NO Frac	8270E TCL BNA +20	8081B, 8082A	6020B TAL metal (wtlk)	7470A, 9012B (wtlk)				Sample Specific Notes:
2A-02-CS	1/27/25	1140	G	S	9			X	X	X	X	H	H	H	H										-13

EH 1/27/25

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

								1	1	1	1	1	1	1	1	2	2	1	1	4	X			

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☒ Archive for 1 Months

Special Instructions/QC Requirements & Comments.

Refer to Lab # 46045604 for analyses

* Hold all SPLP + extract as needed

X = Run sample
H = Hold sample

2 coolers

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C): Obs'd: | Corr'd: | Therm ID No.:

	Company	Date/Time		Company	Date/Time
Relinquished by: EH	Geosyntec	1/27/25 1550	Received by:		1/27/25 1550
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

12 9 12-14 16-18

4/1/2025

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 319357

Number of Coolers: 2 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.2°C	1.4°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	1.6°C	1.8°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below.

Sample No(s). adjusted: _____

Preservative Name/Conc. _____ Volume of Preservative used (ml) _____

Lot # of Preservative(s). _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038 Rev 4.1
10/22/2019

Initials: BRalls Date: 11/29/25

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 460-319357-1

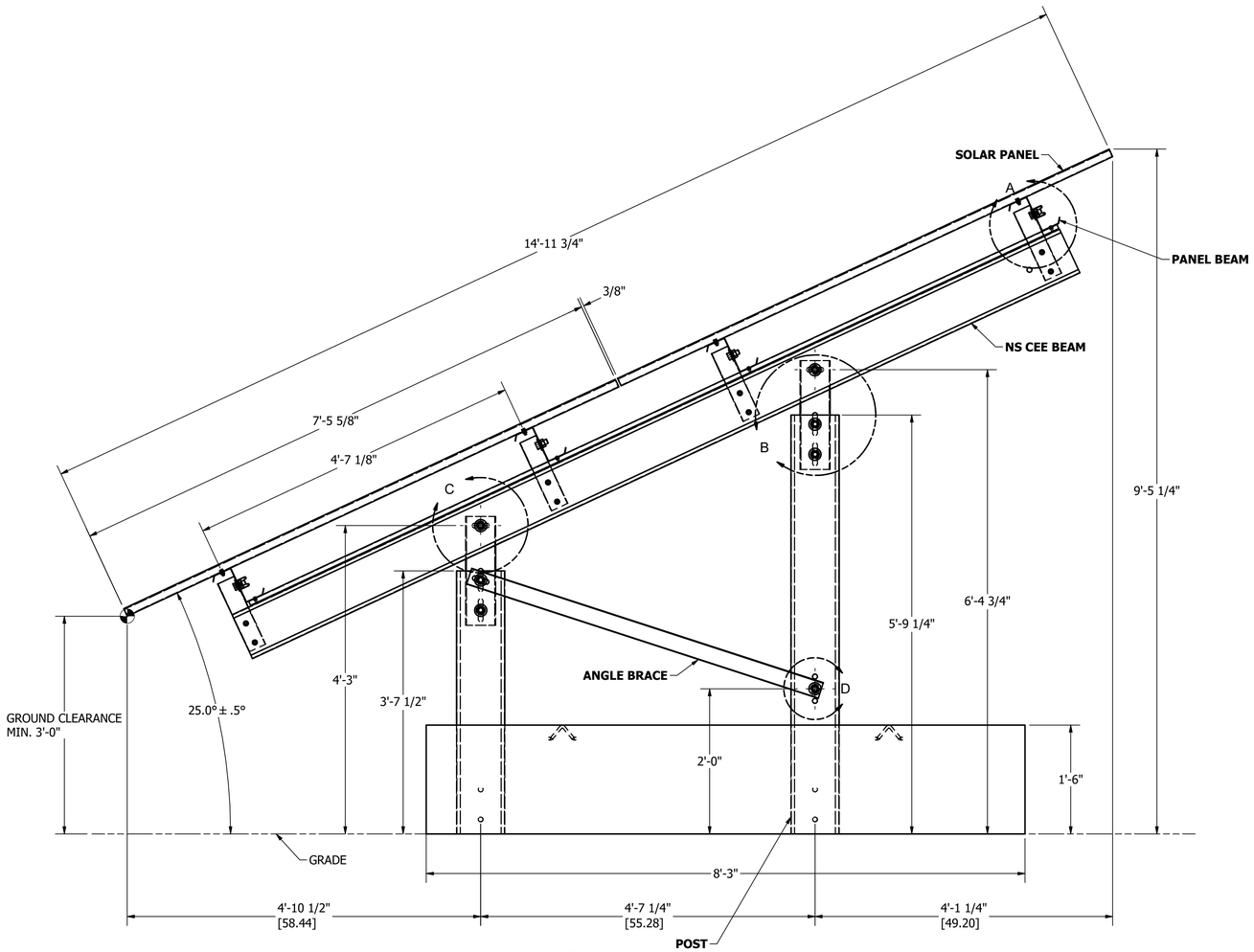
Login Number: 319357
List Number: 1
Creator: Nelson, Rose E

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Attachment H

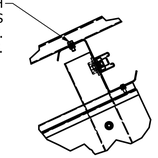
APPENDIX- A
STRUCTURAL DETAIL DRAWING



SIDE VIEW
VIEW1
SCALE 1 : 12

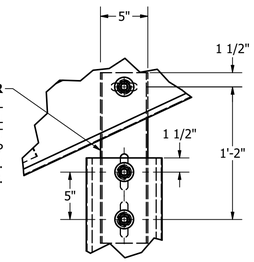
ALL PANEL MOUNTING HARDWARE CALLED OUT BELOW WILL BE PROVIDED BY DCE SOLAR. ANY CUSTOMIZED PANEL MOUNTING HARDWARE PROVIDED BY OTHERS MAY VOID DCE SOLAR'S UL2703 CERTIFICATION.

PANEL ATTACHES TO PANEL BEAMS WITH (4) 5/16-18 X 3/4" SERRATED FLANGE CAP SCREWS AND 5/16-18 SERRATED FLANGE NUTS. TORQUE TO 15 FT-LBS.



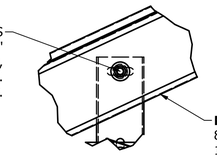
DETAIL A
SCALE 1 / 8

TOP BEAM ADAPTER
5" X 1.75" X 18" X 8G CHANNEL
ASTM A653 GALVANIZED GRADE 50 SS STEEL
ATTACHES TO NS BEAM AND COLUMN POST WITH (3) 3/4-10 X 1.5" SERRATED FLANGE CAP SCREW, WASHER, AND SERRATED FLANGE NUT. TORQUE TO 250 FT-LB.



DETAIL B
SCALE 1 / 8

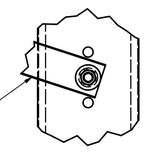
ANGLE BRACE ATTACHES TO NS BEAM WITH (1) 3/4-10 X 1.5" GRADE 5 STEEL HHCS, WASHER, AND SERRATED FLANGE NUT. TORQUE TO 250 FT-LBS.



NS BEAM
8" X 2" X 0.625"
14 GAUGE
ASTM A653 GALVNAIZED
GRADE 80 SS STEEL

DETAIL C
SCALE 1 / 8

ANGLE BRACE
2.75" X 1.75" U-CHANNEL,
14 GAUGE
ASTM A653 GALVANIZED
GRADE 50 SS STEEL



DETAIL D
SCALE 1 / 6

PROJECT INFORMATION
INSTALLATION ADDRESS:
1501 NJ 70, Whiting, NJ 08759

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3. These drawings and notes are for this specific project and no other use is authorized.

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-Ground Snow Load pg = 20 psf
-Importance Factor Is = 0.8
-Exposure Factor Ce = 0.9
-Slope Snow Load ps = 9.90 psf

Wind Loads:
-MRI Factor = 1.00
-Basic Wind Speed V = 109 mph
-Iw = 1
-Exposure = C
-Wind Design performed in accordance with the requirements of ASCE - Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWO BLWT Laboratory dated 12/11/14.

Seismic Loads:
-SS = 0.185g, S1 = 0.047g
-Site Class = D
-SDS = 0.200g, SD1 = 0.080g
-Seismic Design Category = B
-Ordinary Steel Cantilever Column System

5. Material strengths:
-Hot-rolled structural steel ASTM A992 GR50.
-Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted.
-Formed Steel Brackets - ASTM A653 Galvanized Grade 50 SS
-I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85
-Plate - A36 Steel, Hot Dip Galvanized
-Connectors - Stainless Steel unless otherwise noted.

6. Members and connections have been designed for worst-case loading associated with exterior zones of the array per the wind tunnel report.

7. For the purposes of this project, all arrays are classified as Exterior Arrays.

8. Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others.

Engineer of Record

PRELIMINARY - NOT FOR CONSTRUCTION UNTIL STAMPED BY PE

REVISION HISTORY			
REV	DESCRIPTION	DESIGNER	DATE
0	STRUCTURAL DETAIL DRAWING	CPATTERSON	5/13/2025
1	REVISED GML ON PAGE 5	CPATTERSON	6/2/2025
2	REMOVED 2X7 TABLE, REVISED GML ON PAGE 5	CPATTERSON	7/23/2025

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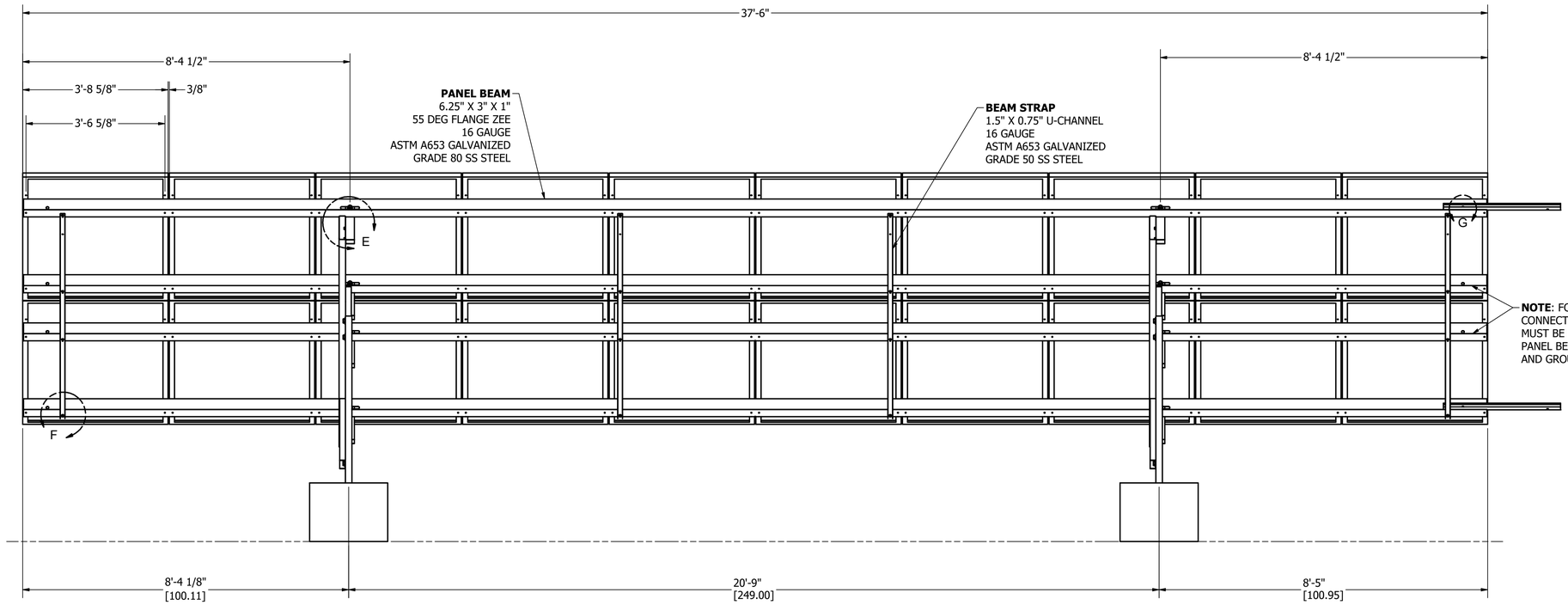
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
TOLERANCES ARE AS FOLLOWS:
.X = ± 0.100" (2.54mm)
.XX = ± 0.030" (0.76mm)
.XXX = ± 0.010" (0.25mm)
ANGLE = ± 5°
MIN. BREAK = 0.012" (0.3mm)
SURFACE FINISH = 63 (US)

Material:
Weight: 9325.856 lbmass
Description: **CT-LS-DC-B, ZNSHINE ZXM7-SHDB144, 2x10, 25 DEG, MANCHESTER TOWNSHIP LANDFILL, NEXTGRID ENERGY LLC**
Project: MANCHESTER TOWNSHIP LANDFILL
Drawn: CPATTERSON
Date: 7/23/2025
Scale:
Sheet: 1 of 5

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Phone:1-704-659-7474

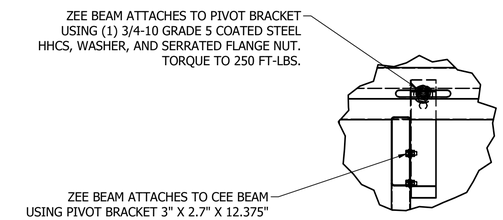
Format: D
Part Number: **6523**
Rev: 2

STRUCTURAL DETAIL DRAWING - REAR

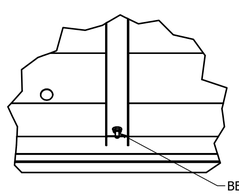


REAR VIEW

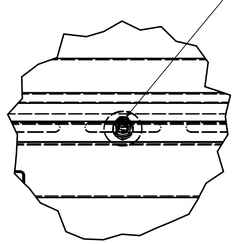
VIEW3
SCALE 1 /20



DETAIL E
SCALE 1 / 8



DETAIL F
SCALE 1 / 5



DETAIL G
SCALE 1 / 3

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PROJECT INFORMATION

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Engineer of Record

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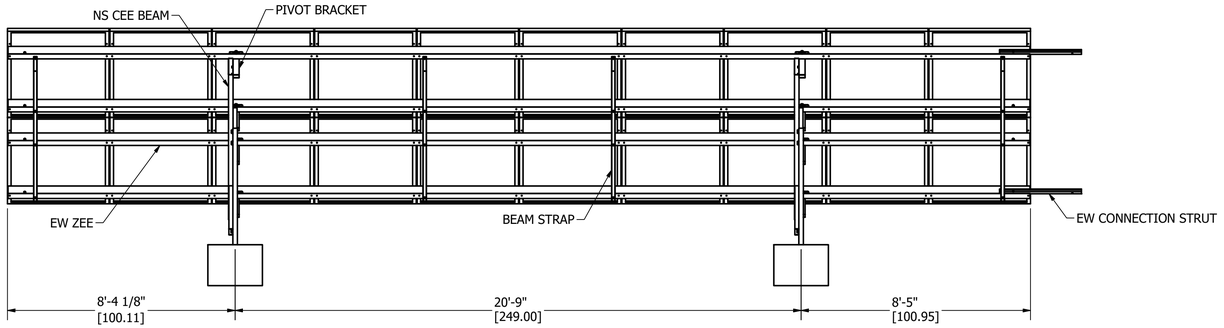
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Description: **CT-LS-DC-B, ZNSHINE ZXM7-SHDB144, 2x10, 25 DEG, MANCHESTER TOWNSHIP LANDFILL, NEXTGRID ENERGY LLC**
Project: MANCHESTER TOWNSHIP LANDFILL
Drawn: CPATTERSON
Date: 7/23/2025
Scale:
Sheet: 2 of 5

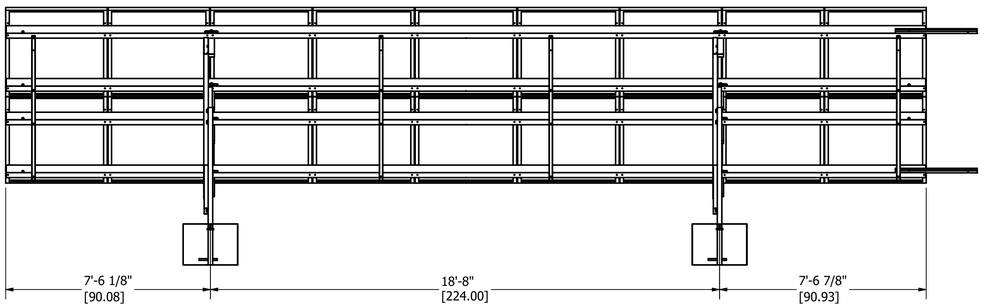
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Phone:1-704-659-7474

Format: D
Part Number: **6523**
Rev: 2



REAR VIEW
2X10 ARRAY
VIEW13
SCALE 0.03 : 1



REAR VIEW
2X9 ARRAY
VIEW27
SCALE 0.03 : 1

PANEL SPECIFICATION	
NAME	DESCRIPTION
MANUFACTURER	ZNSHINE
MODEL	ZXM7-SHDB144
LENGTH (mm)	2278
WIDTH (mm)	1134
THICKNESS (mm)	35

MATERIAL DESCRIPTION

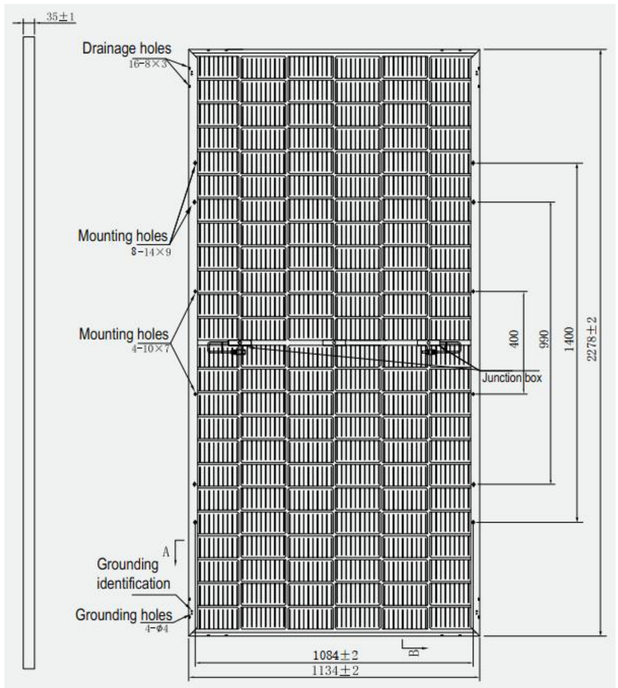
MEMBER	SHAPE	MATERIAL	GAGE
PANEL BEAM	6.25Z3X1X55DEG	A653 SS Gr80	16GA
NS CEE BEAM	8CS2X0.625	A653 SS Gr80	14GA
KICKER BRACE	2.75CU1.75	A653 SS Gr50	14GA
BEAM BRACE	1.5CU0.75	A653 SS Gr50	16GA
POST	CEE POST 8 X 2 X .625	A653 SS Gr80	14GA

NOTES

*ADJUSTED UPLIFT IS ASSUMED AS 70% OF THE DOWNWARD LOAD. IT'S RECOMMENDED TO USE THIS LOAD FOR PULL TEST IN CASE PUSH TEST CANNOT BE PERFORMED.
1: USE ADJUSTED UPLIFT IF NO REFUSAL IS ENCOUNTERED.
2: USE UPLIFT FORCE IN CASE OF REFUSAL.
3: FOR UPLIFT AND LATERAL FORCES USE SAFETY FACTOR OF 1.5 AND 2, RESPECTIVELY.

IN-FIELD PILE REMEDIATION

ANY IN-FIELD REMEDIATION REQUIRING THE CUTTING OR DRILLING OF GALVANIZED MATERIAL SHOULD FOLLOW ONE OF THESE TWO GUIDELINES TO COAT AND TREAT METALS THAT ARE EXPOSED TO GALVANIZATION DAMAGE:
1. USE PAINTS CONTAINING ZINC DUST (IN ACCORDANCE WITH "ASTM A 780-01" SECTION A2)
2. USE ZINC SPRAY (IN ACCORDANCE WITH "ASTM A 780-01" SECTION A3) ONE OF THE ABOVE GUIDELINES MUST BE FOLLOWED TO MAINTAIN THE DCE WARRANTY REQUIREMENTS.



PROJECT INFORMATION

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Engineer of Record

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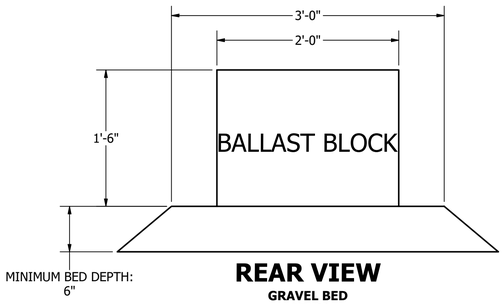
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MIN. BREAK = 0.012" (0.3mm)
SURFACE FINISH = 63 (US)

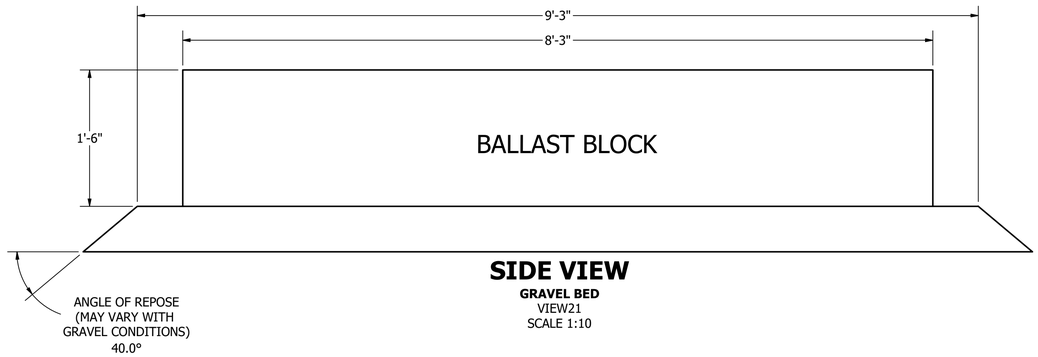
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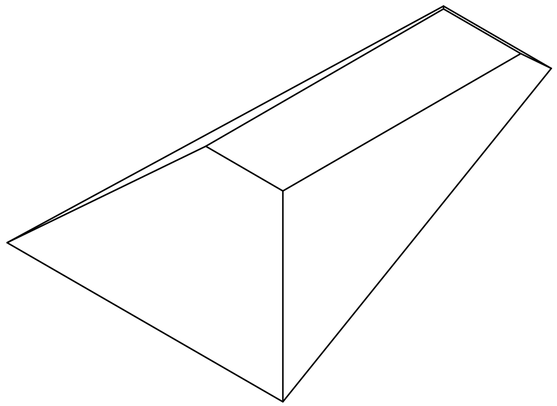
Format: D
Part Number: **6523**
Rev: 2



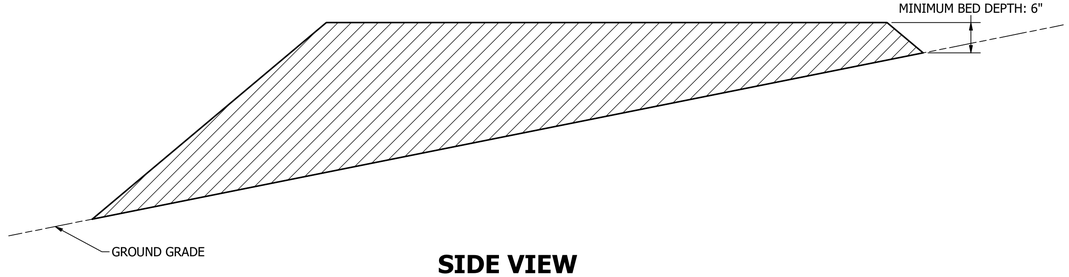
REAR VIEW
GRAVEL BED
VIEW20
SCALE 1:10



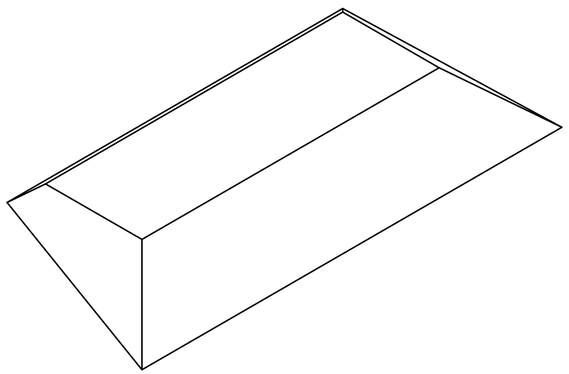
SIDE VIEW
GRAVEL BED
VIEW21
SCALE 1:10



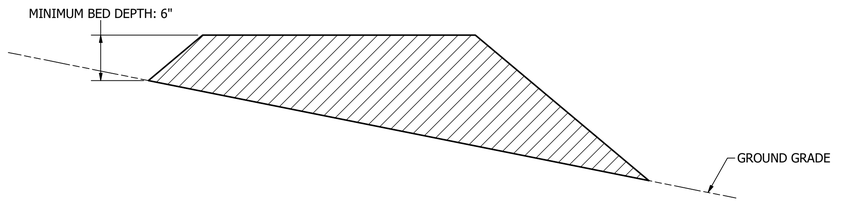
ISO VIEW
NORTH OR SOUTH GRADE OF 20%
VIEW23
SCALE 1:25



SIDE VIEW
NORTH OR SOUTH GRADE OF 20%
AB-AB
SCALE 1:15



ISO VIEW
EAST OR WEST GRADE OF 20%
VIEW24
SCALE 1:20



FRONT VIEW
EAST OR WEST GRADE OF 20%
AC-AC
SCALE 1:10

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Snow Loads:
-Ground Snow Load pg = 20 psf
-Importance Factor Is = 0.8
-Exposure Factor Ce = 0.9
-Slope Snow Load ps = 9.90 psf

Wind Loads:
-MRI Factor = 1.00
-Basic Wind Speed V = 109 mph
-Iw = 1
-Exposure = C
-Wind Design performed in accordance with the requirements of ASCE - Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWO BLWT Laboratory dated 12/11/14.

Seismic Loads:
-SS = 0.185g, S1 = 0.047g
-Site Class = D
-SDS = 0.200g, SD1 = 0.080g
-Seismic Design Category = B
-Ordinary Steel Cantilever Column System

5. Material strengths:
-Hot-rolled structural steel ASTM A992 GR50.
-Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted.
-Formed Steel Brackets - ASTM A653 Galvanized Grade 50 SS
-I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85
-Plate - A36 Steel, Hot Dip Galvanized
-Connectors - Stainless Steel unless otherwise noted.

6. Members and connections have been designed for worst-case loading associated with exterior zones of the array per the wind tunnel report.

7. For the purposes of this project, all arrays are classified as Exterior Arrays.

8. Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others.

Engineer of Record

PRELIMINARY - NOT FOR CONSTRUCTION UNTIL STAMPED BY PE

PROPRIETARY AND CONFIDENTIAL

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DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
TOLERANCES ARE AS FOLLOWS:

.X = ± 0.100" (2.54mm)
.XX = ± 0.030" (0.76mm)
.XXX = ± 0.010" (0.25mm)

ANGLE = ± 5°
MIN. BREAK = 0.012" (0.3mm)

SURFACE FINISH = 63 (US)

Material:	
Weight:	4828.330 lbmass
Description:	**CT-LS-DC-B, ZNSHINE ZXM7-SHDB144, 2x10, 25 DEG, MANCHESTER TOWNSHIP LANDFILL, NEXTGRID ENERGY LLC**
Project:	MANCHESTER TOWNSHIP LANDFILL
Drawn: CPATTERSON	Date: 7/23/2025
Scale:	Sheet: 4 of 5

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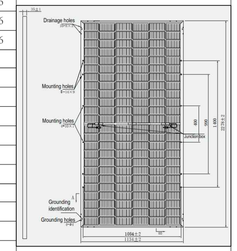
Format:	Part Number	Rev:
D	**GRAVEL BED WITH BLOCK**	2

Contour ™

PROJECT INFORMATION	
PROJECT NAME	MANCHESTER TOWNSHIP LANDFILL
INSTALLATION ADDRESS	1501 NJ 70, WHITING, NJ 08759
CLIENT	NEXTGRID ENERGY LLC

SITE SPECIFICATION		
WIND SPEED (MPH)	109	ASCE 7-16
SNOW LOAD (PSF)	20	ASCE 7-16
EXPOSURE CATEGORY	C	ASCE 7-16
RISK CATEGORY	I	ASCE 7-16

PANEL SPECSHEET



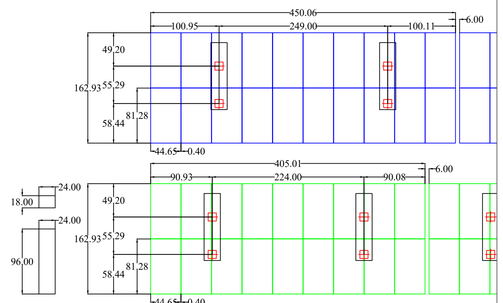
PANEL SPECIFICATION	
MODEL	ZNSHINE ZXM7-SHDB144
LENGTH (mm)	2278
WIDTH (mm)	1134
WEIGHT (lb)	61.7
PANEL WATTAGE (W)	550
PROJECT PANEL COUNT	9,308

SYSTEM INFORMATION	
ARRAY CONFIGURATION	2X10, 2X9
SYSTEM SIZE (W)	5,119,400
ARRAY TILT (°)	25
GROUND CLEARANCE (in)	36

ARRAY DETAILS	
ITEM	QUANTITY
2X10 TABLES	379
2X9 TABLES	96
BALLAST BLOCKS	950
ALTERNATE ARRAY CONNECTIONS	127

CAD BLOCK

PRELIMINARY - NOT FOR CONSTRUCTION UNTIL STAMPED BY PE



GENERAL NOTES

1. **PROPRIETARY AND CONFIDENTIAL**

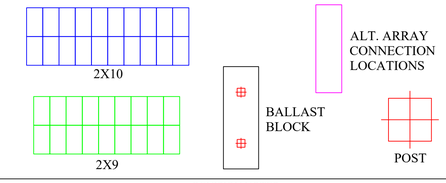
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2. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND SHALL AT ALL TIMES TAKE REASONABLE PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES ON THE PROJECT, AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE, AND MUNICIPAL SAFETY LAWS AND BUILDING CONSTRUCTIONS CODES.

3. CUSTOMER PROVIDED SITE LAYOUTS WERE USED TO GENERATE THE LAYOUT AS SHOWN.

4. ANY CHANGES TO THE LAYOUT SHOWN THAT MAY CAUSE ERRORS DURING INSTALLATION ARE NOT THE RESPONSIBILITY OF DCE SOLAR.

LEGEND DETAILS



REVISION NOTES

REV	DESCRIPTION	PREPARED BY	DATE
0	GROUND MOUNT LAYOUT	CPATTERSON	5/13/2025
1	REVISED CAD LAYERS	CPATTERSON	6/2/2025
2	REVISED LAYOUT, REMOVED 2X7 TABLES	CPATTERSON	7/23/2025
3			
4			

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Phone:1-704-659-7474

Format: D

SHEET: 5 OF 5

Attachment I

Activity	Working Days	Start Date	End Date
Initial Mobilization & Layout	5	3/2/2026	3/6/2026
Installation of Silt Sock & Entrance	10	3/4/2026	3/17/2026
Tree Clearing & Grubbing	15	3/9/2026	4/10/2026
Cut to Fill of Waste & Temp Cover	45	3/30/2026	5/29/2026
Installation of Sand Cap	35	5/18/2026	7/3/2026
Installation of Topsoil Cap	20	6/22/2026	7/17/2026
Seeding & Restoration of Basins	15	7/6/2026	7/24/2026
Demobilization	10	7/20/2026	7/31/2026

Attachment J

Manchester Township Landfill PID 132555

(Facility Name and Number)

Sanitary Landfill Closure Plan

Financial Schedule "A"

	PROVISIONS NJAC 7:26-2A.9(e)&(f)	TOTAL CLOSURE COSTS Yrs.(2026 - 2026)	TOTAL POST-CLOSURE COSTS Yrs.(2027 - 2056)	TOTAL CLOSURE/POST-CLOSURE COSTS Yrs.(2026 -2056)
6	i. Soil Erosion and Sediment Control Plan	$143,807.50	N/A	$143,807.50
7	ii. Final Cover	$3,165,739.55	N/A	$3,165,739.55
8	iii. Final Cover Vegetation	(Included Line 7)	N/A	(Included Line 7)
9	iv. Maintenance Program for Final Cover and Final Cover Vegetation	N/A	$548,127.97	$548,127.97
10	v. Maintenance Program for Side Slopes	N/A	$0.00	$0.00
11	vi. Run On/Run Off Control Program	$1,155,985.75	N/A	$1,155,985.75
12	vii. Maintenance Program for Run On/ Run off Control system	N/A	$953,216.04	$953,216.04
13	viii. Groundwater Monitoring Wells	$12,000.00	N/A	$12,000.00
14	ix. Maintenance Program for Ground-water Monitoring wells	N/A	$10,118.58	$10,118.58
15	x. Groundwater Monitoring in Accordance with NJAC 7:14A-1	N/A	$1,011,857.80	$1,011,857.80
16	xi. Methane Gas Venting or Evacuation System	$153,352.50	N/A	$153,352.50
17	xii. Maintenance Program for Methane Gas Venting or Evacuation System	$0.00	$118,893.29	$118,893.29
18	xiii. Leachate Collection and/or Control System	$0.00	N/A	$0.00
19	xiv. Maintenance for Leachate Collection and/or Control System	N/A	$0.00	$0.00
20	xv. Facility Access Control System	$472,736.25	N/A	$472,736.25
21	xvi. Maintenance for Facility Access Control System	N/A	$311,752.05	$311,752.05
22	xvii. Measure to Conform the Site to Surrounding Area	$0.00	N/A	$0.00
23	xviii. Maintenance Program for Site Conformance Measures	N/A	$0.00	$0.00
24	General Conditions	$497,593.50	$0.00	$497,593.50
				$0.00
25	O&M Inspection & Reporting		$643,909.51	$643,909.51
26	Engineer Reports		$331,153.46	$331,153.46

27	**Total Costs**	$	5,601,215	$	3,929,029	$ 9,530,244
28	**Funding Sources:**					
29	1.Solar Developer/Lessee	$	5,601,215	$	-	$ 5,601,215
30	2. Manchester Township			$	3,929,029	$ 3,929,029
31	3. DEP ($1.00/ton) Escrow Account	$	-	$	-	$ -
32	Total Funding Sources	$	5,601,215	$	3,929,029	$ 9,530,244

Manchester Township Landfill PID 132555

(Facility Name and Number)

Sanitary Landfill Post-Closure Plan

Financial Schedule "B"

PROVISIONS NJAC 7:26-2A.9(e)&(f)	TOTAL POST-CLOSURE COSTS	Year #1	Year #2	Year #3	Year #4	Year #5	Year #6	Year #7
i. Soil Erosion and Sediment Control Plan	N/A							
ii. Final Cover	N/A							
iii. Final Cover Vegetation	N/A							
iv. Maintenance Program for Final Cover and Final Cover Vegetation	$548,127.97	$11,917.50	$12,250.06	$12,591.91	$12,943.29	$13,304.48	$13,675.75	$14,057.38
v. Maintenance Program for Side Slopes	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
vi. Run On/Run Off Control Program	N/A							
vii. Maintenance Program for Run On/ Run off Control system	$953,216.04	$20,725.00	$21,303.34	$21,897.82	$22,508.89	$23,137.02	$23,782.67	$24,446.33
viii. Groundwater Monitoring Wells	N/A							
ix. Maintenance Program for Ground-water Monitoring wells	$10,118.58	$220.00	$226.14	$232.45	$238.94	$245.60	$252.46	$259.50
x. Groundwater Monitoring in Accordance with NJAC 7:14A-1	$1,011,857.80	$22,000.00	$22,613.92	$23,244.98	$23,893.64	$24,560.40	$25,245.77	$25,950.27
xi. Methane Gas Venting or Evacuation System	N/A							
xii. Maintenance Program for Methane Gas Venting or Evacuation System	$118,893.29	$2,585.00	$2,657.14	$2,731.28	$2,807.50	$2,885.85	$2,966.38	$3,049.16
xiii. Leachate Collection and/or Control System	N/A							
xiv. Maintenance for Leachate Collection and/or Control System	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
xv. Facility Access Control System	N/A							
xvi. Maintenance for Facility Access Control System	$311,752.05	$6,778.17	$6,967.32	$7,161.75	$7,361.60	$7,567.03	$7,778.19	$7,995.24
xvii. Measure to Conform the Site to Surrounding Area	N/A							
xviii. Maintenance Program for Site Conformance Measures	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
General Conditions	$0.00	$0.00						
O&M Inspection & Reporting	$643,909.51	$14,000.00	$14,390.68	$14,792.26	$15,205.04	$15,629.35	$16,065.49	$16,513.81
Engineer Reports	$331,153.46	$7,200.00	$7,400.92	$7,607.45	$7,819.74	$8,037.95	$8,262.25	$8,492.82
Total Costs	$3,929,028.69	$85,425.67	$87,809.52	$90,259.89	$92,778.64	$95,367.68	$98,028.96	$100,764.51
Funding Sources:								
1.Solar Developer/Lessee	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2. Manchester Township	$3,929,028.69	$85,425.67	$87,809.52	$90,259.89	$92,778.64	$95,367.68	$98,028.96	$100,764.51
3. DEP ($1.00/ton) Escrow Account	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Funding Sources	$3,929,028.69	$85,425.67	$87,809.52	$90,259.89	$92,778.64	$95,367.68	$98,028.96	$100,764.51

	Gross Domestic Product: Implicicit Price Deflator
Q1 2015	96.769
Q1 2025	127.429
10 Year Inflation Rate	1.027905529 note - shown as 1 + inflation rate

Year #8	Year #9	Year #10	Year #11	Year #12	Year #13	Year #14	Year #15	Year #16	Year #17	Year #18	Year #19
$14,449.66	$14,852.88	$15,267.36	$15,693.40	$16,131.34	$16,581.49	$17,044.21	$17,519.83	$18,008.73	$18,511.28	$19,027.84	$19,558.83
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$25,128.52	$25,829.75	$26,550.54	$27,291.45	$28,053.03	$28,835.86	$29,640.54	$30,467.68	$31,317.90	$32,191.84	$33,090.17	$34,013.57
$266.74	$274.19	$281.84	$289.70	$297.79	$306.10	$314.64	$323.42	$332.45	$341.72	$351.26	$361.06
$26,674.43	$27,418.79	$28,183.93	$28,970.41	$29,778.85	$30,609.84	$31,464.03	$32,342.05	$33,244.57	$34,172.28	$35,125.87	$36,106.08
$3,134.25	$3,221.71	$3,311.61	$3,404.02	$3,499.01	$3,596.66	$3,697.02	$3,800.19	$3,906.24	$4,015.24	$4,127.29	$4,242.46
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$8,218.36	$8,447.69	$8,683.43	$8,925.75	$9,174.82	$9,430.85	$9,694.03	$9,964.54	$10,242.61	$10,528.43	$10,822.23	$11,124.23
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$16,974.64	$17,448.32	$17,935.23	$18,435.72	$18,950.18	$19,478.99	$20,022.56	$20,581.30	$21,155.64	$21,745.99	$22,352.83	$22,976.60
$8,729.81	$8,973.42	$9,223.83	$9,481.23	$9,745.81	$10,017.77	$10,297.32	$10,584.67	$10,880.04	$11,183.65	$11,495.74	$11,816.53

$103,576.40	$106,466.75	$109,437.77	$112,491.68	$115,630.82	$118,857.56	$122,174.35	$125,583.69	$129,088.17	$132,690.44	$136,393.24	$140,199.36
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$103,576.40	$106,466.75	$109,437.77	$112,491.68	$115,630.82	$118,857.56	$122,174.35	$125,583.69	$129,088.17	$132,690.44	$136,393.24	$140,199.36
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$103,576.40	$106,466.75	$109,437.77	$112,491.68	$115,630.82	$118,857.56	$122,174.35	$125,583.69	$129,088.17	$132,690.44	$136,393.24	$140,199.36

Year #20	Year #21	Year #22	Year #23	Year #24	Year #25	Year #26	Year #27	Year #28	Year #29	Year #30
$20,104.63	$20,665.66	$21,242.34	$21,835.12	$22,444.44	$23,070.77	$23,714.57	$24,376.34	$25,056.57	$25,755.79	$26,474.52
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$34,962.73	$35,938.39	$36,941.27	$37,972.13	$39,031.76	$40,120.97	$41,240.56	$42,391.40	$43,574.36	$44,790.32	$46,040.22
$371.14	$381.49	$392.14	$403.08	$414.33	$425.89	$437.78	$449.99	$462.55	$475.46	$488.73
$37,113.64	$38,149.31	$39,213.89	$40,308.17	$41,433.00	$42,589.21	$43,777.68	$44,999.32	$46,255.05	$47,545.82	$48,872.61
$4,360.85	$4,482.54	$4,607.63	$4,736.21	$4,868.38	$5,004.23	$5,143.88	$5,287.42	$5,434.97	$5,586.63	$5,742.53
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$11,434.66	$11,753.75	$12,081.75	$12,418.90	$12,765.45	$13,121.68	$13,487.84	$13,864.23	$14,251.12	$14,648.80	$15,057.59
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$23,617.77	$24,276.84	$24,954.29	$25,650.66	$26,366.45	$27,102.22	$27,858.52	$28,635.93	$29,435.03	$30,256.43	$31,100.75
$12,146.28	$12,485.23	$12,833.64	$13,191.77	$13,559.89	$13,938.29	$14,327.24	$14,727.05	$15,138.02	$15,560.45	$15,994.67

$144,111.70	$148,133.21	$152,266.95	$156,516.04	$160,883.70	$165,373.25	$169,988.07	$174,731.68	$179,607.66	$184,619.71	$189,771.62
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$144,111.70	$148,133.21	$152,266.95	$156,516.04	$160,883.70	$165,373.25	$169,988.07	$174,731.68	$179,607.66	$184,619.71	$189,771.62
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
$144,111.70	$148,133.21	$152,266.95	$156,516.04	$160,883.70	$165,373.25	$169,988.07	$174,731.68	$179,607.66	$184,619.71	$189,771.62

Manchester Township Landfill

Civil Construction and Closure
Proposal and Schedule

November 15th, 2025

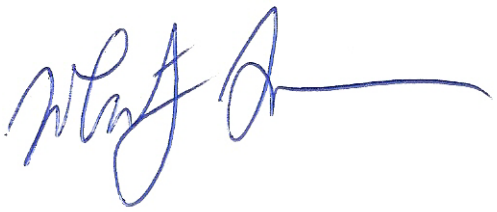
RE: Closure of the Manchester Landfill in preparation for the installation of a solar PV system

Attn: Daniel Serber, NextGrid

Please see the following proposal of work and takeoff amount based upon the documentation previously provided by NextGrid and the "LANDFILL CLOSURE DESIGN" plan set by Geosyntec Consultants dated 7/18/2025.

Please feel free to reach out with any questions regarding this proposal and we look forward to this project moving forward with our team of experts to avoid timely and costly issues during construction.

Sincerely,



Whitley Forman

Technical Director
Coastal Solar and Electric LLC
Cell 732-546-896

Manchester Township Landfill

Line #	Item	Quantity	Unit	Unit Cost	Extended Price
GENERAL CONDITIONS				SUB-TOTAL	$ 80,097.50
1	Mobilization	1	LS		
2	Site Survey, Layout & As-Built	30	DAYS		
EROSION & SEDIMENT CONTROL				SUB-TOTAL	$ 143,807.50
3	Silt Fence	8,000	LF		
4	Construction Entrance	1	EA		
5	Dust Suppression	1	LS		
6	Odor Control	1	LS		
7	Maintenance of Erosion Control	1	LS		
SITE DEMOLITION				SUB-TOTAL	$ 343,896.00
8	Tree Removal	16	AC		
9	Grubbing of Brush	26	AC		
10	Removal of Existing Salt Shed & Asphalt Pavement	1	LS		
11	Remove Existing Stockpile of Millings	350	CY		
12	Remove Existing Stockpile of Compost	500	CY		
13	Remove & Relocate Utility Pole	9	EA		
14	Remove & Store Misc. Concrete Blocks	5	EA		
15	Remove & Store Equipment & Materials	1	LS		
16	Remove & Store Existing Bollard for Reuse	23	EA		
17	Dewater Existing Stormwater Pond	1	LS		
EARTHWORK & GRADING				SUB-TOTAL	$ 2,362,855.55
18	Cut to FIll On-Site Waste (Includes Cover Soils)	112,500	CY		
19	Cut & Fill Sand Cap, 18" THK (Mined On-Site)	77,525	CY		
20	Cut & Fill Topsoil Cap, 6" THK (Mined On-Site)	25,840	CY		
21	Regrade Basins & Install Topsoil, 6" THK	495,150	SF		
22	Seeding of Disturbed Areas	45	AC		
23	Bin Block Retaining Wall	475	LF		
STONE AREAS				SUB-TOTAL	$ 802,884.00
24	Stone Access Road	20,260	SF		
25	Aggregate Final Cover System (2/7)	193,000	SF		
STORM BASIN FEATURES				SUB-TOTAL	$ 927,854.50
26	Riser Structure (12/8)	10	EA		
27	Sediment Forebay Spillway (11/8)	5,065	SF		
28	Infiltration Basin (23/10)	191,070	SF		
29	Basin Spillway (8/7)	1,425	SF		
30	Bioretention Cell (22/10)	17,155	SF		
31	Energy Dissipation Pad - Apron (7/7)	4,870	SF		

Coastal Solar and Electric LLC
NJ Master Electrical Contractor #34EB01860100
NJ HIC #13VH12673800
coastalsolarandelectric.com
1-908-349-0286
info@coastalsolarandelectric.com
Bradley Beach, NJ

SWALES & BERMS				SUB-TOTAL	$ 228,131.25
32	DA1A West Swale	523	LF		
33	DA1A East Swale	842	LF		
34	DA1A Central Swale A	327	LF		
35	DA1A Central Swale B	454	LF		
36	DA1B Swale	377	LF		
37	DA2A West Swale	231	LF		
38	DA2A East Swale	300	LF		
39	DA2B Road Swale	100	LF		
40	DA2B West Swale	568	LF		
41	DA2B East Swale	733	LF		
42	DA3 Swale	275	LF		
43	DA4 Culvert Crossing (4/7)	70	LF		
44	DA4 West Swale	316	LF		
45	DA4 Roadside Swale	300	LF		
46	Berm (18/9)	100	LF		
47	Stormwater Diversion Berm at Forebay Inlet (15/9)	50	LF		
48	Stormwater Diversion Berm w/ Riprap (10/8)	100	LF		
CONCRETE PADS				SUB-TOTAL	$ 73,600.00
49	36' x 20' Concrete Pad	2	EA		
GAS VENTS				SUB-TOTAL	$ 153,352.50
50	Induced Draft Gas Vent (14/8)	24	EA		
51	Passive Gas Vent (13/8)	7	EA		
FENCING & GATES				SUB-TOTAL	$ 472,736.25
52	Ballast Blocks for Fencing (19/9)	389	EA		
53	7' HIgh Barbed Wire Ballasted Chain Link Fencing (19/9)	3,110	LF		
54	Ballasted Chain Link Gates	1	EA		
55	Excavation & Backfill for Fence Grounding (20/9)	1,000	LF		
				Lump Sump Total	$5,589,215.05

Standard & Site Specific Clarifications & Exclusions

General

1. Scope of work is limited to items listed in the proposal.
2. If this proposal is accepted, it shall be added as an exhibit to the contract.
3. Proposal is based on Project documents titled: Proposed Subgrade Grading Plan for Manchester Township Landfill dated 7/18/2025 by Geosyntec Engineering.
4. Proposal excludes materials sales tax.
5. Coastal Solar and Electric (CSE) is responsible for “One-Call.”
6. The enclosed proposal is based on union rates and is valid for 30 days.
7. Daily work hours are Monday through Friday, 6:00am - 4:30pm. CSE reserves the right to alter the work schedule as needed.
8. All necessary permits, fees, bonds, etc. are to be obtained and secured by the owner representative.
9. Temporary utility services & hookups are excluded.
10. Portable restrooms and dumpsters are included in this proposal.
11. Site security, security lighting & security fencing are excluded from this proposal.

12. Site surveying & as-builts are included in this proposal. Pre-existing conditions survey to be completed by CSE. Surveys and as-builts to be completed by Local 825 IUOE surveyor. No provisions have been made for a PLS.
13. Engineering, quality control testing, geotechnical engineering, soil testing, and survey control are excluded from this proposal
14. Earthwork quantities are approximate and shall be verified prior to start of construction.
15. Subgrade tolerance shall be +/- 0.10'.
16. No import or export of material included. All material to remain on site and proposed material borrowed from site.
17. No provisions have been made for blasting, breaking, ripping, excavation or removal of rock encountered. All rock removal, if encountered, is excluded from this proposal and should be treated as an extra.
18. Undercutting or over-excavation below the proposed subgrade is excluded from this proposal.
19. Provisions for work in winter or inclement weather conditions including but not limited to snow, frost or mud removal and backfill is excluded. Frost shall be considered as frozen ground greater than 4" thick is excluded from this proposal. No snow plowing included.
20. Crews will have Hazwoper 40 training.
21. Dewatering that is included encompasses the use of sump pumps & temporary trench systems. Treatment, storage, testing and disposal of contaminated groundwater, if encountered, is excluded from this proposal.
22. Holding of utility poles during underground utility installation is not included in this proposal.
23. Odor control is limited to spraying on waste material, no air monitoring is included.
24. Disposal of material existing on site is excluded from this proposal.
25. Materials to be removed and/or relocated shall be stored onsite.

General Conditions

1. Pricing of all extra work ordered by owner and work other than specified within this contract to be agreed upon in advance.
2. Additional work shall be performed under the owner's general supervision. No extra work shall be performed unless authorized and signed for by the owner or owner's representative.
3. Payment for work performed shall constitute acceptance of that work performed.
4. All workmanship is guaranteed for one year from the date of installation.

Estimated Timeline and Schedule

Proposed Schedule

Activity	Working Days	Start Date	End Date
Initial Mobilization & Layout	5	3/2/2026	3/6/2026
Installation of Silt Sock & Entrance	10	3/4/2026	3/17/2026
Tree Clearing & Grubbing	15	3/9/2026	4/10/2026
Cut to Fill of Waste & Temp Cover	45	3/30/2026	5/29/2026
Installation of Sand Cap	35	5/18/2026	7/3/2026
Installation of Storm Basin Features	15	6/22/2026	7/13/2026
Installation of Swales and Berms	15	6/29/2026	7/20/2026
Installation of Topsoil Cap	20	7/6/2026	8/1/2026
Installation of Stone Areas	5	8/3/2026	8/10/2026
Installationg of Gas Vents	10	8/3/2026	8/17/2026
Seeding & Restoration of Basins	10	8/6/2026	8/20/2026
Demobilization	10	8/20/2026	8/31/2026

Range of Budget Accounts: 6-01-26-310-000-200 to 6-01-26-310-000-230
For Budget: %PY = ((Budgeted / (Appropriated + Transfers)) - 1) * 100

Description Budget Account Number	2021 Approp Actual	2022 Approp Actual	2023 Approp Actual	2024 Approp Actual	2025 Approp Actual	********** 2026 ********** Requested	 Admin. Recmnd	 Budgeted	 %PY
BUILDING & GROUNDS OE:									
6-01-26-310-000-200									
Bldg & Grds - Education & Seminars									
6-01-26-310-000-223	0.00	0.00	0.00	0.00	0.00	_____	_____	_____	0.00
	0.00	0.00	0.00	0.00	0.00				
Bldg & Grds - Maint & Repair									
6-01-26-310-000-225	0.00	38,000.00	0.00	0.00	23,000.00	_____	_____	_____	0.00
	36,424.80	50,688.47	58,499.26	14,644.44	34,358.08				
Transfers	0.00	20,000.00	0.00	0.00	0.00				
Bldg & Grds - Membership & Subscription									
6-01-26-310-000-226	0.00	0.00	0.00	0.00	0.00	_____	_____	_____	0.00
	0.00	0.00	0.00	0.00	0.00				
Bldg & Grds - Office Supplies									
6-01-26-310-000-227	0.00	1,500.00	0.00	0.00	500.00	_____	_____	_____	0.00
	560.34	1,537.43	4,994.75	1,239.60	0.00				
Bldg & Grds - Other Services									
6-01-26-310-000-228	0.00	25,000.00	0.00	0.00	30,000.00	_____	_____	_____	0.00
	20,316.19	45,076.25	19,117.55	23,577.75	39,589.58				
Bldg & Grds - LSRP Remediation Costs									
6-01-26-310-000-229	0.00	0.00	0.00	0.00	60,000.00	60,000.00	60,000.00	_____	0.00
	0.00	0.00	0.00	0.00	43,000.00				
Note: Per DEP Requirements									
Bldg & Grds - Landfill Remediation Costs									
6-01-26-310-000-230	0.00	0.00	0.00	0.00	0.00	86,000.00	86,000.00	_____	0.00
	0.00	0.00	0.00	0.00	0.00				
Note: Per DEP Requirements; 2.8% escalator per year for each subsequent year.									
Control Total	0.00	64,500.00	0.00	0.00	113,500.00	146,000.00	146,000.00	0.00	0.00
	57,301.33	97,302.15	82,611.56	39,461.79	116,947.66				