COMBINED REMEDIAL INVESTIGATION/FINAL ACT 2 REPORT

RIGHT-OF-WAY-3 RELEASE ON 6/22/23 AREA FORMER PHILADELPHIA ENERGY SOLUTIONS REFINERY 3144 West Passyunk Avenue, Philadelphia, PA Philadelphia, Philadelphia County

Prepared for:

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1.0 INTRODUCTION

Langan Engineering and Environmental Services, LLC. (Langan) has prepared this combined Pennsylvania Land Recycling Program Remedial Investigation Report and Final Report (RIR/Final Report) on behalf of the site owner, Bellwether District Holdings, LLC (BDH) formerly known as Philadelphia Energy Solutions Refining and Marketing LLC for a specific release that occurred on June 22, 2023. The release affected a distinct localized area in Right-of-Way (ROW) 3 ("Act 2 Site") of the former Philadelphia Energy Solutions Refinery (the Facility) located at 3144 West Passyunk Avenue in Philadelphia, Pennsylvania (Figure 1). BDH is conducting the remediation of the Act 2 Site impacted by this one-time release that occurred on June 22, 2023.

Refinery operations at the Facility ceased in 2019. At the time of this reporting, portions of the Facility are undergoing site preparation for redevelopment, including removal of remnant subsurface piping associated with former refinery operations. Also, ongoing remediation activities are being conducted at the Facility under the Land Recycling and Environmental Standards Act, the Act of May 19, 1995, P.L. 4, No. 2 (Act 2) by both BDH and Evergreen Resources Group, LLC (Evergreen)¹ in accordance with the 2012 Buyer-Seller Agreement and the 2020 First Amendment to that Agreement.

During site preparation activities for redevelopment and removal of a subsurface pipe on June 22, 2023, a one-time release of approximately 30-40 gallons of petroleum liquids locally affected soils. The release was verbally reported to the Pennsylvania Department of Environmental Protection (PADEP) on June 22, 2023, by the site owner, BDH. Based on a review of past operations in the area, BDH concluded that the piping which was the source of the release was not related to a regulated storage tank system. No waterways were affected by the release.

Following the excavation of visually impacted soils at the Act 2 Site, post-excavation soil samples were collected on July 13, 2023, and August 14, 2023. Locations for sampling within the limits of the excavated area were determined using systematic random sampling as required by 25 Pennsylvania Code Chapter 250 Administration of the Land Recycling Program ("Chapter 250") § 205.703(c). Results for each of the post excavation soil samples collected at each systematic random sampling location were below Non-Residential Statewide Health Standards (SWHS) for

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¹ Evergreen Resources Management Operations, a series of Evergreen Resources Group, LLC, is managing the legacy remedial work for Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC ("Evergreen") and Sunoco (R&M), LLC. For clarity, Sunoco, Inc. n/k/a ETC Sunoco Holdings LLC, Sunoco, Inc. (R&M) f/k/a Sunoco (R&M), LLC n/k/a Energy Transfer (R&M), LLC effective 4/19/2021 and Evergreen shall be referred to collectively as "Evergreen" in this Report.

the petroleum hydrocarbon constituents that were analyzed. The post-excavation soil sample analytical results demonstrate attainment of the non-residential SWHS for soil and confirm that the effects of the release did not extend to the groundwater table; therefore, no further action is warranted for groundwater relating to the June 22, 2023, release.

Accordingly, the remediation and subsequent reporting was performed following the procedures and requirements of Act 2. A Notice of Intent to Remediate (NIR) was published in the Philadelphia Inquirer on April 12, 2024, and submitted to the PADEP on April 17, 2024. Notification of Filing of a Final Report was submitted to the PADEP on November 18, 2024, and published in the Philadelphia Inquirer on November 14, 2024. Documentation for the NIR and required notices is included in Appendix A.

1.1 Objectives

The purpose of this report is to document the demonstration of attainment of the Non-Residential SWHS and to obtain a release of environmental liability from the PADEP under the provisions of Pennsylvania Act 2 and the Land Recycling Program. The interim and final response actions taken to address the release were successful at remediating the soil impacts related to the June 22, 2023, release. Considering the analytical results for remedial investigation and post excavation soil samples, attainment of the Non-Residential SWHS for soil has been demonstrated. As presented in greater detail herein, because of the timeliness of the response and remediation of this localized, one-time release and the soil sampling that reveals a separation distance between soil that was removed, and the underlying groundwater table, groundwater is not a media of concern for this release. The data and conclusions supporting the final Act 2 demonstration of attainment of SWHS are further detailed throughout this report.

1.2 Report Organization

This Combined Remedial Investigation/ Final Report is organized into the following major sections:

Section 1.0 - Introduction

Section 2.0 - Site Description

Section 3.0 – Overview of the Release and Investigation/Response Actions

Section 4.0 – Post Excavation Soil Sampling Attainment Sampling

Section 5.0 – Waste Disposal Information

Section 6.0 - Conceptual Site Model

Section 7.0 - Exposure Pathway Assessment and Receptor Evaluation

Section 8.0 – Demonstration of Attainment

Section 9.0 – Public Notification

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2.0 SITE DESCRIPTION

This section describes the Act 2 Site and vicinity physical features and provides site ownership and operational information. A Site Location Map based on the United States Geological Survey Philadelphia Quadrangle (April 2023) is included as Figure 1, and an aerial Site Plan based on May 14, 2023, Nearmap imagery is included as Figure 2.

2.1 Location of Act 2 Site

The Act 2 Site is located approximately 0.45 miles south of Frontage Road. The four corners of the remediation area are located at the following geographic coordinates:

- Northeast corner N 39°54′49.356″ latitude and W 75°11′51.261″ longitude.
- Northwest corner N 39°54'49.378" latitude and W 75°11'51.464" longitude.
- Southeast corner N 39°54′49.053″ latitude and W 75°11′51.316″ longitude.
- Southwest corner N 39°54′49.075″ latitude and W 75°11′51.520″ longitude.

2.2 Past Operations

The Facility was first used for petroleum related operations as far back as 1866. The Facility produced mainly transportation fuels such as gasoline and diesel fuel, as well as heating fuels, until operations ceased in June 2019. The Act 2 Site is in the former 867 Process Unit area and is also located within the portion of the Facility designated by Evergreen as Area of Interest 2 (AOI 2), known as the Point Breeze Processing Area. AOI 2 was used for petroleum product processing, storage, and contained active docks for loading and offloading refined petroleum products. AOI 2 encompasses approximately 111 acres.

Groundwater and soil contamination related to some of the past Facility operations are being addressed separately under the larger Facility-wide efforts being performed by Evergreen.

2.3 Physical Setting

This section details the physical setting and hydrogeological characteristics of the portion of Facility near the Act 2 Site.

2.3.1 Topography and Drainage

Ground surface elevation at the Act 2 Site at the time of the release was flat due to the broader site wide earthwork. The approximate ground surface elevation prior to construction and the release, ranged from a high of 23 feet above mean sea level (amsl) at the northeast corner to a low of 18 feet amsl at the southern end. This topography at the time was indicative of a soil mound or berm that had been present in this area prior to construction and the release, related to previous Site operations. The closest surface water feature is the Schuylkill River, which is located approximately 1650 feet west of the Act 2 Site. The Schuylkill River flows north to south.

Based on review of historical maps and publicly available reporting through the Evergreen website², much of the land area occupied by the present-day Facility was formerly tidal marsh and lowlands of the Schuylkill River.

2.3.2 Site Geology and Hydrogeology

Langan reviewed previous Facility-specific data and state and federal databases to describe the geologic conditions at the Facility and in the vicinity of the Act 2 Site. Facility-specific geology, as reported in Evergreen's July 2017 Remedial Investigation Report for AOI 2, consists of several units from deep to shallow: Wissahickon formation (bedrock), Farrington Sand unit, Middle/Lower Clay, Trenton Gravel, and recent anthropogenic fill and alluvium. The Middle/Lower Clay separates the shallow and deeper aquifers. Historical investigations conducted at the Facility have primarily focused on two saturated zones, including shallow groundwater (occurring within the Trenton Gravel/alluvium unit) and deep groundwater (occurring within the Farrington Sand unit). The Farrington Sand unit consists of green, brown, orange and/or red, fine gravel and coarse sand that grades upward into medium to fine sands and contains thin layers of silts and clays. The Middle/Lower Clay ranges in thickness from 5 to 65 feet and the Farrington Sand ranges in thickness from 10 to 70 feet across the Facility.

² Evergreen Resources Group, LLC (Evergreen). (2024). *Philadelphia Refinery Legacy Remediation.* https://phillyrefinerycleanup.info/.

Shallow groundwater in the vicinity of the Act 2 Site naturally flows to the southwest towards the Schuylkill River, but local groundwater flow conditions vary across the Facility and are influenced by active fluids recovery systems, bulkheads along the Schuylkill River, and tidal influences of the Schuylkill River marshes and creeks.

Based on a review of gauging data provided in the July 2017 RIR for AOI 2, monitoring wells near the Act 2 Site reveal an average groundwater elevation of 1.44 feet (ft). Wells in the area were last gauged twice in 2016 including monitoring wells S-311, S-360, S-361, S-362, and S-363. The location of these wells is shown on Figures 7 and 8 in the July 2017 RIR for AOI 2. A copy of Figures 7 and 8 are included in Appendix B. In the July 27, 2023, Groundwater Remediation Status Report by Evergreen, a water table groundwater contour map was included as Figure 4 of the Status Report. The water table groundwater contours showed groundwater elevations within the approximate area of the release between 1 and 0 feet. Groundwater elevations for wells closer to the immediate area of the release were not included in the groundwater elevations depicted on Figure 4 of the Status Report. For completeness, a copy of Figure 4 from the Status Report is included in Appendix B.

3.0 OVERVIEW OF THE RELEASE AND INVESTIGATION/RESPONSE ACTIONS

On June 22, 2023, Langan was on site to observe subsurface pipe removal and demolition activities on BDH's behalf. Accordingly, Langan was on site as the release occurred and was able to promptly observe conditions. The area of the release is shown on Figure 2. A photo log of observed conditions at the Act 2 Site and the associated response actions is included in Appendix C.

During pipe removal, while the pipe was still partially underground, approximately 9 gallons of a water and petroleum product mixture was released into the excavated area below the pipe through a defect in the pipe. The released liquids were visibly observed to be locally contained at the piping defect area within the excavation below the pipe. Based on field observations, Langan estimated the 9 gallons of liquid mixture to be comprised of approximately 8 gallons of water and 1 gallon of petroleum product.

Following the release, Environmental Maintenance Company (EMC), a subcontractor for James D. Morrissey (JDM), the company contracted for removing the pipe and its contents, performed immediate response actions which included the removal of pooled liquids within the area via vacuum truck and placing oil absorbent pads in the area. After the liquid was removed, EMC directed an operator to remove the remaining pipe within the vicinity of the work area to determine the origin of the release. As the operator uncovered more piping to the north, approximately 30 to 40 more gallons (in addition to the approximately 9 gallons originally released) of a water and petroleum product mixture was released in the same area and immediately vacuumed from the localized area of the release. EMC was able to determine the origin of the release as a 4-inch oval-shaped hole on the underside of the pipe near the elbow bend of the pipe. Photographs of the release and the immediate response actions taken are included in Appendix C.

In summary, a total of approximately 40-50 gallons of petroleum product and other liquids were estimated to have been released in the exaction area during these events on June 22, 2023.

The pipe in the release area was removed and staged in the Lot 9 scrap metal staging area. Before removing additional piping in this area, precautions were taken such as pumping residual liquids from the pipes and placing poly sheeting underneath them before removal. The liquids removed from the release area were contained in frac tanks on site. Details on the disposal of the contained liquid in the frac tanks on site is included in Section 5.0.

Impacted soil from the June 22, 2023, release area was excavated on June 22, July 11, and July 13, 2023. Langan oversaw the excavation of impacted soils performed by JDM. Langan guided JDM on the extent of the excavation based on field observations (odor or staining) and field screening of soils for volatile organic compounds (VOCs) using a photoionization detector (PID). A total of 165 cubic yards (CY) of impacted soils were removed from the release area. The excavated soil was staged on and covered by plastic sheeting in the Temporary Stockpile Staging Area (TSSA) in Lot 9. The location of the TSSA is shown on Figure 2. The impacted soil that was staged in the TSSA was transported off-site for disposal on March 19 and 20, 2024. Details on the disposal of the impacted soil staged in the TSSA is included in Section 5.0.

Post-excavation soil sampling was conducted on July 14 and August 15, 2023, by Langan following the PADEP Systematic Random Sampling Workbook guidance in accordance with 25 Pa. Code § 250.707 as described in Section 4.0. After evaluating post excavation soil sample

results in support of a final demonstration of attainment of Act 2 SWHS (discussed in Section 7.0), the excavation was backfilled with soil sourced from Lot 11 (at the Facility) that was eligible for reuse as described in the *June 2020 Soil Management Plan* prepared by Terraphase Engineering Inc. for BDH. The SMP was filed with the PADEP in 2020 and is established as the protocol for soil reuse during redevelopment activities at the site. The soil type used as backfill was Category A described as soil with concentrations of target analytes that are below non-residential soil direct contact and soil-to groundwater Medium-Specific Concentrations (MSCs). A copy of the Soil Management Plan is included as Appendix D.

4.0 POST EXCAVATION ATTAINMENT SAMPLING

Langan sampled soil at the excavation limits in July and August 2023 to demonstrate attainment of non-residential SWHS at the Act 2 Site. These attainment sampling activities were completed in accordance with Act 2 and the Land Recycling Program Technical Guidance Manual, dated January 2019, as amended March 26, 2021 (TGM). The ensuing sections summarize the selection of the appropriate remediation standards, the attainment sampling procedures, analytical results and associated quality assurance/quality control (QA/QC) measures.

4.1 Selection of Remediation Standards

Soil analytical results from samples collected on July 14 and August 15, 2023, were compared to the current PADEP non-residential SWHS. In accordance with the methodology described in Chapter 250 §305 for soil, Langan selected the appropriate MSC for each petroleum compound that was analyzed. As a part of the larger, ongoing Act 2 remediation at the Facility, Evergreen, the United States Environmental Protection Agency (USEPA) and the PADEP have developed a specific target list of regulated substances that will be considered during remedial decision-making. A copy of the Philadelphia Refinery Target Compound List and Associated Act 2 Soil Cleanup Standards is included in Appendix E. The soil analytical results discussed in this report were compared to the following:

- PADEP non-residential direct contact (0-2 feet below ground surface [ft bgs]) MSCs as published in the second and third MSC column of Chapter 250, Appendix A, Tables 3a (organics) and 4a (inorganics).
- PADEP non-residential direct contact (2-15 ft bgs) MSCs as published in the second and third MSC column of Chapter 250, Appendix A, Tables 3a (organics) and 4a (inorganics).

- PADEP non-residential Soil-to-Groundwater MSCs for a Used Aquifer (Total Dissolved Solids (TDS) < 2,500 milligrams per liter [mg/L]), which is the higher of the 100x Groundwater and Generic Soil-to-Groundwater MSCs as published in the third and fourth MSC columns of Chapter 250, Appendix A, Tables 3b (organics) and 4b (inorganics).
- PADEP non-residential Soil Statewide Health Standard vapor intrusion screening values.

As an initial screening, soil analytical results were compared to both the direct contact and soil-to-groundwater MSCs for soils. Soil samples were collected above 15 ft bgs so both direct contact and soil-to-groundwater MSCs were initially considered as applicable remediation standards. After the initial screening, the more stringent (lower value) of the direct contact and soil-to-groundwater MSCs were selected as the appropriate "non-residential SWHS" (SWHS MSC) comparison criterion for each petroleum compound analyzed. Table 1 provides a comparison of the screening value options and the selected SWHS values that are further detailed in Table 2. Soil sample analytical results for demonstrating attainment of the selected non-residential SWHS are discussed in the next section.

4.2 Attainment Sampling

On July 14, 2023, fourteen soil samples were collected from the Act 2 Site excavation. Sample locations were determined using the PADEP Systematic Random Sampling Workbook in accordance with 25 Pa. Code § 250.707. The Systematic Random Sampling Workbook uses a triangular systematic random sampling approach that utilizes a grid sampling design with a random starting point to provide better coverage of the soil area than simple random sampling. The spreadsheet was designed for a 3-dimensional feature but because the excavation is considered a 2-dimensional sampling scenario, multiple iterations of the Systematic Random Sampling Workbook were generated to accommodate for the sidewalls, base, and dimensions of the excavation. The depths of the excavation were based on visible impacts observed and extended to a maximum depth of 7 ft bgs. The post-excavation sample depths ranged between 1.5 ft bgs to 7 ft bgs. The final iteration of the Systematic Random Sampling Workbook and sample locations are included in Appendix F.

Fourteen soil samples collected on July 14, 2023, were analyzed for the Philadelphia Refinery Target Compound List of select volatile organic compounds (VOCs) by USEPA Method 8260D, select semi-VOCs (SVOCs) by USEPA 8270E, and lead by USEPA Method 3050B by Alpha Analytical, Massachusetts laboratory (PADEP laboratory certification number 68-03671). A copy of the Philadelphia Refinery Target Compound List in included as Table 1 in Appendix E.

On August 15, 2023, fourteen soil samples were again collected from the same locations previously sampled on July 14, 2023, to re-analyze them for 1,2-Dibromoethane (EDB) because of elevated method detection limits (MDL) for that constituent in the initial fourteen samples collected on July 14, 2023 (further detailed in Section 4.3 below). Before collecting the samples from the pre-determined locations on August 15, 2023, the top six inches of soil cover was removed from the four sides and the bottom of the excavation, where applicable, to re-collect representative soil samples that had not been directly exposed to the atmosphere since the prior samples were collected in July. Due to on-site conditions, sandy soil and saturation, the sidewall samples were accessed with a hand auger and bottom samples were accessed using an excavator bucket. Slight variations in sample depths were caused by variable access conditions. Sample locations were biased towards elevated PID readings. The July 14, 2023, sample and August 15, 2023, re-sample locations are depicted on Figure 3 and depths are detailed in Table 3. Samples re-collected on August 15, 2023, were re-analyzed for EDB to achieve desired detection limits via USEPA Method SW846 8011 by Eurofins Lancaster Laboratories Environment Testing, LLC, Pennsylvania laboratory (PADEP laboratory certification number 019-006).

Duplicate and field blank samples were collected during the attainment sampling. Quality assurance/quality control measures are discussed in Section 4.4 below.

4.3 Attainment Sampling Results

The soil analytical results were screened against the applicable non-residential MSCs and Non-residential SWHS Vapor Intrusion Screening Values (see Section 4.4). The soil sample analytical results are summarized in Table 2 and Table 4. A summary of the analytical results findings is provided below:

- None of the VOCs from the Philadelphia Refinery Target Compound List were detected at concentrations greater than the non-residential MSCs.
 - For certain samples (10 out of the 14 samples initially analyzed, including the duplicate) collected on July 14, 2023, the reported MDL for EDB was above the non-residential MSC. On August 15, 2023, 14 samples were recollected, and re-analyzed for EDB to achieve desired MDLs and analytical results were all below the non-residential MSC.
- None of the SVOCs from the Philadelphia Refinery Target Compound List were detected at concentrations greater than the non-residential MSCs.

• Lead was not detected at concentrations greater than the non-residential MSCs.

4.4 Post-Excavation Soil Sample Vapor Intrusion Evaluation

The soil analytical results were screened against the applicable PADEP Act 2 Non-residential SWHS Vapor Intrusion Screening Values for soil. The soil sample analytical results are compared to VI screening values are summarized in Table 4. A summary of the findings is provided below:

- Benzene was detected above the SWHS Vapor Intrusion Screening Value of 0.13 mg/kg in the following samples collected on July 14, 2023:
 - PEB-C_4.5-5.0 at 0.22 mg/kg
 - DUP-1 (parent sample PEB-D_4.5-5.0) at 0.3 mg/kg
 - PEB- H_4.5-5.0 at 0.18 mg/kg
 - PEB-I_4.5-5.0 at 0.21 mg/kg
 - PEB-J_6.0-6.5 at 0.19 mg/kg.

4.5 Quality Assurance and Quality Control

Quality assurance/quality control (QA/QC) measures were taken, and samples were collected during the characterization and response action activities to assure data of sufficient quality and usability. Quality assurance/quality control measures included equipment decontamination and calibration, sample preservation, chain of custody documentation, and data usability review and assessment. The QA/QC analytical measures included the collection and analysis of duplicate samples and field blanks:

- Field duplicate samples were collected at the same time as the original field sample at a
 rate of at least 1 per 20 field samples for soil. The results of the duplicate samples are
 summarized in Table 2. Duplicate results were similar to the parent sample results,
 indicating good laboratory performance.
- Field blank samples were collected during soil sampling events by pouring laboratory-provided deionized water over a decontaminated sampling apparatus directly into the appropriate laboratory-supplied bottles. Field blank samples were collected at a rate of at least 1 per 20 field samples. The results of the field blank samples are summarized in Table 2. Field blanks were non-detect for the compounds included in the Philadelphia Refinery Target Compound List.

4.5.1 Equipment Decontamination and Calibration

The equipment used to collect field measurements, such as the PIDs, were calibrated in the field before use each day following the manufacturer's instructions. All non-dedicated sampling equipment was decontaminated during sampling prior to and after its use to prevent potential for cross-contamination. The sampling equipment utilized for sample collection included stainless steel hand trowels, and stainless-steel hand augers. Equipment was decontaminated between use and at the start of each day using a three-step wash. The decontamination procedure included scrubbing the equipment vigorously with a solution of laboratory-grade detergent and tap water, then rinsing the equipment with tap water followed by a final deionized water rinse.

4.5.2 Laboratory Quality Assurance/Quality Control

The analytical laboratory furnished complete written reports for all soil analytical results to document quality control. Analyses were performed using USEPA or PADEP-approved methodologies. Laboratory data qualifications are summarized in the conformance summaries included with the laboratory deliverable packages, which are provided in Appendix E. Specific laboratory analytical qualifiers are included in the data tables next to the respective sample results. Laboratory analytical data have been summarized and are presented in Table 2 and Table 4.

4.5.3 Documentation

Chain-of-custody protocol was maintained throughout the sampling program. A chain-of-custody form accompanied all samples from the field to the laboratory. The chain-of-custody also documented the specific analytical methods and reporting for each sample. Copies of the chains-of-custody are included with the laboratory analytical data packages provided in Appendix E.

4.5.4 Data Usability Assessment

A Data Usability Assessment (DUA) was completed by Langan's internal Data Validation team and as guided by 25 Pa. Code § 250.701. The data for both the July 14, 2023, and the August 15, 2023, sampling is considered of sufficient quality and usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%. The required spreadsheets and memorandum detailing the validation

outcome for the DUA are included in Appendix E.

5.0 WASTE DISPOSAL INFORMATION

Following the release, the water and petroleum product mixture were removed from the release area and contained in frac tanks on site. The water was pumped into an assigned water tank, and was treated via the on-site Point Breeze wastewater treatment plant (PB WWTP) system on December 15, 2023. The petroleum product was disposed of by VLS Environmental Solutions in Lancaster, Pennsylvania on April 18 and 19, 2024 and by Separation and Recovery Systems in West Deptford, New Jersey on May 1, 2024. Copies of the associated manifests and Bill of Ladings are included in Appendix G.

Additionally, the excavated soil from the release area was staged on and covered by plastic sheeting in the TSSA in Lot 9. The location of the TSSA is shown on Figure 2. The impacted soil that was staged in the TSSA was transported off-site for disposal on March 19 and 20, 2024. The excavated soils from the release area were included in the off-site transport of a larger volume of various impacted soil staged at the TSSA from the separate construction redevelopment project. Soil was transported to Clean Earth of New Castle in New Castle, Delaware. A copy of the TSSA Transportation and Disposal Tracking Sheet, the signed manifest and the Clean Earth Profile Detail Report are included in Appendix G.

6.0 CONCEPTUAL SITE MODEL

The Conceptual Site Model provides physical site conditions (e.g., geology and hydrogeology), the nature and extent of the release and effects, and consideration of sources and potential exposure pathways. The physical setting of the Facility is described in more detail in Section 2.3 above.

6.1 Release, Migration Path, and Nature and Extent of Impacts

The release involved approximately 40-50 gallons of a water and petroleum product mixture from a defect discovered on the underside of underground piping associated with former refinery operations. The pipe defect was identified during pipe removal activities at the Facility. The extent of the release was limited and restricted by topography and extents of excavation activities associated with the release area. The Act 2 Site is shown on Figure 3.

Immediate response actions were taken following the discovery of the release to effectively remove the visible extents of the soils affected and included the removal of pooled petroleum products and other liquids within the area via vacuum truck. After the petroleum products and other liquids were removed, the remaining pipe, determined to be the origin of the release, was removed along with surrounding affected soils. The post excavation soil sample results document the effectiveness of the cleanup actions and demonstrate that the impacts did not extent to groundwater, and support attainment of the non-residential MSCs for soils affected by the release.

7.0 EXPOSURE PATHWAY ASSESSMENT AND RECEPTOR EVALUATION

The following discussion provides a summary of an exposure pathway assessment performed to determine if complete exposure pathways may exist between known Act 2 Site constituents of concern and identified potential receptors.

7.1 Potential Human Receptors and Exposure Pathways

Response actions and cleanup via excavation and removal of soil impacts was completed and supports the demonstration of attainment of non-residential soil MSCs. Potential human health exposures related to the Act 2 Site release area are not a concern.

7.2 Potential Ecological Receptors and Exposure Pathways

Langan completed an evaluation of potential ecological receptors in accordance with 25 Pa. Code § 250.311. As a first step, Langan determined whether potential ecological receptors are present at the Act 2 Site. The PADEP defines applicable ecological receptors as:

a) Individuals of threatened or endangered species as designated by the United States Fish and Wildlife Service (US FWS) under the Endangered Species Act (16 U.S.C.A. § § 1531—1544).

Langan completed a search of the Pennsylvania Natural Heritage Program (PNHP) inventory of threatened and endangered species and species of special concern which involves records via the Pennsylvania Natural Diversity Inventory (PNDI) database of rare and threatened species in Pennsylvania. PNHP compiles records retained by three state governmental agencies, including the Pennsylvania Game Commission (PGC), the

Pennsylvania Department of Conservation and Natural Resources (DCNR), and the Pennsylvania Fish and Boat Commission (PFBC). Based on the PHNP map, no PGC, PFBC or DCNR threatened or endangered species or species of special concern are mapped on or adjacent to the Act 2 Site.

b) Exceptional value wetlands as defined in § 105.17 (relating to wetlands).

According to the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory mapping application, wetlands are not located at the Act 2 Site release area. The USFWS National Wetlands Inventory map is included as part of Appendix H. Wetlands are not potentially affected by the Act 2 Site.

c) Habitats of concern.

The PNHP map also includes Natural Heritage Areas, which are core habitats and supporting landscapes for species of special concern. Natural Heritage Areas are not mapped on or adjacent to the Act 2 Site. According to the DCNR Conservation Planning Report, which is included as part of Appendix H, supporting landscape areas were not identified on the Act 2 Site. No additional conservation planning areas of interest were identified.

Copies of the USFWS national wetlands map, the PNHP map and the DCNR Conservation Planning Report are included as Appendix H.

Further ecological evaluation is not warranted for the Act 2 Site pursuant to Title 25, Chapter 250, Section 311(b) because the following information supports a determination that no additional evaluation is required:

- The area of impacted soil is less than two acres and the documented effects of the release and extents had not sufficiently migrated to affect surface water, sediments, and/or groundwater.
- The release area of impacted soil currently does not have features such as buildings, parking lots or graveled paved areas, and unpaved roadways. The future design plans for the larger Facility will feature these design elements in this area, which would eliminate potential specific exposure pathways, such as soil exposures (250.311.b.3).

8.0 DEMONSTRATION OF ATTAINMENT

As presented in Section 4.2, the post-excavation sample analytical results for samples collected after immediate response and excavation activities in the Act 2 Site on June 22, 2023, demonstrate attainment of non-residential SWHS (Soil MSCs) for Philadelphia Refinery Target Compound List of constituents analyzed in post excavation soil samples. Post-excavation soil samples were collected at locations generated using systematic random sampling methods consistent with 25 Pennsylvania Code § 205.703. The samples are considered systematically random and representative both horizontally and vertically of the excavated area. The maximum excavation depth was between 4 and 6 ft bgs, and unsaturated, post-excavation soil samples were collected at depths ranging between 1.5 ft bgs and 7 ft bgs. The post-excavation soil sample analytical results not only demonstrate attainment of the non-residential SWHS but also confirm that the remediated Act 2 Site soils did not extend to the groundwater table which is documented to be encountered at elevations of about 1.44 ft in the vicinity of the release area.

As an institutional control, prior to their construction and occupancy, on-facility buildings which could be occupied in the future will be subject to vapor intrusion investigation and evaluation to determine if conditions (i.e., volatilization of COPC from soil, groundwater, and/or light non-aqueous phase liquid) could pose an unacceptable risk to occupants. As needed, vapor mitigation systems will be incorporated into the design and construction of such buildings as engineering controls where potentially unacceptable vapor intrusion risks are identified. These activities and use limitations will eliminate the potential for future unacceptable exposures to COPC at the Site via vapor intrusion.

Langan for BDH hereby submits this Combined Remedial Investigation Report/Final Act 2 Report for Soil to the Pennsylvania Department of Environmental Protection, Southeast Regional Office, for their review and approval in demonstrating attainment of the non-residential SWHS under the Land Recycling and Environmental Remediation Standards Act. This submittal and request for approval is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. #4, No. 2.

9.0 PUBLIC NOTICE

The public was notified of the submission of a NIR by publication of a notice in the April 12, 2024, issue of the Philadelphia Inquirer. The public was notified of the Final Report submission by

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publication of a notice in the November 14, 2024, issue of the Philadelphia Inquirer. The City of Philadelphia was notified of BDH's submission of a NIR by certified letter dated and sent on April 17, 2024, and the submission of the RI/Final Report by certified letter dated and sent November 12, 2024. A copy of the letter sent to the city and the proof of publication are included in Appendix A, with the full NIR submission and the Final Report publication.

10.0 SIGNATURES

By affixing my seal to this letter, I am certifying that the information within the report is true and correct. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.

) " ()

Jeffrey A. Smith, P.G. Senior Associate Pennsylvania P.G. No. PG002755G

10.0 SIGNATURES

By affixing my seal to this letter, I am certifying that the information within the report is true and correct. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.



Jeffrey A. Smith, P.G. Senior Associate Pennsylvania P.G. No. PG002755G

11.0 REFERENCES

Pennsylvania Department of Conservation and Natural Resources (PA DCNR). Bureau of Topographic and Geologic Survey. Pennsylvania Groundwater Information System. http://www.dcnr.pa.gov/Conservation/Water/Groundwater/PAGroundwaterInformationSystem/ Pages/default.aspx.

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PADEP. eMapPA. http://www.depgis.state.pa.us/emappa/.

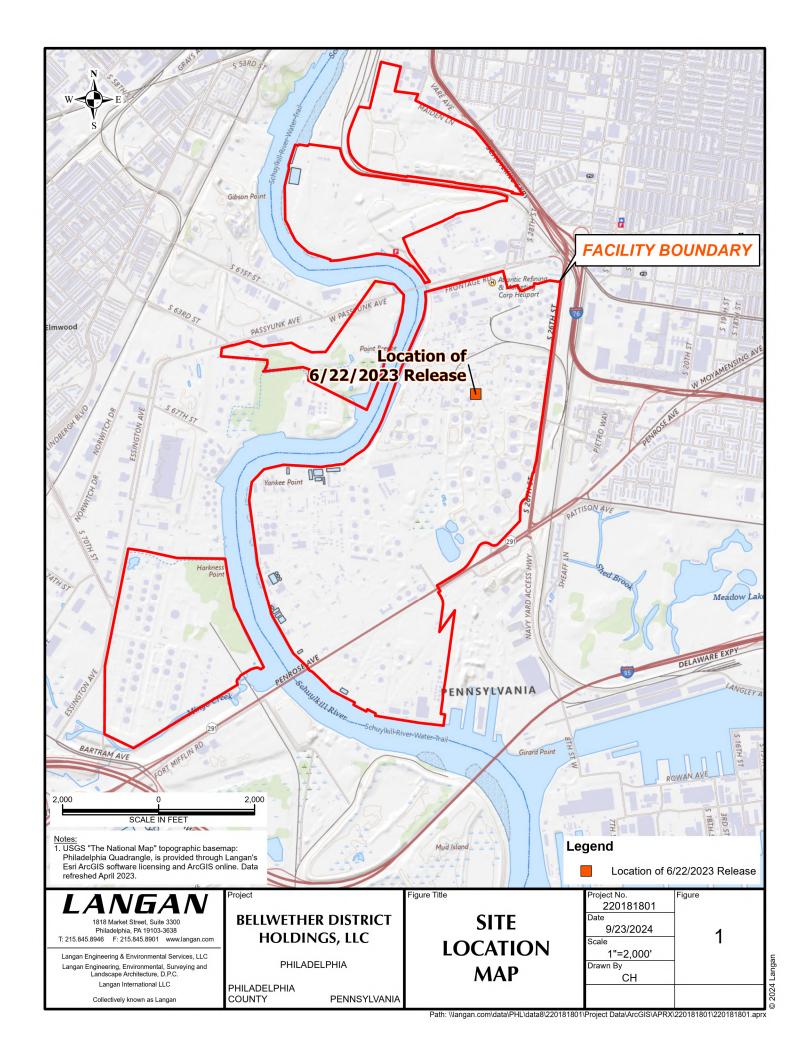
Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2). 2001. 25 Pa. Code Chapter 250.

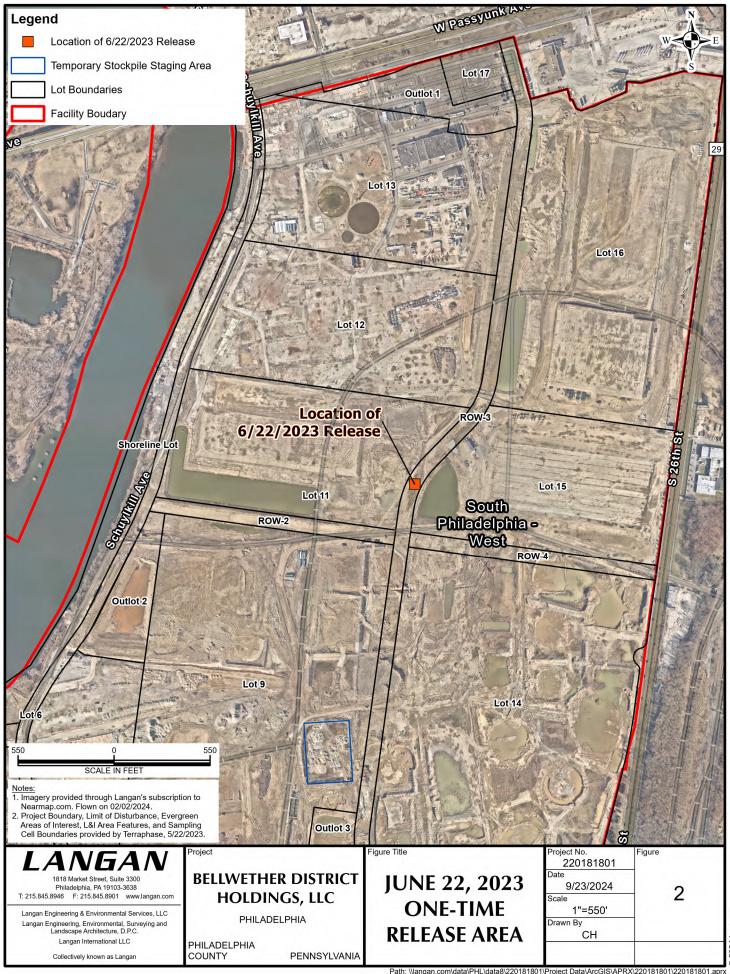
PNHP Pennsylvania Conservation Explorer – Conservation Planning and PNDI Environmental Review, https://conservationexplorer.dcnr.pa.gov/.

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Langan Engineering and Environmental Services, Inc. Remedial Investigation Report, Area of Interest 2. Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC. July 20, 2017.





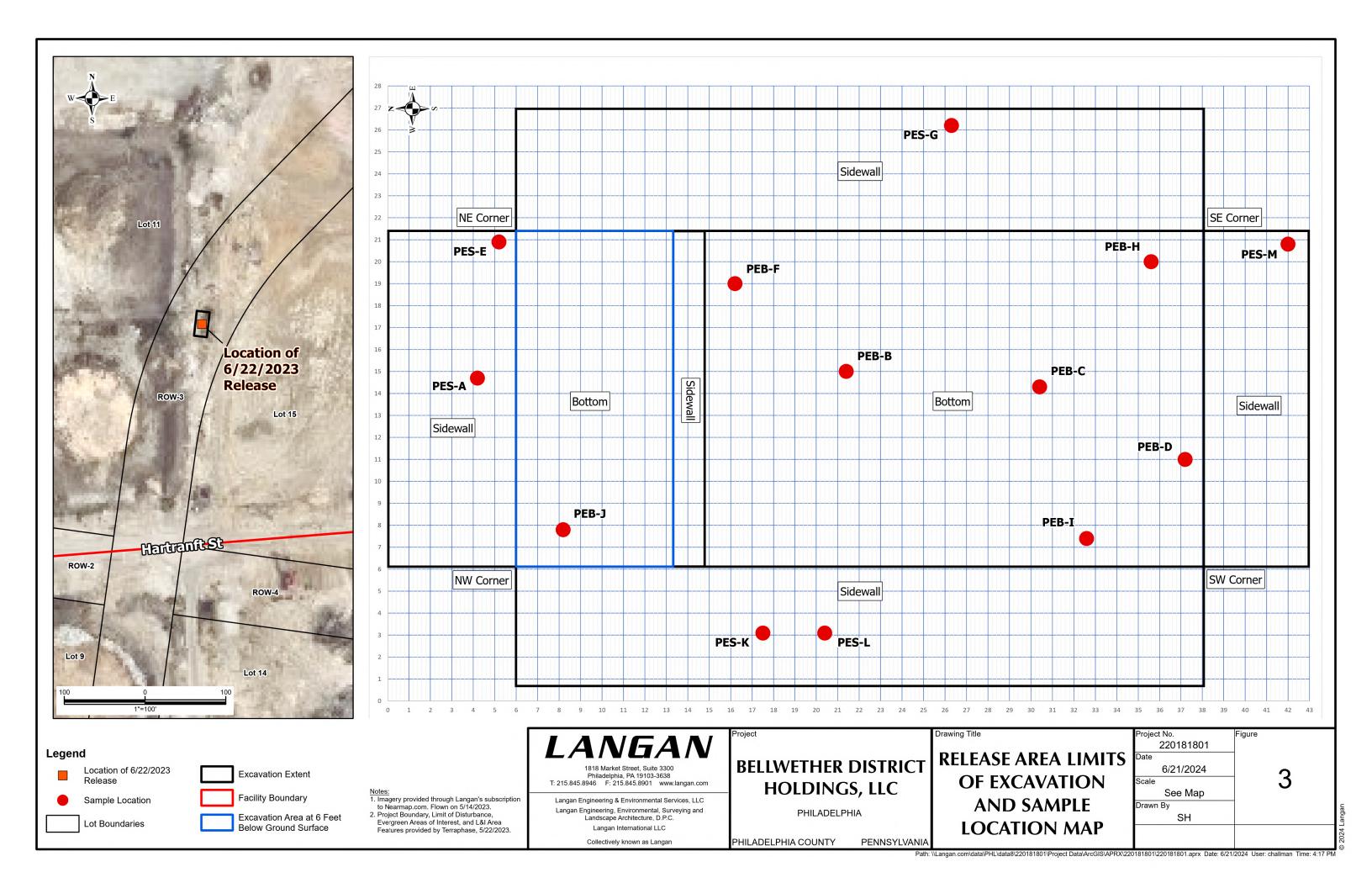


Table 1 Selection of Statewide Health Standards Bellwether District Holdings, LLC. Philadelphia, PA

Compound Name	PADEP Non-Residential Direct Contact 0-2 Ft	PADEP Non-Residential Direct Contact 2-15 Ft	PADEP Non-Residential Soil to Groundwater MSC Used Aquifer TDS <=2500 mg/l Unsaturated 100X MSC	PADEP Non-Residential Soil to Groundwater MSC Used Aquifer TDS <=2500 mg/l Unsaturated Generic Value
Benzene	280	330	0.5	0.13
1,2-Dibromoethane (EDB)	3.7	4.2	0.005	0.0012
1,2-Dichloroethane (EDC)	85	98	0.5	0.1
Ethylbenzene	880	1000	70	46
Isopropylbenzene	10000	10000	350	2500
Methyl Tertiary Butyl Ether (MTBE)	8500	9800	2	0.28
Naphthalene	66	77	10	25
Toluene	10000	10000	100	44
1,2,4-Trimethylbenzene	4700	5400	53	300
1,3,5-Trimethylbenzene	4700	5400	53	93
Xylenes (Total)	7900	9100	1000	990
Anthracene	190000	190000	6.6	350
Benzo(a)anthracene	130	190000	0.39	340
Benzo(a)pyrene	91	190000	0.02	46
Benzo(b)fluoranthene	76	190000	0.055	610
Benzo(g,h,i)perylene	190000	190000	0.026	180
Chrysene	760	190000	0.19	230
Fluorene	130000	190000	190	3800
Phenanthrene	190000	190000	110	10000
Pyrene	96000	190000	13	2200
Lead	1000	190000	0.5	450

Bold represents the Non-Residential Statewide Health Standards (SWHS) used.

					AOC	06:	23 INCIDENT 1	AREA	Т	0623 INCIDEN	T 1 AREA	062	3 INCIDEN	Γ 1 AREA	062	3 INCIDEN	Γ 1 AREA
		PADEP Non-	PADEP Non-	PADEP Non-Residential	Location		PEB-B			PEB-			PEB-C			PEB-D	
	040			Soil to Groundwater	Sample Name	PE	B-B 4.5-5.0 0	71423		PEB-C 4.5-5.0		PE	B-D 4.5-5.0			DUP-1 07	
Analyte	CAS	Residential	Residential	MSC Used Aquifer TDS	Sample Date		07/14/2023			07/14/2			07/14/20	_ :		07/14/20	
·	Number	Direct Contact	Direct Contact	- <=2500 mg/l	Sample Depth		4.5-5			4.5-5			4.5-5			4.5-5	
		0-2 Ft	2-15 Ft	Unsaturated	Saturation		Unsaturate	d		Unsatur	ated		Unsatura	ted		Unsatura	ted
					Unit	Result	Q MDL	RL I	DF F	Result Q MDL	RL [DF Result	Q MDL	RL DF	Result	Q MDL	RL DF
Volatile Organic Compounds																	
1,2,4-Trimethylbenzene	95-63-6	4700	5400	300	mg/kg	0.91	J 0.021	0.12	1	12 J 0.02	0.12	1 1.2	J 0.02	0.12 1	2.6	J 0.018	0.11 1
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	3.7	4.2	0.005	mg/kg	ND	U 0.00028	0.00048	1	ND U 0.017	0.03	1 ND	U 0.018	0.03 1	ND	U 0.016	0.027 1
1,2-Dichloroethane	107-06-2	85	98	0.5	mg/kg	ND	U 0.016	0.062	1	ND U 0.015	0.059	1 ND	U 0.015	0.06 1	ND	U 0.014	0.054 1
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	4700	5400	93	mg/kg	0.28	0.012	0.12	1	3.7 J 0.011	0.12	1 0.4	J 0.012	0.12 1	0.88	J 0.01	0.11 1
Benzene	71-43-2	280	330	0.5	mg/kg	0.065	0.01	0.031	1	0.22 J 0.0099	0.03	1 0.082	J 0.01	0.03 1	0.3	J 0.009	0.027 1
Ethylbenzene	100-41-4	880	1000	70	mg/kg	0.55	0.0088	0.062	1	6.7 J 0.0084	0.059	1 0.69	J 0.008	5 0.06 1	2.2	J 0.0077	0.054 1
Isopropylbenzene (Cumene)	98-82-8	10000	10000	2500	mg/kg	0.79	0.0068	0.062	1	3.3 J 0.006	0.059	1 1.2	J 0.006	0.06 1	3.9	J 0.0059	0.054 1
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	0.22	0.035	0.12	1	4.2 J 0.033	0.12	1 0.64	J 0.034	0.12 1	1.9	J 0.03	0.11 1
Naphthalene	91-20-3	66	77	25	mg/kg	1.7	0.04	0.25	1	9 J 0.039	0.24	1 0.59	J 0.039	0.24 1	1.4	J 0.035	0.22 1
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	0.036	J 0.018	0.062	1	0.17 J 0.017	0.059	1 0.14	J 0.017	0.06 1	0.33	J 0.016	0.054 1
Tert-Butyl Methyl Ether	1634-04-4	8500	9800	2	mg/kg	0.00039	J 0.00019	0.0019	1	ND U 0.012	0.12	1 ND	U 0.012	0.12 1	ND	U 0.011	0.11 1
Toluene	108-88-3	10000	10000	100	mg/kg	0.034	J 0.034	0.062	1 (0.043 J 0.032	0.059	1 0.057	J 0.032	0.06 1	0.11	J 0.03	0.054 1
Total Xylenes	1330-20-7	7900	9100	1000	mg/kg	0.26	J 0.018	0.062	1	4.4 J 0.017	0.059	1 0.78	J 0.017	0.06 1	2.2	J 0.016	0.054 1
Semi-Volatile Organic Compounds																	
Anthracene	120-12-7	190000	190000	350	mg/kg	0.67	0.19	0.57	5	1.1 0.18	0.56	5 0.37	J 0.038	0.12 1	0.048	J 0.037	0.11 1
Benzo(a)anthracene	56-55-3	130	190000	340	mg/kg	0.22	J 0.11	0.57	5	0.29 J 0.1	0.56	5 0.29	J 0.022	0.12 1	0.026	J 0.021	0.11 1
Benzo(a)pyrene	50-32-8	91	190000	46	mg/kg	ND	U 0.23	0.76	5	ND U 0.23	0.75	5 0.14	J 0.047	0.15 1	ND	U 0.046	0.15 1
Benzo(b)fluoranthene	205-99-2	76	190000	170	mg/kg	ND	U 0.16	0.57	5	0.2 J 0.16	0.56	5 0.16	0.032	0.12 1	ND	U 0.032	0.11 1
Benzo(g,h,i)Perylene	191-24-2	190000	190000	180	mg/kg	ND	U 0.11	0.76	5	0.14 J 0.11	0.75	5 0.079	J 0.023	0.15 1	ND	U 0.022	0.15 1
Chrysene	218-01-9	760	190000	230	mg/kg	0.42	J 0.1	0.57	5	0.5 J 0.097	0.56	5 0.43	J 0.02	0.12 1	0.069	J 0.02	0.11 1
Fluorene	86-73-7	130000	190000	3800	mg/kg	2.8	0.093	0.96	5	4.7 0.091	0.93	5 1.5	J 0.019	0.19 1	0.24	J 0.018	0.19 1
Phenanthrene	85-01-8	190000	190000	10000	mg/kg	6.1	0.12	0.57	5	9.8 0.11	0.56	5 2.8	J 0.023	0.12 1	0.62	J 0.023	0.11 1
Pyrene	129-00-0	96000	190000	2200	mg/kg	0.78	0.095	0.57	5	1.2 0.093	0.56	5 0.63	J 0.019	0.12 1	0.064	J 0.019	0.11 1
Metals																	
Lead	7439-92-1	1000	190000	450	mg/kg	24.4	0.119	2.22	1	9.96 0.114	2.14	1 25.3	0.121	2.26 1	42.1	0.118	2.21 1
General Chemistry																	
Solids, Percent	SOLID	NS	NS	NS	Percent	86.7	0	0	1	88.7 0	0	1 84.7	0	0 1	87.5	0	0 1

					AOC	0623 INCIDEN	T 1 ADEA	06	22 INICIE	ENT 1 AREA		0622	INCIDENT	1 ADEA	1 ,	1622	INCIDENT	1 ADEA	—
				PADEP Non-Residential		PEB-I		00		B-H		0023	PEB-I	I ANEA	'	1023	PEB-J	I ANEA	\dashv
		PADEP Non-	PADEP Non-	Soil to Groundwater	Location	PEB-F 4.5-5.0		D		ъ-п -5.0 071423		DED	1 4.5-5.0 (071422		DED	J 6.0-6.5 (71422	
Analyte	CAS	Residential	Residential	MSC Used Aquifer TDS	Sample Name	07/14/2		Г		-5.0_07 1423 1/2023			07/14/20				07/14/202		
Allalyte	Number	Direct Contact	Direct Contact	<=2500 mg/l	Sample Date	4.5-5				+/2023 5-5			4.5-5	23			6-6.5	<u> </u>	
		0-2 Ft	2-15 Ft	Unsaturated	Sample Depth Saturation	Unsatura				turated			ط.ق-ق Unsaturat	ad			Unsaturate		
				Unsaturated	Unit	Result Q MDL		F Resu			DF Re	esult Q		RL D	Result				DF
Volatile Organic Compounds					Oilit	Mesuit Q MDL	I IIL D	Hesu	t Q IV	DL NL	וון	esuit C	INIDL	I ILL D	Hesuit	ĮΨ	IVIDL	IIL	DI
1.2.4-Trimethylbenzene	95-63-6	4700	5400	300	mg/kg	1.1 0.019	0.11 1	1.9	J 0.	0.2	1	1.9 J	0.017	0.1 1	0.075	J	0.03	0.18	1
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	3.7	4.2	0.005	mg/kg	ND U 0.016	0.028 1	ND		029 0.049		ND U	0.015	0.026 1	ND	Ū		0.00064	1
1,2-Dichloroethane	107-06-2	85	98	0.5	mg/kg	ND U 0.014	0.056	ND		0.098		ND U		0.052	ND	Ū		0.088	1
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	4700	5400	93	mg/kg	0.23 0.011	0.11 1	0.82	J 0.	0.2	1 C).58 J	0.01	0.1 1	0.017	J	0.017	0.18	1
Benzene	71-43-2	280	330	0.5	mg/kg	0.017 J 0.0094	1 0.028 1	0.18	J 0.	0.049).21 J	0.0086	0.026 1	0.19		0.015	0.044	1
Ethylbenzene	100-41-4	880	1000	70	mg/kg	2.7 0.008		0.49	J 0.	0.098	1	1.3 J	0.0073	0.052 1	0.12		0.012	0.088	1
Isopropylbenzene (Cumene)	98-82-8	10000	10000	2500	mg/kg	2.3 0.0062		1.2	J 0.		1 :	2.6 J	0.0056	0.052 1	2.8		0.0096	0.088	1
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	0.23 0.032	0.11 1	0.82	J 0.	0.2	1	1.6 J	0.029	0.1 1	0.12	J	0.05	0.18	1
Naphthalene	91-20-3	66	77	25	mg/kg	0.48 0.037	0.23 1	2.1	J 0.	0.39	1 C).85 J	0.034	0.21 1	0.3	J	0.058	0.35	1
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	0.042 J 0.016	0.056	0.15	J 0.	0.098	1 C).46 J	0.015	0.052 1	0.03	J	0.026	0.088	1
Tert-Butyl Methyl Ether	1634-04-4	8500	9800	2	mg/kg	ND U 0.011	0.11 1	ND	U 0	02 0.2	1	ND U	0.01	0.1 1	0.0004	5 J	0.00026	0.0026	1
Toluene	108-88-3	10000	10000	100	mg/kg	ND U 0.031	0.056	0.087	' J 0.	0.098	1 C).13 J	0.028	0.052 1	0.068	J	0.048	0.088	1
Total Xylenes	1330-20-7	7900	9100	1000	mg/kg	0.27 J 0.016	0.056	0.97	J 0.	0.098	1 :	2.1 J	0.015	0.052 1	0.15	J	0.026	0.088	1
Semi-Volatile Organic Compounds																			
Anthracene	120-12-7	190000	190000	350	mg/kg	0.098 J 0.04	0.12 1	ND	U 0.			ND U	0.000	0.12 1	0.096	J	0.038	0.12	1
Benzo(a)anthracene	56-55-3	130	190000	340	mg/kg	0.13 0.023	0.12 1	ND	U 0.	0.13	1	ND U	0.022	0.12 1	0.056	J	0.022	0.12	1
Benzo(a)pyrene	50-32-8	91	190000	46	mg/kg	0.055 J 0.05	0.16	ND	U 0.			ND U		0.16 1	ND	U		0.16	1
Benzo(b)fluoranthene	205-99-2	76	190000	170	mg/kg	0.071 J 0.034	0.12 1	ND	U 0.			ND U	0.000	0.12 1	ND	U		0.12	1
Benzo(g,h,i)Perylene	191-24-2	190000	190000	180	mg/kg	ND U 0.024	0.16 1	ND	U 0.			ND U	0.020	0.16 1	ND	U	0.023	0.16	1
Chrysene	218-01-9	760	190000	230	mg/kg	0.16 0.021	0.12 1	0.045		0.13		.045 J	0.02	0.12 1	0.15		0.02	0.12	1
Fluorene	86-73-7	130000	190000	3800	mg/kg	0.32 0.02	0.2	0.26).11 J	0.019	0.2 1	0.6		0.019	0.2	1
Phenanthrene	85-01-8	190000	190000	10000	mg/kg	0.84 0.025		0.49				0.26	0.024	0.12 1	1.7		0.024	0.12	1
Pyrene	129-00-0	96000	190000	2200	mg/kg	0.33 0.02	0.12 1	0.04	J 0.	0.13	1 0	.044 J	0.02	0.12 1	0.13		0.019	0.12	_1_
Metals																			
Lead	7439-92-1	1000	190000	450	mg/kg	57.1 0.13	2.44 1	9.83	0.	34 2.5	1 4	16.5	0.122	2.27 1	7.4		0.121	2.26	_1_
General Chemistry	T	1			T														
Solids, Percent	SOLID	NS	NS	NS	Percent	80.6	0 1	75.2		0 0	1 8	34.6	0	0 1	84.1		0	0	1

					AOC	0623	3 INCIDENT	1 AREA	1	062	23 INCIDENT	1 AREA		0623	INCIDENT	1 AREA	06	23 INC	IDENT 1	AREA
		PADEP Non-	PADEP Non-	PADEP Non-Residential	Location		PES-A				PES-E				PES-G				PES-K	
	CAS	Residential	Residential	Soil to Groundwater	Sample Name	PES	S-A_4.2-4.7	071423		PE	S-E_5.2-5.7_0	71423		PES-	G_1.7-2.2	071423	Р	ES-K_3	.1-3.6_0	71423
Analyte	Number	Direct Contact	Direct Contact	MSC Used Aquifer TDS	Sample Date		07/14/20	23			07/14/202	3			07/14/20	23		07/	14/2023	3
	ivuilibei		2-15 Ft	<=2500 mg/l	Sample Depth		4.2-4.7	1			5.2-5.7				1.7-2.2			3	3.1-3.6	
		0-2 Ft	2-15 Ft	Unsaturated	Saturation		Unsatura	ted			Unsaturate	ed			Unsatura	ed		Uns	aturate	d
					Unit	Result	Q MDL	RL	DF	Result	Q MDL	RL	DF R	esult	Q MDL	RL DF	Result	: Q	MDL	RL DF
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	95-63-6	4700	5400	300	mg/kg	12	J 0.021	0.13	1	0.052	J 0.019	0.11	1 (0.39	J 0.099	0.59 5	0.1	J (0.021	0.13 1
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	3.7	4.2	0.005	mg/kg	ND	U 0.019	0.032	1	ND	U 0.00031	0.00052	1	ND	U 0.086	0.15 5	ND	U	0.018	0.032 1
1,2-Dichloroethane	107-06-2	85	98	0.5	mg/kg	ND	U 0.016	0.064	1	ND	U 0.015	0.057	1	ND	U 0.076	0.3 5	ND	U	0.016	0.063 1
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	4700	5400	93	mg/kg	1	J 0.012	0.13	1	0.00031	J 0.0002	0.0021	1 (0.42	J 0.057	0.59 5	0.046	J (0.012	0.13 1
Benzene	71-43-2	280	330	0.5	mg/kg	0.073	J 0.011	0.032	1	0.038	0.0094	0.028	1 (0.11	J 0.049	0.15 5	ND	U		0.032 1
Ethylbenzene	100-41-4	880	1000	70	mg/kg	7.6	J 0.009	0.064	1	0.089	0.008	0.057	1	13	J 0.042	0.3 5	0.053			0.063 1
Isopropylbenzene (Cumene)	98-82-8	10000	10000	2500	mg/kg	4.4	J 0.007	0.064	1	1.5	0.0062	0.057	1	27	J 0.032	0.3 5	4.5	J 0	.0069	0.063 1
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	2.7	J 0.036	0.13	1	0.0025	J 0.00058	0.0021	1 (0.66	J 0.16	0.59 5	0.17	J	0.035	0.13 1
Naphthalene	91-20-3	66	77	25	mg/kg	4.2	J 0.042	0.26	1	0.13	J 0.037	0.23	1	1.3	J 0.19	1.2 5	0.38	J (0.041	0.25 1
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	0.072	J 0.019	0.064	1	0.0046	J 0.0003	0.001	1 (0.27	J 0.086	0.3 5	0.057	J (0.018	0.063 1
Tert-Butyl Methyl Ether	1634-04-4	8500	9800	2	mg/kg	ND	U 0.013	0.13	1	0.11	0.011	0.11		ND	U 0.059	0.59 5	ND	U	0.013	0.13 1
Toluene	108-88-3	10000	10000	100	mg/kg	0.036	J 0.035	0.064	1	0.0024	J 0.00057	0.001	1 (0.39	J 0.16	0.3 5	0.038	J (0.034	0.063 1
Total Xylenes	1330-20-7	7900	9100	1000	mg/kg	2.8	J 0.019	0.064	1	0.0071	J 0.0003	0.001	1 (0.93	J 0.086	0.3 5	0.23	J (0.018	0.063 1
Semi-Volatile Organic Compounds																				
Anthracene	120-12-7	190000	190000	350	mg/kg	ND	U 0.041	0.13	1	0.041	J 0.04	0.12	1 (0.15	0.038	0.12 1	ND		0.039	0.12 1
Benzo(a)anthracene	56-55-3	130	190000	340	mg/kg	ND	U 0.024	0.13	1	ND	U 0.023	0.12	1	ND	U 0.022	0.12 1	ND	U (0.022	0.12 1
Benzo(a)pyrene	50-32-8	91	190000	46	mg/kg	ND	U 0.051	0.17	1	ND	U 0.05	0.16	1	ND	U 0.048	0.16 1	ND	U (0.049	0.16 1
Benzo(b)fluoranthene	205-99-2	76	190000	170	mg/kg	ND	U 0.035	0.13	1	ND	U 0.034	0.12	1	ND	U 0.033	0.12 1	ND	U	0.034	0.12 1
Benzo(g,h,i)Perylene	191-24-2	190000	190000	180	mg/kg	ND	U 0.025	0.17	1	ND	U 0.024	0.16	1	ND	U 0.023	0.16 1	ND		0.023	0.16 1
Chrysene	218-01-9	760	190000	230	mg/kg	0.033	J 0.022	0.13	1	0.058	J 0.021	0.12	1	ND	U 0.02	0.12 1	0.04	J (0.021	0.12 1
Fluorene	86-73-7	130000	190000	3800	mg/kg	0.11	J 0.02	0.21	1	0.26	0.02	0.2		1.1	0.019	0.2 1	0.1		0.019	0.2 1
Phenanthrene	85-01-8	190000	190000	10000	mg/kg	0.32	0.026	0.13	1	0.69	0.025	0.12		2.5	0.024	0.12 1	0.27		0.024	0.12 1
Pyrene	129-00-0	96000	190000	2200	mg/kg	0.026	J 0.021	0.13	1	0.051	J 0.02	0.12	1 (0.14	0.02	0.12 1	0.027	J	0.02	0.12 1
Metals																				
Lead	7439-92-1	1000	190000	450	mg/kg	7.24	0.129	2.41	1	7.04	0.129	2.4	1 6	5.99	0.123	2.3 1	14.2	(0.125	2.32 1
General Chemistry																				
Solids, Percent	SOLID	NS	NS	NS	Percent	78.4	0	0	1	80	0	0	1 8	34.3	0	0 1	82.7		0	0 1

					100	0000	INICIDENT	1 4 0 5 4		00001	NICIDENIE	4 4 D E 4		000	ALOUA INIOID	ENIT 4	<u> </u>		SOCO INICIE	DENIT 4
				PADEP Non-Residential	AOC	0623	INCIDENT	1 AKEA		0623 I	NCIDENT	1 AKEA		062	223 INCID			06	52223 INCIE	
		PADEP Non-	PADEP Non-	Soil to Groundwater	Location	5=6	PES-L				PES-M	AT 4400			PEB-2B				PEB-20	
Analosta	CAS	Residential	Residential		Sample Name	PES	S-L_3.1-3.6_				/I_1.0-1.5 __				2B_5.0-5.5			PEB	-2C_5.0-5.5	
Analyte	Number	Direct Contact	Direct Contact	MSC Used Aquifer TDS	Sample Date		07/14/202				07/14/20	23			08/15/20	23			08/15/20	23
		0-2 Ft	2-15 Ft	<=2500 mg/l	Sample Depth		3.1-3.6				1-1.5				5-5.5				5-5.5	
				Unsaturated	Saturation		Unsaturat				Jnsaturat		_		Unsaturat				Unsatura	
V 1 (1) 0 1 0					Unit	Result	Q MDL	RL	DF	Result Q	MDL	RL D	F Res	ult Q	MDL	RL	DF Re	sult Q	MDL	RL DF
Volatile Organic Compounds											T					T T			1	
1,2,4-Trimethylbenzene	95-63-6	4700	5400	300	mg/kg	0.058	J 0.017	0.1	1	0.088 J	0.019	0.11	N/	•				JA		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	3.7	4.2	0.005	mg/kg	ND	U 0.014	0.025	1	ND U	0.017	0.028	NE		0.00025	0.0006			0.00025	0.00059 1
1,2-Dichloroethane	107-06-2	85	98	0.5	mg/kg	ND	U 0.013	0.05	1	ND U	0.015	0.057	N/					JA		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	4700	5400	93	mg/kg	0.017	J 0.0096	0.1	1	0.11 J	0.011	0.11	N.A					JA		
Benzene	71-43-2	280	330	0.5	mg/kg	ND	U 0.0083	0.025	1	0.05 J	0.0095	0.028	NA	١.			١	JA		
Ethylbenzene	100-41-4	880	1000	70	mg/kg	0.031	J 0.007	0.05	1	0.23 J	0.0081	0.057	NA	\			١	IA		
Isopropylbenzene (Cumene)	98-82-8	10000	10000	2500	mg/kg	2.6	J 0.0054	0.05	1	5.1 J	0.0062	0.057	NA	\			١	1A		
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	0.036	J 0.028	0.1	1	0.4 J	0.032	0.11	NA				1	JA		
Naphthalene	91-20-3	66	77	25	mg/kg	0.23	J 0.032	0.2	1	0.49 J	0.037	0.23	NA				1	JA		
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	0.022	J 0.014	0.05	1	0.16 J	0.017	0.057	NA				1	JA		
Tert-Butyl Methyl Ether	1634-04-4	8500	9800	2	mg/kg	ND	U 0.01	0.1	1	ND U	0.011	0.11	NA	\ \			1	IA		
Toluene	108-88-3	10000	10000	100	mg/kg	ND	U 0.027	0.05	1	0.079 J	0.031	0.057	NA	\			1	JA		
Total Xylenes	1330-20-7	7900	9100	1000	mg/kg	0.058	J 0.014	0.05	1	0.56 J	0.017	0.057	NA	\			1	JA		
Semi-Volatile Organic Compounds																				
Anthracene	120-12-7	190000	190000	350	mg/kg	0.077	J 0.039	0.12	1	0.099 J	0.038	0.12	NA	\			1	IA		
Benzo(a)anthracene	56-55-3	130	190000	340	mg/kg	0.024	J 0.022	0.12	1	0.055 J	0.022	0.12	NA	\ \			1	IA		
Benzo(a)pyrene	50-32-8	91	190000	46	mg/kg	ND	U 0.049	0.16	1	ND U	0.048	0.16	NA	\ \			1	JA		
Benzo(b)fluoranthene	205-99-2	76	190000	170	mg/kg	ND	U 0.034	0.12	1	ND U	0.033	0.12	NA	\ \			1	IA		
Benzo(g,h,i)Perylene	191-24-2	190000	190000	180	mg/kg	ND	U 0.023	0.16	1	ND U	0.023	0.16	N/	\			١	JA		
Chrysene	218-01-9	760	190000	230	mg/kg	0.076	J 0.021	0.12	1	0.15	0.02	0.12	N/	\			١	1A		
Fluorene	86-73-7	130000	190000	3800	mg/kg	0.27	0.019	0.2	1	0.88	0.019	0.2	N.A	\			١	JA		
Phenanthrene	85-01-8	190000	190000	10000	mg/kg	0.78	0.024	0.12	1	1.8	0.024	0.12	N.A	\			N	JA		
Pyrene	129-00-0	96000	190000	2200	mg/kg	0.088	J 0.02	0.12	1	0.14	0.02	0.12	N.A	\				JA		
Metals																				
Lead	7439-92-1	1000	190000	450	mg/kg	7.4	0.125	2.34	1	30.4 J	0.127	2.37	N.A				1	JA		
General Chemistry																				
Solids, Percent	SOLID	NS	NS	NS	Percent	82.9	0	0	1	82.7	0	0	N.A	\			1	JA		

	I			T			000000 181011	SENIT 4		000000 INI	NDENIT 4		200000	INIOID	ENIT 4		0000	00 INIOID	ENIT 4
				PADEP Non-Residential	AOC		062223 INCII			062223 IN			062223				0622	23 INCID	
		PADEP Non-	PADEP Non-	Soil to Groundwater	Location		PEB-2I			PEB-				EB-2F			DED 61	PEB-2H	
Amalista	CAS	Residential	Residential		Sample Name	P	EB-2D_5.0-5.			DUP-1_0			PEB-2F_5					1_5.0-5.5	_
Analyte	Number	Direct Contact	Direct Contact	MSC Used Aquifer TDS	Sample Date		08/15/20	123		08/15/				15/202	23		C	8/15/202	23
		0-2 Ft	2-15 Ft	<=2500 mg/l	Sample Depth		5-5.5			5-5				5-5.5				5-5.5	
				Unsaturated	Saturation	C	Unsatura		Б.	Unsatu		Ь.		aturat		DE D		nsaturat	
Volatile Organic Compounds					Unit	Result	Q MDL	RL	DF	Result Q MDL	RL	DF	Result Q MI)L	RL	DF Res	ult Q	MDL	RL DF
1,2,4-Trimethylbenzene	95-63-6	4700	5400	300	700 m/l/m	NA			1	NIA		1	NA			N	Λ		$\overline{}$
					mg/kg		11 0 00005	0.00001	1	NA NO COO	F 0.0000	1		000	0.00000		-	00004	0.00050 1
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	3.7	4.2	0.005	mg/kg	ND NA	U 0.00025	0.00061		ND U 0.0002	5 0.0006	1	ND U 0.00	026	0.00062	1 N		.00024	0.00058 1
1,2-Dichloroethane	107-06-2	85	98	0.5	mg/kg					NA			NA NA			N.			
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	4700	5400	93	mg/kg	NA				NA			NA NA			N.			
Benzene	71-43-2	280	330	0.5	mg/kg	NA				NA						N.			
Ethylbenzene	100-41-4	880	1000	70	mg/kg	NA				NA			NA			N.			
Isopropylbenzene (Cumene)	98-82-8	10000	10000	2500	mg/kg	NA				NA			NA			N.			
M,P-Xylene	179601-23-1	NS	NS	NS 05	mg/kg	NA				NA			NA			N.			
Naphthalene	91-20-3	66	77	25	mg/kg	NA				NA			NA			N.	-		
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS 2	mg/kg	NA				NA			NA			N.			
Tert-Butyl Methyl Ether	1634-04-4	8500	9800	۷	mg/kg	NA				NA			NA			N.			
Toluene	108-88-3	10000	10000	100	mg/kg	NA				NA			NA			N.			
Total Xylenes	1330-20-7	7900	9100	1000	mg/kg	NA			ш	NA			NA			N.	Δ		
Semi-Volatile Organic Compounds	T		T											<u> </u>					
Anthracene	120-12-7	190000	190000	350	mg/kg	NA				NA			NA			N.			
Benzo(a)anthracene	56-55-3	130	190000	340	mg/kg	NA				NA			NA			N.	_		
Benzo(a)pyrene	50-32-8	91	190000	46	mg/kg	NA				NA			NA			N.			
Benzo(b)fluoranthene	205-99-2	76	190000	170	mg/kg	NA				NA			NA			N.			
Benzo(g,h,i)Perylene	191-24-2	190000	190000	180	mg/kg	NA				NA			NA			N.	-		
Chrysene	218-01-9	760	190000	230	mg/kg	NA				NA			NA			N.			
Fluorene	86-73-7	130000	190000	3800	mg/kg	NA				NA			NA			N.	-		
Phenanthrene	85-01-8	190000	190000	10000	mg/kg	NA				NA		\perp	NA			N.			
Pyrene	129-00-0	96000	190000	2200	mg/kg	NA				NA			NA			N.	Д		
Metals																			
Lead	7439-92-1	1000	190000	450	mg/kg	NA				NA			NA			N.	Д		
General Chemistry																			
Solids, Percent	SOLID	NS	NS	NS	Percent	NA				NA			NA			N.	Д		

Philadelphia, PA

					AOC	0622	223 INCID	ENT 1		06	2223 INCID	ENT 1		062223 INC	IDENT 1		06	52223 INCI	DENT 1	\neg
		PADEP Non-	PADEP Non-	PADEP Non-Residential	Location		PEB-2I				PEB-2J			PES-	2A			PES-2	E	
	CAS	Residential	Residential	Soil to Groundwater	Sample Name	PEB-2	21 5.0-5.5			PEB	-2J 6.5-7.0	081523	PE		1.7 081523		PES	-2E 5.2-5.		
Analyte		110010101101		MSC Used Aquifer TDS	Sample Date	(08/15/20	23			08/15/202	23		08/15/	2023			08/15/2	023	
	Number		Direct Contact	<=2500 mg/l	Sample Depth		5-5.5				6.5-7			4.2-4	1.7			5.2-5.	7	
		0-2 Ft	2-15 Ft	Unsaturated	Saturation	L	Unsaturat	ted			Unsaturat	ed		Unsatu	rated			Unsatura	ated	
					Unit	Result Q	MDL	RL	DF Resu	ılt Q	MDL	RL	DF Result (2 MDL	RL	DF Re	sult Q	MDL	RL	DF
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	95-63-6	4700	5400	300	mg/kg	NA			NA				NA			N	NA			
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	3.7	4.2	0.005	mg/kg	ND U C	0.00024	0.00056	1 ND	U	0.00026	0.00061	1 ND U	J 0.00025	0.00059	1 N	ND U	0.00027	0.00064	, 1
1,2-Dichloroethane	107-06-2	85	98	0.5	mg/kg	NA			NA				NA			N	NA			
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	4700	5400	93	mg/kg	NA			NA				NA			N	1A			
Benzene	71-43-2	280	330	0.5	mg/kg	NA			NA				NA				NA			
Ethylbenzene	100-41-4	880	1000	70	mg/kg	NA			NA				NA			N	1A			
Isopropylbenzene (Cumene)	98-82-8	10000	10000	2500	mg/kg	NA			NA				NA				NA			
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	NA			NA				NA			N	1A			
Naphthalene	91-20-3	66	77	25	mg/kg	NA			NA				NA			N	1A			
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	NA			NA				NA			N	1A			
Tert-Butyl Methyl Ether	1634-04-4	8500	9800	2	mg/kg	NA			NA				NA			N	1A			
Toluene	108-88-3	10000	10000	100	mg/kg	NA			NA				NA			N	NA			
Total Xylenes	1330-20-7	7900	9100	1000	mg/kg	NA			NA				NA			N	NA			
Semi-Volatile Organic Compounds																				
Anthracene	120-12-7	190000	190000	350	mg/kg	NA			NA				NA				NA			
Benzo(a)anthracene	56-55-3	130	190000	340	mg/kg	NA			NA				NA				NA			
Benzo(a)pyrene	50-32-8	91	190000	46	mg/kg	NA			NA				NA				NA			
Benzo(b)fluoranthene	205-99-2	76	190000	170	mg/kg	NA			NA				NA				NA			
Benzo(g,h,i)Perylene	191-24-2	190000	190000	180	mg/kg	NA			NA				NA				NA			
Chrysene	218-01-9	760	190000	230	mg/kg	NA			NA				NA			N	NA			
Fluorene	86-73-7	130000	190000	3800	mg/kg	NA			NA				NA			N	NA			
Phenanthrene	85-01-8	190000	190000	10000	mg/kg	NA			NA				NA				NA			
Pyrene	129-00-0	96000	190000	2200	mg/kg	NA			NA				NA			_ N	NA			
Metals																				
Lead	7439-92-1	1000	190000	450	mg/kg	NA			NA				NA			_ N	NA			
General Chemistry																				
Solids, Percent	SOLID	NS	NS	NS	Percent	NA			NA				NA			N	1A			

					400		062223 INCID	NENIT 1		062222 11	NCIDENT 1		062222 IN/	NDENT 1	00	2223 INCIE	DENT 4
				PADEP Non-Residential	AOC								062223 INC		06		
		PADEP Non-	PADEP Non-	Soil to Groundwater	Location		PES-20				S-2K		PES-		DEO	PES-2N	
Analyte	CAS	Residential	Residential	MSC Used Aquifer TDS	Sample Name	r	PES-2G_1.7-2.2				I-3.6_08152	5	PES-2L_3.1-3		PES-	·2M_1.0-1.	
Analyte	Number	Direct Contact	Direct Contact	_	Sample Date		08/15/20				5/2023		08/15/			08/15/20	
		0-2 Ft	2-15 Ft	<=2500 mg/l	Sample Depth		1.7-2.2				-3.6		3.1-3			1-1.5	
				Unsaturated	Saturation Unit	Result	Unsatura		DE	Result Q M	turated DL RL	DE	Result Q MDL		F Result Q	Unsatura	RL DF
Volatile Organic Compounds					Unit	Result	Q MDL	NL.	DF	Result Q IVIL	DL KL	וטר	Result Q MDL	RL D	F Result Q	MDL	RL DF
1.2.4-Trimethylbenzene	95-63-6	4700	5400	300	m a/ka	NA				NA			NA		NA		
, ,	106-93-4	3.7			mg/kg	ND	U 0.00025	0.00058	1	ND U 0.00	0.000	2 1	ND U 0.00024	1 0.00057 1	ND U	0.00027	0.00064 1
1,2-Dibromoethane (Ethylene Dibromide) 1,2-Dichloroethane	106-93-4	3.7 85	4.2 98	0.005 0.5	mg/kg mg/kg	NA NA	0.00025	0.00058		NA 0.00	J25 U.UUU) I	NA 0.00022	1 0.00057	NA NA	0.00027	0.00064 1
1,3,5-Trimethylbenzene (Mesitylene)	107-06-2	4700	5400	1		NA				NA			NA NA				
	71-43-2	280	330	93	mg/kg	NA NA				NA NA			NA NA		NA NA		
Benzene				0.5	mg/kg	NA NA							NA NA		NA NA		
Ethylbenzene	100-41-4	880	1000	70	mg/kg					NA							
Isopropylbenzene (Cumene)	98-82-8	10000	10000	2500	mg/kg	NA				NA			NA		NA		
M,P-Xylene	179601-23-1	NS	NS 	NS	mg/kg	NA				NA			NA		NA		
Naphthalene	91-20-3	66	77	25	mg/kg	NA				NA			NA		NA		
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	NA				NA			NA		NA		
Tert-Butyl Methyl Ether	1634-04-4	8500	9800	2	mg/kg	NA				NA			NA		NA		
Toluene	108-88-3	10000	10000	100	mg/kg	NA				NA			NA		NA		
Total Xylenes	1330-20-7	7900	9100	1000	mg/kg	NA				NA			NA		NA		
Semi-Volatile Organic Compounds	•	•			•												
Anthracene	120-12-7	190000	190000	350	mg/kg	NA				NA			NA		NA		
Benzo(a)anthracene	56-55-3	130	190000	340	mg/kg	NA				NA			NA		NA		
Benzo(a)pyrene	50-32-8	91	190000	46	mg/kg	NA				NA			NA		NA		
Benzo(b)fluoranthene	205-99-2	76	190000	170	mg/kg	NA				NA			NA		NA		
Benzo(g,h,i)Perylene	191-24-2	190000	190000	180	mg/kg	NA				NA			NA		NA		
Chrysene	218-01-9	760	190000	230	mg/kg	NA				NA			NA		NA		
Fluorene	86-73-7	130000	190000	3800	mg/kg	NA				NA			NA		NA		
Phenanthrene	85-01-8	190000	190000	10000	mg/kg	NA				NA			NA		NA		
Pyrene	129-00-0	96000	190000	2200	mg/kg	NA				NA			NA		NA		
Metals																	
Lead	7439-92-1	1000	190000	450	mg/kg	NA				NA			NA		NA		
General Chemistry																	
Solids, Percent	SOLID	NS	NS	NS	Percent	NA				NA			NA		NA		

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Summary of Soil Sample Analytical Results Post Excavation Soil Sampling Bellwether District Holdings, LLC. Philadelphia, PA

Table 2

Notes:

Sample Nomenclature: PES-A_4.2-4.7_071423 - Post-Excavation Side Sample, Sample ID, Depth, and Sample Date Sample Nomenclature: PEB-B_4.5-5.0_071423 - Post-Excavation Bottom Sample, Sample ID, Depth, and Sample Date

Soil samples were compared to the PADEP MSCs (November 2021) PADEP - Pennsylvania Department of Environmental Protection

MSC - Medium Specific Concentrations

TDS - Total Dissolved Solids

CAS - Chemical Abstract Service

NS - No standard

mg/kg - Milligrams per kilogram

ND - Not detected

Q - Qualifier

MDL - Method detection limit

RL - Reporting Limit

DF - Dilution factor

Qualifiers:

J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

- Result exceeds PADEP Non-Residential Direct Contact 0-2 Ft

- Result exceeds PADEP Non-Residential Direct Contact 2-15 Ft

10 - Result exceeds PADEP Non-Residential Soil to Groundwater MSC Used Aquifer TDS <=2500 mg/l Unsaturated

10 - MDL or RL greater than the applicable standard

Table 3 **Summary of Attainment Sample Locations and Depths** Post-Excavation Soil Sampling Bellwether District Holdings, LLC. Philadelphia, PA

Location ID	X Measurement (feet)	Y Measurement (feet)	Sidewall or Bottom Location	Feet Below Ground Surface (ft bgs)	Instructions	Sample ID	Depth (ft bgs)	Sample Date	PID Reading (PPM)	Notes
					7/15/2023 - Sample Locations					
PES-A	4.2	14.7	Northern Sidewall	4.2	8.7 ft east of NW corner	PES-A_3.0-3.5_071423	3.0-3.5	7/14/2023	8.3	Soil lithology noted as sand with some clay
PES-B	21.4	15	Bottom	4.5	15.4 ft south of NW corner, 9 ft east	PES-B_2.7-3.2_071423	2.7-3.2	7/14/2023	3.2	Soil lithology noted as sand with some clay
PES-C	30.4	14.3	Bottom	4.5	6.6 ft north of SW corner, 8.3 ft east	PES-C_3.5-4.0_071523	3.5-4.0	7/14/2023	14.8	Soil lithology noted as sand with some clay
PEB-D	37.2	11	Bottom	4.5	5 ft east of SW corner	PEB-D_4.5-5.0_071423	4.5-5.0	7/14/2023	45.3	Soil lithology noted as sand with some clay
PEB-E	5.2	20.9	Northern Sidewall	5.2	1.1 ft west of NE corner	PEB-E_4.5-5.0_071423	4.5-5.0	7/14/2023	9.4	Soil lithology noted as sand with some clay
PEB-F	16.2	19	Bottom	4.5	3 ft east of NE corner, 10.2 ft south	PEB-F_4.5-5.0_071423	4.5-5.0	7/14/2023	3.6	Soil lithology noted as sand with some clay
PES-G	26.3	26.2	Eastern Sidewall	1.7	10.7 ft north of SE corner	PES-G_2.6-3.1_071423	2.6-3.1	7/14/2023	15.8	Soil lithology noted as sand with some clay
PES-H	35.6	20	Bottom	4.5	1.4 ft north of SE corner	PES-H_3.3-3.8_071423	3.3-3.8	7/14/2023	67.9	Soil lithology noted as sand with some clay
PES-I	32.6	7.4	Bottom	4.5	4.4 ft south of SW corner, 1.4 ft east of SW corner	PES-I_3.8-4.3_071423	3.8-4.3	7/14/2023	12.3	Soil lithology noted as sand with some clay
PEB-J	8.2	7.8	Bottom	6.0	2.2 ft south of NW corner, 1.8 ft east	PEB-J_4.5-5.0_071423	4.5-5.0	7/14/2023	82	Soil lithology noted as sand with some clay
PEB-K	17.5	3.1	Western Sidewall	3.1	11.5 ft south of NW corner	PEB-K_4.5-5.0_071423	4.5-5.0	7/14/2023	27.9	Soil lithology noted as sand with some clay
PES-L	20.4	3.1	Western Sidewall	3.1	14.4 ft south of NW corner	PES-L_0.8-1.3_071423	0.8-1.3	7/14/2023	128.1	Soil lithology noted as sand with some clay
PES-M	42	20.8	Southern Sidewall	1.0	1.2 ft west of SE corner	PES_M_1.0-1.5_071423	1.0-1.5	7/14/2023	20.4	Soil lithology noted as sand with some clay
	20.43.1Western Sidewall3.114.4 ft south of NW corner4220.8Southern Sidewall1.01.2 ft west of SE corner8/15/2023 - Re-Sampled Locations to Achieve		5/2023 - Re-Sampled Locations to Achieve EDB Det	ection Limits*						
PES-A	4.2	14.7	Northern Sidewall	4.2	8.7 ft east of NW corner	PES-2A_4.2-4.7_081523	4.2-4.7	8/15/2023	3.2	Soil lithology noted as sand with some clay
PES-B	21.4	15	Bottom	5.0	15.4 ft south of NW corner, 9 ft east	PEB-2B_5.0-5.5_081523	5.0-5.5	8/15/2023	69.4	Soil lithology noted as sand with some clay
PES-C	30.4	14.3	Bottom	5.0	6.6 ft north of SW corner, 8.3 ft east	PEB-2C_5.0-5.5_081523	5.0-5.5	8/15/2023	6.8	Soil lithology noted as sand with some clay
PEB-D	37.2	11	Bottom	5.0	5 ft east of SW corner	PEB-2D_5.0-5.5_081523	5.0-5.5	8/15/2023	67.7	Soil lithology noted as sand with some clay
PEB-E	5.2	20.9	Northern Sidewall	5.2	1.1 ft west of NE corner	PES-2E_5.2-5.7_081523	5.2-5.7	8/15/2023	2.7	Soil lithology noted as sand with some clay
PEB-F	16.2	19	Bottom	5.0	3 ft east of NE corner, 10.2 ft south	PEB-2F_5.0-5.5_081523	5.0-5.5	8/15/2023	67.5	Soil lithology noted as sand with some clay
PES-G	26.3	26.2	Eastern Sidewall	1.7	10.7 ft north of SE corner	PES-2G_1.7-2.2_081523	1.7-2.2	8/15/2023	242.5	Soil lithology noted as sand with some clay
PES-H	35.6	20	Bottom	5.0	1.4 ft north of SE corner	PEB-2H_5.0-5.5_081523	5.0-5.5	8/15/2023	94	Soil lithology noted as sand with some clay
PES-I	32.6	7.4	Bottom	5.0	4.4 ft south of SW corner, 1.4 ft east of SW corner	PEB-2I_5.0-5.5_081523	5.0-5.5	8/15/2023	56.5	Soil lithology noted as sand with some clay
PEB-J	8.2	7.8	Bottom	6.5	2.2 ft south of NW corner, 1.8 ft east	PEB-2J_6.5-7.0_081523	6.5-7.0	8/15/2023	104.7	Soil lithology noted as sand with some clay
PEB-K	17.5	3.1	Western Sidewall	3.1	11.5 ft south of NW corner	PES-2K_3.1-3.6_081523	3.1-3.6	8/15/2023	6.4	Soil lithology noted as sand with some clay
PES-L	20.4	3.1	Western Sidewall	3.1	14.4 ft south of NW corner	PES-2L_3.1-3.6_081523	3.1-3.6	8/15/2023	67.4	Soil lithology noted as sand with some clay
PES-M	42	20.8	Southern Sidewall	1.0	1.2 ft west of SE corner	PES-2M_1.0-1.5_081523	1.0-1.5	8/15/2023	93.2	Soil lithology noted as sand with some clay
						DUP-1	-	7/14/2023		Parent Sample: PEB-D_4.5-5.0_071423
	Notes:					FB-1_071423	-	7/14/2023		Field Blank - stainless steel trowel
	•	~	023 sampling event were o DEP Statewide Health Sta		elevated MDLs reported during the 7/14/2023	DUP-1	-	8/15/2023		Parent Sample: PEB-2D_5.0-5.5_081523
	PADEP - Pennsylvar	nia Department of En	vironmental Protection			FB-1_071423	-	8/15/2023		Field Blank - stainless steel trowel

MDL - Method

EDB - 1,2-Dibromoethane

ft bgs - Feet below ground surface.

PPM - Parts per million.

NW - Northwest

SW-Southwest

NE - Northeast

SE - Southeast

SW - Southwest

Table 4 Summary of Soil Results - Vapor Intrusion Screening Post-Excavation Sampling Event Bellwether District Holdings, LLC. Philadelphia, PA

			AOC	06	23	INCIDENT 1	AREA		0623	3 IN	CIDENT	1 AREA		0623	INC	CIDENT	1 AREA		0623	INCIDEN	T 1 ARE	Α
		PADEP Act 2 Non-	Location			PEB-B					PEB-C					PEB-D				PEB-I)	
	040	Residential Soil	Sample Name	P	EB-	B_4.5-5.0_0	71423		PE	3-C_	4.5-5.0_0	71423		PEB-	-D_4	4.5-5.0_0	071423		C	UP-1_07	1423	
Analyte	CAS Number	Statewide Health Standard Vapor	Sample Date			07/14/202	3			0	7/14/202	3			07	/14/202	:3			07/14/2	023	
	Number	Intrusion Screening	Sample Depth			4.5-5					4.5-5					4.5-5				4.5-5		-
		Values	Saturation			Unsaturate	d			Ur	nsaturate	ed			Un	saturate	ed			Unsatur	ated	
		values	Unit	Result	Ω	MDL	RL	DF	Result	Ω	MDL	RL	DF	Result	Ω	MDL	RL	DF	Result C	MDL	RL	DF
Volatile Organic Compounds			2111											,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
1,2,4-Trimethylbenzene	95-63-6	300	mg/kg	0.91	J	0.021	0.12	1	12	J	0.02	0.12	1	1.2	J	0.02	0.12	1	2.6 J	0.018	0.11	1
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0013	mg/kg	ND	U	0.00028	0.00048	1	ND	U	0.017	0.03	1	ND	U	0.018	0.03	1	ND U	0.016	0.027	7 1
1,2-Dichloroethane	107-06-2	0.1	mg/kg	ND	U	0.016	0.062	1	ND	U	0.015	0.059	1	ND	U	0.015	0.06	1	ND U	0.014	0.054	1 1
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	93	mg/kg	0.28		0.012	0.12	1	3.7	J	0.011	0.12	1	0.4	J	0.012	0.12	1	0.88 J	0.01	0.11	1
Benzene	71-43-2	0.13	mg/kg	0.065		0.01	0.031	1	0.22	J	0.0099	0.03	1	0.082	J	0.01	0.03	1	0.3	0.009	0.027	7 1
Ethylbenzene	100-41-4	46	mg/kg	0.55		0.0088	0.062	1	6.7	J	0.0084	0.059	1	0.69	J	0.0085	0.06	1	2.2	0.0077	0.054	1 1
Isopropylbenzene (Cumene)	98-82-8	2500	mg/kg	0.79		0.0068	0.062	1	3.3	J	0.0065	0.059	1	1.2	J	0.0065	0.06	1	3.9 J	0.0059	0.054	1 1
M,P-Xylene	179601-23-1	NS	mg/kg	0.22		0.035	0.12	1	4.2	J	0.033	0.12	1	0.64	J	0.034	0.12	1	1.9 J	0.03	0.11	1
Naphthalene	91-20-3	25	mg/kg	1.7		0.04	0.25	1	9	J	0.039	0.24	1	0.59	J	0.039	0.24	1	1.4 J	0.035	0.22	. 1
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	0.036	J	0.018	0.062	1	0.17	J	0.017	0.059	1	0.14	J	0.017	0.06	1	0.33	0.016	0.054	1 1
Tert-Butyl Methyl Ether	1634-04-4	1.4	mg/kg	0.00039	J	0.00019	0.0019	1	ND	U	0.012	0.12	1	ND	U	0.012	0.12	1	ND U	0.011	0.11	1
Toluene	108-88-3	44	mg/kg	0.034	J	0.034	0.062	1	0.043	J	0.032	0.059	1	0.057	J	0.032	0.06	1	0.11 J	0.03	0.054	1 1
Total Xylenes	1330-20-7	990	mg/kg	0.26	J	0.018	0.062	1	4.4	J	0.017	0.059	1	0.78	J	0.017	0.06	1	2.2 J	0.016	0.054	1 1
Semi-Volatile Organic Compounds																						
Anthracene	120-12-7	NS	mg/kg	0.67		0.19	0.57	5	1.1		0.18	0.56	5	0.37	J	0.038	0.12	1	0.048	0.037	0.11	1
Benzo(a)anthracene	56-55-3	NS	mg/kg	0.22	J	0.11	0.57	5	0.29	J	0.1	0.56	5	0.29	J	0.022	0.12	1	0.026 J	0.021	0.11	1
Benzo(a)pyrene	50-32-8	NS	mg/kg	ND	U	0.23	0.76	5	ND	U	0.23	0.75	5	0.14	J	0.047	0.15	1	ND L	0.046	0.15	, 1
Benzo(b)fluoranthene	205-99-2	NS	mg/kg	ND	U	0.16	0.57	5	0.2	J	0.16	0.56	5	0.16		0.032	0.12	1	ND L	0.032	0.11	1
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg	ND	U	0.11	0.76	5	0.14	J	0.11	0.75	5	0.079	J	0.023	0.15	1	ND L	0.022	0.15	1
Chrysene	218-01-9	NS	mg/kg	0.42	J	0.1	0.57	5	0.5	J	0.097	0.56	5	0.43	J	0.02	0.12	1	0.069 J	0.02	0.11	1
Fluorene	86-73-7	NS	mg/kg	2.8		0.093	0.96	5	4.7		0.091	0.93	5	1.5	J	0.019	0.19	1	0.24 J	0.018	0.19	1
Phenanthrene	85-01-8	NS	mg/kg	6.1		0.12	0.57	5	9.8		0.11	0.56	5	2.8	J	0.023	0.12	1	0.62 J	0.023	0.11	1
Pyrene	129-00-0	NS	mg/kg	0.78		0.095	0.57	5	1.2		0.093	0.56	5	0.63	J	0.019	0.12	1	0.064 J	0.019	0.11	1
Metals																						
Lead	7439-92-1	NS	mg/kg	24.4		0.119	2.22	1	9.96		0.114	2.14	1	25.3		0.121	2.26	1	42.1	0.118	2.21	1
General Chemistry																						
Solids, Percent	SOLID	NS	Percent	86.7		0	0	1	88.7		0	0	1	84.7		0	0	1]	87.5	0	0	1

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			AOC				0623	INCIDE	NT 1 AREA	. 1	0623	INCII	ENT	1 AREA	4	06	23 II	NCIDENT '	I AREA	
		PADEP Act 2 Non-	Location		PEB-F				PEE		_			EB-I		-			PEB-J	
		Residential Soil		DED	4.5-5.0	071422		DED		5.0 071423		DEE			071423		В	ED	6.0-6.5	71422
Analyte	CAS	Statewide Health	Sample Name					PED				PEC	_				F			
Analyte	Number	Standard Vapor	Sample Date		07/14/202	23			07/14					4/202	23				07/14/202	3
		Intrusion Screening	Sample Depth		4.5-5				4.5	-5			4	.5-5					6-6.5	
		Values	Saturation	Ų	Jnsaturat	ed			Unsatı	ırated			Unsa	turat	ed				Jnsaturate	
			Unit	Result Q	MDL	RL	DF	Result	Q MD	L RL	DF	Result	Q N	1DL	RL	DF	Result	Q	MDL	RL DF
Volatile Organic Compounds															,					
1,2,4-Trimethylbenzene	95-63-6	300	mg/kg	1.1	0.019	0.11	1		J 0.03		1	1.9	_	017	0.1	1	0.075	J	0.03	0.18 1
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0013	mg/kg	ND U	0.016	0.028	1	ND	U 0.02		1	ND	U 0.	015	0.026	_	ND	U	0.00038	0.00064 1
1,2-Dichloroethane	107-06-2	0.1	mg/kg	ND U	0.014	0.056	1	ND	U 0.02		1	ND	_	013	0.052	1	ND	U	0.023	0.088 1
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	93	mg/kg	0.23	0.011	0.11	1	0.82	J 0.01	-	1	0.58		.01	0.1	1	0.017	J	0.017	0.18 1
Benzene	71-43-2	0.13	mg/kg	0.017 J	0.0094	0.028	1	0.18	J 0.01		1	0.21		086	0.026	_	0.19		0.015	0.044 1
Ethylbenzene	100-41-4	46	mg/kg	2.7	0.008	0.056	1	0.49	J 0.01		1	1.3	J 0.0	0073	0.052	_	0.12		0.012	0.088 1
Isopropylbenzene (Cumene)	98-82-8	2500	mg/kg	2.3	0.0062	0.056	1	1.2	J 0.01	1 0.098	1	2.6		0056	0.052	1	2.8		0.0096	0.088 1
M,P-Xylene	179601-23-1	NS	mg/kg	0.23	0.032	0.11	1	0.82	J 0.05		1	1.6	J 0.	029	0.1	1	0.12	J	0.05	0.18 1
Naphthalene	91-20-3	25	mg/kg	0.48	0.037	0.23	1	2.1	J 0.06		1	0.85		034	0.21	1	0.3	J	0.058	0.35 1
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	0.042 J	0.016	0.056	1	0.15	J 0.02		1	0.46		015	0.052	1	0.03	J	0.026	0.088 1
Tert-Butyl Methyl Ether	1634-04-4	1.4	mg/kg	ND U		0.11	1	ND	U 0.0		1	ND		.01	0.1	1	0.00045	J	0.00026	0.0026 1
Toluene	108-88-3	44	mg/kg	ND U	0.031	0.056	1	0.087	J 0.05	3 0.098	1	0.13	J 0.	028	0.052	1	0.068	J	0.048	0.088 1
Total Xylenes	1330-20-7	990	mg/kg	0.27 J	0.016	0.056	1	0.97	J 0.02	8 0.098	1	2.1	J 0.	015	0.052	1	0.15	J	0.026	0.088 1
Semi-Volatile Organic Compounds																				
Anthracene	120-12-7	NS	mg/kg	0.098 J	0.04	0.12	1		U 0.04		1		U 0.	038	0.12	1	0.096	J	0.038	0.12 1
Benzo(a)anthracene	56-55-3	NS	mg/kg	0.13	0.023	0.12	1	ND	U 0.02	5 0.13	1	ND	U 0.	022	0.12	1	0.056	J	0.022	0.12 1
Benzo(a)pyrene	50-32-8	NS	mg/kg	0.055 J	0.05	0.16	1	ND	U 0.05	0.18	1		U 0.	048	0.16	1	ND	U	0.048	0.16 1
Benzo(b)fluoranthene	205-99-2	NS	mg/kg	0.071 J	0.034	0.12	1		U 0.03	7 0.13	1	ND	U 0.	033	0.12	1	ND	U	0.033	0.12 1
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg	ND U	0.024	0.16	1	ND	U 0.02	0.18	1	ND	U 0.	023	0.16	1	ND	U	0.023	0.16 1
Chrysene	218-01-9	NS	mg/kg	0.16	0.021	0.12	1	0.045	J 0.02		1	0.045	J O	.02	0.12	1	0.15		0.02	0.12 1
Fluorene	86-73-7	NS	mg/kg	0.32	0.02	0.2	1	0.26	0.02	1 0.22	1	0.11	J 0.	019	0.2	1	0.6		0.019	0.2 1
Phenanthrene	85-01-8	NS	mg/kg	0.84	0.025	0.12	1	0.49	0.02	7 0.13	1	0.26	0.	024	0.12	1	1.7		0.024	0.12 1
Pyrene	129-00-0	NS	mg/kg	0.33	0.02	0.12	1	0.041	J 0.02	2 0.13	1	0.044	J O	.02	0.12	1	0.13		0.019	0.12 1
Metals																				
Lead	7439-92-1	NS	mg/kg	57.1	0.13	2.44	1	9.83	0.13	2.5	1	46.5	0.	122	2.27	1	7.4		0.121	2.26 1
General Chemistry																				
Solids, Percent	SOLID	NS	Percent	80.6	0	0	1	75.2	0	0	1	84.6		0	0	1	84.1		0	0 1

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		PADEP Act 2 Non-	AOC	0623	INCIDEN	Γ1 AREA	ı	06	23 II	NCIDENT 1	AREA		0623	INC	IDENT	1 ARE	Α	0623	INCIDEN	T 1 AREA
			Location		PES-A					PES-E				ı	PES-G				PES-I	(
	242	Residential Soil	Sample Name	PES-	-A_4.2-4.7	071423		Р	ES-E	5.2-5.7_0	71423		PES	-G_1	1.7-2.2	07142	3	PES-	K_3.1-3.0	071423
Analyte	CAS	Statewide Health	Sample Date		07/14/20)23			(07/14/2023	3			07/	/14/20	23			07/14/2	023
•	Number	Standard Vapor Intrusion Screening	Sample Depth		4.2-4.7	,				5.2-5.7				•	1.7-2.2				3.1-3.	6
		Values	Saturation		Unsatura	ted			L	Jnsaturate	d			Uns	saturat	ed			Unsatura	ated
		values	Unit		Q MDL		DF	Result	Q			DF	Result				DF	Result C		RL D
Volatile Organic Compounds			J.III	Hoodit	Q IVIDE	112	<u> </u>	riodait	ų.	IVIDE	112	<u> </u>	Hoodit	Q.	14102	- 112		Hoodit	IVIDE	112
1,2,4-Trimethylbenzene	95-63-6	300	mg/kg	12	J 0.021	0.13	1	0.052	J	0.019	0.11	1	0.39	J	0.099	0.59	5	0.1	0.021	0.13
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0013	mg/kg	ND	U 0.019	0.032	1	ND	U	0.00031	0.00052	1	ND	U	0.086	0.15		ND L	0.018	
1,2-Dichloroethane	107-06-2	0.1	mg/kg	ND	U 0.016	0.064	1	ND	U	0.015	0.057	1	ND	U	0.076	0.3	5	ND L	0.016	0.063
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	93	mg/kg	1	J 0.012	0.13	1	0.00031	J	0.0002	0.0021	1	0.42	J	0.057	0.59	5	0.046 J	0.012	
Benzene	71-43-2	0.13	mg/kg	0.073	J 0.011	0.032	1	0.038		0.0094	0.028	1	0.11	J	0.049	0.15	5	ND U	0.01	0.032
Ethylbenzene	100-41-4	46	mg/kg	7.6	J 0.009	0.064	1	0.089		0.008	0.057	1	13	J	0.042	0.3	5	0.053 J	0.0089	0.063
Isopropylbenzene (Cumene)	98-82-8	2500	mg/kg	4.4	J 0.007	0.064	1	1.5		0.0062	0.057	1	27	J	0.032	0.3	5	4.5 J	0.0069	0.063
M,P-Xylene	179601-23-1	NS	mg/kg	2.7	J 0.036	0.13	1	0.0025	J	0.00058	0.0021	1	0.66	J	0.16	0.59	5	0.17 J	0.035	0.13
Naphthalene	91-20-3	25	mg/kg	4.2	J 0.042	0.26	1	0.13	J	0.037	0.23	1	1.3	J	0.19	1.2	5	0.38 J	0.041	0.25
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	0.072	J 0.019	0.064	1	0.0046	J	0.0003	0.001	1	0.27	J	0.086	0.3	5	0.057 J	0.018	0.063
Tert-Butyl Methyl Ether	1634-04-4	1.4	mg/kg	ND	U 0.013	0.13	1	0.11		0.011	0.11	1	ND	U	0.059	0.59	5	ND L	0.013	0.13
Toluene	108-88-3	44	mg/kg	0.036	J 0.035	0.064	1	0.0024	J	0.00057	0.001	1	0.39	J	0.16	0.3	5	0.038	0.034	0.063
Total Xylenes	1330-20-7	990	mg/kg	2.8	J 0.019	0.064	1	0.0071	J	0.0003	0.001	1	0.93	J	0.086	0.3	5	0.23 J	0.018	0.063
Semi-Volatile Organic Compounds																				
Anthracene	120-12-7	NS	mg/kg	ND	U 0.041	0.13	1	0.041	J	0.04	0.12	1	0.15		0.038	0.12	1	ND L		0.12
Benzo(a)anthracene	56-55-3	NS	mg/kg	ND	U 0.024	0.13	1	ND	U	0.023	0.12	1	ND	U	0.022	0.12	1	ND L	0.022	0.12
Benzo(a)pyrene	50-32-8	NS	mg/kg	ND	U 0.051	0.17	1	ND	U	0.05	0.16	1	ND	U	0.048	0.16	1	ND L	0.049	0.16
Benzo(b)fluoranthene	205-99-2	NS	mg/kg	ND	U 0.035	0.13	1	ND	U	0.034	0.12	1	ND	U	0.033	0.12	1	ND L	0.034	0.12
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg	ND	U 0.025	0.17	1	ND	U	0.024	0.16	1	ND	U	0.023	0.16	1	ND L	0.023	0.16
Chrysene	218-01-9	NS	mg/kg	0.033	J 0.022	0.13	1	0.058	J	0.021	0.12	1	ND	U	0.02	0.12	1	0.04 J	0.021	0.12
Fluorene	86-73-7	NS	mg/kg	0.11	J 0.02	0.21	1	0.26		0.02	0.2	1	1.1		0.019	0.2	1	0.1 J	0.019	0.2
Phenanthrene	85-01-8	NS	mg/kg	0.32	0.026	0.13	1	0.69		0.025	0.12	1	2.5		0.024	0.12	1	0.27	0.024	0.12
Pyrene	129-00-0	NS	mg/kg	0.026	J 0.021	0.13	1	0.051	J	0.02	0.12	1	0.14		0.02	0.12	1	0.027 J	0.02	0.12
Metals																				
Lead	7439-92-1	NS	mg/kg	7.24	0.129	2.41	1	7.04		0.129	2.4	1	6.99		0.123	2.3	1	14.2	0.125	2.32
General Chemistry																				
Solids, Percent	SOLID	NS	Percent	78.4	0	0	1	80		0	0	1	84.3		0	0	1	82.7	0	0

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	Phila	del	phia	, PA
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		PADEP Act 2 Non-	AOC Location	0623	INCIDENT PES-L	1 AREA	1	0623		PES-M	1 AREA		062	2223 INCID PEB-28			0	62223 INC PEB-2		
		Residential Soil		DEC		074400		DEC			074400		DED		•		DE			
Analysis	CAS	Statewide Health	Sample Name	PES	-L_3.1-3.6_			PES		1.0-1.5_			PEB-	2B_5.0-5.5			PEI	3-2C_5.0-5	_	<u> </u>
Analyte	Number	Standard Vapor	Sample Date		07/14/202	23			07	/14/202	23			08/15/20	23			08/15/2		
		Intrusion Screening	Sample Depth		3.1-3.6					1-1.5				5-5.5				5-5.	5	
		Values	Saturation		Unsaturat	ed			Un	saturate				Unsatura	ted			Unsatur	ated	
			Unit	Result	2 MDL	RL	DF	Result	Q	MDL	RL	DF	Result Q	MDL	RL	DF	Result C	MDL	RL	D
Volatile Organic Compounds																				
1,2,4-Trimethylbenzene	95-63-6	300	mg/kg	0.058	J 0.017	0.1	1	0.088		0.019	0.11	1	NA				NA			
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0013	mg/kg		J 0.014	0.025	1	ND	U	0.017	0.028	1	ND U	0.00025	0.0006	1	ND U	0.00025	0.00059	9 1
1,2-Dichloroethane	107-06-2	0.1	mg/kg		J 0.013	0.05	1	ND	U	0.015	0.057	1	NA				NA			
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	93	mg/kg	0.017	J 0.0096	0.1	1	0.11	J	0.011	0.11	1	NA				NA			
Benzene	71-43-2	0.13	mg/kg		J 0.0083	0.025	1	0.05		0.0095	0.028	1	NA				NA			
Ethylbenzene	100-41-4	46	mg/kg	0.031	J 0.007	0.05	1	0.23	J (0.0081	0.057	1	NA				NA			
Isopropylbenzene (Cumene)	98-82-8	2500	mg/kg	2.6	J 0.0054	0.05	1	5.1		0.0062	0.057	1	NA				NA			
M,P-Xylene	179601-23-1	NS	mg/kg	0.036	J 0.028	0.1	1	0.4		0.032	0.11	1	NA				NA			
Naphthalene	91-20-3	25	mg/kg	0.23	J 0.032	0.2	1	0.49		0.037	0.23	1	NA				NA			
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	0.022	J 0.014	0.05	1	0.16		0.017	0.057	1	NA				NA			
Tert-Butyl Methyl Ether	1634-04-4	1.4	mg/kg		J 0.01	0.1	1	ND	U	0.011	0.11	1	NA				NA			
Toluene	108-88-3	44	mg/kg		J 0.027	0.05	1	0.079		0.031	0.057	1	NA				NA			
Total Xylenes	1330-20-7	990	mg/kg	0.058	J 0.014	0.05	1	0.56	J	0.017	0.057	1	NA				NA			
Semi-Volatile Organic Compounds																				
Anthracene	120-12-7	NS	mg/kg	0.077	J 0.039	0.12	1	0.099		0.038	0.12	1	NA				NA			
Benzo(a)anthracene	56-55-3	NS	mg/kg	0.024	J 0.022	0.12	1	0.055		0.022	0.12	1	NA				NA			
Benzo(a)pyrene	50-32-8	NS	mg/kg		J 0.049	0.16	1	ND		0.048	0.16	1	NA				NA			
Benzo(b)fluoranthene	205-99-2	NS	mg/kg		J 0.034	0.12	1	ND		0.033	0.12	1	NA				NA			_
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg		J 0.023	0.16	1	ND	U	0.023	0.16	1	NA				NA			_
Chrysene	218-01-9	NS	mg/kg	0.076	J 0.021	0.12	1	0.15		0.02	0.12	1	NA				NA			
Fluorene	86-73-7	NS	mg/kg	0.27	0.019	0.2	1	0.88		0.019	0.2	1	NA				NA			
Phenanthrene	85-01-8	NS	mg/kg	0.78	0.024	0.12	1	1.8		0.024	0.12	1	NA				NA		1	
Pyrene	129-00-0	NS	mg/kg	0.088	J 0.02	0.12	1	0.14		0.02	0.12	1	NA				NA			\bot
Metals	T	T								-										
Lead	7439-92-1	NS	mg/kg	7.4	0.125	2.34	1	30.4	J	0.127	2.37	1	NA				NA			
General Chemistry	T	T					, ,									1				4
Solids, Percent	SOLID	NS	Percent	82.9	0	0	1	82.7		0	0	1	NA				NA			

Philadelphia,	PΑ
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	1		AOC	0.0	52223 INCIE	DENT 1	061	2223 INCID	ENIT 1		04	2223 INCII	DENIT 1	1	06	2223 INCI	DENT 1
		PADEP Act 2 Non-		- 00	PEB-20		002	PEB-2D			- 00	PEB-2I			- 00	PEB-2	
		Residential Soil	Location														= '='
	CAS	Statewide Health	Sample Name	PEB	3-2D_5.0-5.5	_	l	DUP-1_081			PEE	3-2F_5.0-5.5	_		PEB	-2H_5.0-5.	_
Analyte	Number	Standard Vapor	Sample Date		08/15/20)23		08/15/20	23			08/15/20)23			08/15/2)23
		Intrusion Screening	Sample Depth		5-5.5			5-5.5				5-5.5				5-5.5	
		Values	Saturation		Unsatura	ted		Unsatura	ted			Unsatura	ted			Unsatura	ted
			Unit	Result Q	MDL	RL	DF Result Q	MDL	RL	DF	Result Q	MDL	RL	DF F	Result Q	MDL	RL DF
Volatile Organic Compounds																	
1,2,4-Trimethylbenzene	95-63-6	300	mg/kg	NA			NA				NA				NA		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0013	mg/kg	ND U	0.00025	0.00061	1 ND U	0.00025	0.0006	1	ND U	0.00026	0.00062	1	ND U	0.00024	0.00058 1
1,2-Dichloroethane	107-06-2	0.1	mg/kg	NA			NA				NA				NA		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	93	mg/kg	NA			NA				NA				NA		
Benzene	71-43-2	0.13	mg/kg	NA			NA				NA				NA		
Ethylbenzene	100-41-4	46	mg/kg	NA			NA				NA				NA		
Isopropylbenzene (Cumene)	98-82-8	2500	mg/kg	NA			NA				NA				NA		
M,P-Xylene	179601-23-1	NS	mg/kg	NA			NA				NA				NA		
Naphthalene	91-20-3	25	mg/kg	NA			NA				NA				NA		
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	NA			NA				NA				NA		
Tert-Butyl Methyl Ether	1634-04-4	1.4	mg/kg	NA			NA				NA				NA		
Toluene	108-88-3	44	mg/kg	NA			NA				NA				NA		
Total Xylenes	1330-20-7	990	mg/kg	NA			NA				NA				NA		
Semi-Volatile Organic Compounds																	
Anthracene	120-12-7	NS	mg/kg	NA			NA				NA				NA		
Benzo(a)anthracene	56-55-3	NS	mg/kg	NA			NA				NA				NA		
Benzo(a)pyrene	50-32-8	NS	mg/kg	NA			NA				NA				NA		
Benzo(b)fluoranthene	205-99-2	NS	mg/kg	NA			NA				NA				NA		
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg	NA			NA				NA				NA		
Chrysene	218-01-9	NS	mg/kg	NA			NA				NA				NA		
Fluorene	86-73-7	NS	mg/kg	NA			NA				NA				NA		
Phenanthrene	85-01-8	NS	mg/kg	NA			NA				NA				NA		
Pyrene	129-00-0	NS	mg/kg	NA			NA				NA				NA		
Metals																	
Lead	7439-92-1	NS	mg/kg	NA			NA				NA				NA		
General Chemistry																	
Solids, Percent	SOLID	NS	Percent	NA			NA				NA				NA		

Philadelphia, PA

	1		100		000000	INIOID	FRIT 4			20000 1	INIOIDE	NIT 4			2223 INC	IDENIT 4			20000 INIO	DENT 4	
		PADEP Act 2 Non-	AOC		062223		ENI 1			62223 I		NI 1		06				0	62223 INC		
		Residential Soil	Location		-	PEB-2I					EB-2J				PES-2				PES-2		
	CAS	Statewide Health	Sample Name	P	PEB-2I_5		•		PE	B-2J_6.				PES.		.7_081523	3	PES	S-2E_5.2-5	_	;
Analyte	Number	Standard Vapor	Sample Date		08/	15/202	23			08/1	15/2023	3			08/15/2	2023			08/15/2	023	
	110	Intrusion Screening	Sample Depth			5-5.5				6	6.5-7				4.2-4	.7			5.2-5	7	
		Values	Saturation		Uns	aturat	ed			Unsa	aturate	d			Unsatu	ated			Unsatur	ated	
			Unit	Result	Q M	DL	RL	DF	Result () ME	DL	RL	DF Resu	It Q	MDL	RL	DF	Result C	MDL	RL	DF
Volatile Organic Compounds																					
1,2,4-Trimethylbenzene	95-63-6	300	mg/kg	NA					NA				NA					NA			
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0013	mg/kg	ND	U 0.00	0024	0.00056	1	ND U	0.00	026	0.00061	1 ND	U	0.00025	0.0005	9 1		0.00027	0.00064	4 1
1,2-Dichloroethane	107-06-2	0.1	mg/kg	NA					NA				NA					NA			
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	93	mg/kg	NA					NA				NA					NA			
Benzene	71-43-2	0.13	mg/kg	NA					NA				NA					NA			
Ethylbenzene	100-41-4	46	mg/kg	NA					NA				NA					NA			
Isopropylbenzene (Cumene)	98-82-8	2500	mg/kg	NA					NA				NA					NA			
M,P-Xylene	179601-23-1	NS	mg/kg	NA					NA				NA					NA			
Naphthalene	91-20-3	25	mg/kg	NA					NA				NA					NA			
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	NA					NA				NA					NA			
Tert-Butyl Methyl Ether	1634-04-4	1.4	mg/kg	NA					NA				NA					NA			
Toluene	108-88-3	44	mg/kg	NA					NA				NA					NA			
Total Xylenes	1330-20-7	990	mg/kg	NA					NA				NA					NA			
Semi-Volatile Organic Compounds																					
Anthracene	120-12-7	NS	mg/kg	NA					NA				NA					NA			
Benzo(a)anthracene	56-55-3	NS	mg/kg	NA					NA				NA					NA			
Benzo(a)pyrene	50-32-8	NS	mg/kg	NA					NA				NA					NA			
Benzo(b)fluoranthene	205-99-2	NS	mg/kg	NA					NA				NA					NA			
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg	NA					NA				NA					NA			
Chrysene	218-01-9	NS	mg/kg	NA					NA				NA					NA			
Fluorene	86-73-7	NS	mg/kg	NA					NA				NA					NA			
Phenanthrene	85-01-8	NS	mg/kg	NA					NA				NA					NA			
Pyrene	129-00-0	NS	mg/kg	NA					NA				NA					NA			
Metals																					
Lead	7439-92-1	NS	mg/kg	NA					NA				NA					NA			
General Chemistry																					
Solids, Percent	SOLID	NS	Percent	NA					NA				NA					NA			

Philadelphia, PA

			AOC	062223 INCIDENT 1			062	223 INCIE	DENT 1		06	52223 INCII	DENT 1		06	52223 INC	DENT 1	\neg
		PADEP Act 2 Non-	Location		PES-20			PES-2k				PES-2				PES-2		
		Residential Soil	Sample Name	PF	S-2G 1.7-2.		PES-	2K 3.1-3.6	-		PES	6-2L 3.1-3.6	_		PES		.5 081523	
Analyte	CAS	Statewide Health	•		08/15/20	_	1 20-7	08/15/20				08/15/20	_		1 20	08/15/2		
Analyte	Number	Standard Vapor	Sample Date															
		Intrusion Screening	Sample Depth		1.7-2.2			3.1-3.6				3.1-3.6				1-1.5	-	
		Values	Saturation		Unsatura			Unsatura				Unsatura				Unsatur		
			Unit	Result C	MDL	RL	DF Result Q	MDL	RL	DF	Result Q	MDL	RL	DF	Result Q	MDL	RL	DF
Volatile Organic Compounds									1									
1,2,4-Trimethylbenzene	95-63-6	300	mg/kg	NA			NA				NA				NA			\sqcup
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0013	mg/kg	ND U	J 0.00025	0.00058	1 ND U	0.00025	0.0006	1	ND U	0.00024	0.00057	1		0.00027	0.00064	1
1,2-Dichloroethane	107-06-2	0.1	mg/kg	NA			NA				NA				NA			
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	93	mg/kg	NA			NA				NA				NA			<u> </u>
Benzene	71-43-2	0.13	mg/kg	NA			NA				NA				NA			<u> </u>
Ethylbenzene	100-41-4	46	mg/kg	NA			NA				NA				NA			<u> </u>
Isopropylbenzene (Cumene)	98-82-8	2500	mg/kg	NA			NA				NA				NA			<u> </u>
M,P-Xylene	179601-23-1	NS	mg/kg	NA			NA				NA				NA			<u> </u>
Naphthalene	91-20-3	25	mg/kg	NA			NA				NA				NA			<u> </u>
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	NA			NA				NA				NA			<u> </u>
Tert-Butyl Methyl Ether	1634-04-4	1.4	mg/kg	NA			NA				NA				NA			L
Toluene	108-88-3	44	mg/kg	NA			NA				NA				NA			
Total Xylenes	1330-20-7	990	mg/kg	NA			NA				NA				NA			
Semi-Volatile Organic Compounds									1							1		
Anthracene	120-12-7	NS	mg/kg	NA			NA				NA				NA			
Benzo(a)anthracene	56-55-3	NS	mg/kg	NA			NA				NA				NA			L
Benzo(a)pyrene	50-32-8	NS	mg/kg	NA			NA				NA				NA			
Benzo(b)fluoranthene	205-99-2	NS	mg/kg	NA			NA				NA				NA			
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg	NA			NA				NA				NA			
Chrysene	218-01-9	NS	mg/kg	NA			NA				NA				NA			
Fluorene	86-73-7	NS	mg/kg	NA			NA				NA				NA			
Phenanthrene	85-01-8	NS	mg/kg	NA			NA				NA				NA		_	
Pyrene	129-00-0	NS	mg/kg	NA			NA				NA				NA			
Metals																		
Lead	7439-92-1	NS	mg/kg	NA			NA				NA				NA			
General Chemistry																		
Solids, Percent	SOLID	NS	Percent	NA			NA				NA				NA			1

Table 4

Summary of Soil Results - Vapor Intrusion Screening Post-Excavation Sampling Event Bellwether District Holdings, LLC. Philadelphia, PA

Notes:

Sample Nomenclature: PES-A_4.2-4.7_071423 - Post-Excavation Side Sample, Sample ID, Depth, and Sample Date Sample Nomenclature: PEB-B_4.5-5.0_071423 - Post-Excavation Bottom Sample, Sample ID, Depth, and Sample Date

Soil samples were compared to the PADEP MSCs (November 2021) PADEP - Pennsylvania Department of Environmental Protection

MSC - Medium Specific Concentrations

TDS - Total Dissolved Solids

CAS - Chemical Abstract Service

NS - No standard

mg/kg - Milligrams per kilogram

ND - Not detected

Q - Qualifier

MDL - Method detection limit

RL - Reporting Limit

DF - Dilution factor

Samples collected on 8/15/2023 are re-sampled locations to achieve proper detection limits for EDB in samples originally collected on 7/14/2023.

Qualifiers:

- J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

- 10 Result exceeds PADEP Act 2 Non-Residential Soil Statewide Health Standard Vapor Intrusion Screening Values
- 10 MDL or RL greater than the applicable standard

The Philadelphia Inquirer

100 S. INDEPENDENCE MALL W, STE 600, PHILADELPHIA, PA 19106

Affidavit of Publication

On Behalf of: LANGAN 1818 Market St Suite 3300 PHILADELPHIA, PA 19103

STATE OF PENNSYLVANIA COUNTY OF PHILADELPHIA:

Before the undersigned authority personally appeared the undersigned who, on oath represented a and say; that I am an employee of The Philadelphia Inquirer, LLC, and am authorized to make this affidavit of publication, and being duly sworn, I depose and say:

- 1. The Philadelphia Inquirer, LLC is the publisher of the Philadelphia Inquirer, with its headquarters at 100 S. Independence Mall West, Suite 600, Philadelphia, PA 19106.
- 2. The Philadelphia Inquirer is a newspaper that which was established in in the year 1829, since which date said daily newspaper has been continuously published and distributed daily in the City of Philadelphia, count and state aforesaid.
- 3. The printed notice or publication attached hereto set forth on attached hereto was published in all regular print editions of The Philadelphia Inquirer on

There Successy Nancy S. Fisher

Legal Notices

as published in Inquirer Legals in the issue(s) of:

4/12/2024

4. Under oath, I state that the following is true and correct, and that neither I nor The Philadelphia Inquirer, LLC have any is interest in the subject matter of the aforesaid notice or advertisement.

Notary Public

My Commission Expires:

Commonwealth of Pennsylvania - Notary Seal Nancy S Fisher, Notary Public Philadelphia County My Commission Expires June 27, 2027 Commission Number 1433937

Ad No: 161245 Customer No: 110234

COPY OF ADVERTISEMENT

Notice of an Intent
to Remediate to an Environmental Standard
(Section 304(n)(2)(i))
(Sections 302(e)(1)(ii), 303(h)(1)(ii),
304(n)(1)(i), and 305(c)(1))
Pursuant to the Land Recycling and
Environmental Remediation Standards Act, the
act of May 19, 1995, P.L. 4, No. 1995-2, notice is
hereby given that Philadelphia Energy Solutions
Refining and Marketing LLC will submit to the
Pennsylvania Department of Environmental
Protection a Notice of Intent to Remediate a site
located at 3144 West Passyunk Avenue,
Philadelphia, PA. This Notice of Intent to
Remediate states the site is Right-of-Way 3
(ROW-3) Release on 6/22/23 Area at the Former
Philadelphia Energy Solutions Refinery. The site
remediated to Statewide Health Standards
pertains to petroleum-impacted soils related to a
limited-area release of petroleum products.
Philadelphia Energy Solutions Refining and
Marketing LLC has indicated that the remediation
measures consisted of soil excavation. The site
will be used for non-residential
commercial/industrial use.



April 17, 2024

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Leigh Anne Rainford Environmental Health Services 7801 Essington Avenue, 2nd Floor Philadelphia, PA 19153

RE: Notice of Intent to Remediate

Right-of-Way 3 (ROW-3) Release on 6/22/23 Area The Bellwether District Redevelopment Project aka Former Philadelphia Energy Solutions (PES) Refinery

3144 West Passyunk Avenue Philadelphia, Pennsylvania

Dear Ms. Rainford:

The Land Recycling and Environmental Remediation Standards Act (Act 2) requires that a Notice of Intent to Remediate (NIR) be provided to the municipality in which the site is located. In accordance with this provision of Act 2, Langan Engineering and Environmental Services, Inc. (Langan) on behalf of Philadelphia Energy Solutions Refining and Marketing LLC (PESRM), is formally notifying you of PESRM's intent to remediate the ROW-3 Release on 6/22/23 Area of the Former Philadelphia Energy Solutions Refinery Property (site). A copy of the NIR form, which will be sent to the Department of Environmental Protection (DEP), is enclosed. The following notice will be published in the Pennsylvania Bulletin, and a summary of the notice has been published in a local newspaper, proof of publication is attached.

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1995, P.L. 4, No. 1995-2, notice is hereby given that Philadelphia Energy Solutions Refining and Marketing LLC will submit to the Pennsylvania Department of Environmental Protection a Notice of Intent to Remediate a site located at 3144 West Passyunk Avenue, Philadelphia, PA. This Notice of Intent to Remediate states the site is Right-of-Way 3 (ROW-3) Release on 6/22/23 Area at the Former Philadelphia Energy Solutions Refinery. The site remediated to Statewide Health Standards pertains to petroleum-impacted soils

related to a limited-area release of petroleum products. Philadelphia Energy Solutions Refining and Marketing LLC has indicated that the remediation measures consisted of soil excavation. The site will be used for non-residential commercial/industrial use.

If you have any questions concerning the proposed remediation you may contact Adam Goldberg at (215) 845-8946.

Sincerely,

Langan Engineering & Environmental Services, Inc.

Adam Goldberg, LSRP Senior Project Manager

enclosures:

Notice of Intent to Remediate Form Draft of Newspaper Publication

CC.

Amy Piccone – PESRM
Julianna Connolly – PESRM
Jason Hanna, CHMM – Langan
Cortney Savidge ,CHMM - Langan
Jeff Smith, PG – Langan
C. David Brown, PG – PADEP



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

NOTICE OF INTENT TO REMEDIATE

For DEP Use Only
PF #
Rem ID #

			· · · · · · · · · · · · · · · · · · ·
Date: 4/10/2024	NIR Status:	⊠ New	Revised
Act 1995-2 requires four general information ite contaminants, intended use of property, and propose obtained and attach a scaled site map (if available of a revised NIR, a new public notice, and a new (**) or (††) indicate when a new NIR and new public for any significant changes to the initial NIR submiss added or removed, change of standards from site-being investigated, or change of any contact information.	osed remediation meable). Certain project at notification to the mublic and municipal not sion, including the cha specific to background	asures. In ado mendments or inicipality. Ch ices are need nge of future u	dition, indicate the standard(s) to changes will require submission anges to information marked by ed. DEP should also be notified use of the property, contaminants
Property Name Right-of-Way- 3 (ROW-3) Release	e on 6/22/23 Area	<u> </u>	
Former Name(s)/AKA <u>Former Philadelphia Energ</u> y	/ Solutions Refinery	<u> </u>	
Address/Location <u>3144 West Passyunk Avenue</u>			
City Philadelphia	Zip Code <u>191</u> 4	15	
**Municipality(s) <u>Philadelphia</u>		County(ies) <u>P</u>	hiladelphia
Tax Parcel ID# (if known)			
Latitude <u>39</u> ° (deg). <u>54</u> ' (min) <u>48.8</u> "	(sec)		
Longitude <u>75</u> ° (deg). <u>11</u> ' (min) <u>51.9</u> "	(sec)		
Horizontal Collection Method Geographic Informat	tion Systems		
Horizontal Reference Datum NAD83		Reference Po	int <u>See attached Figure 1.</u>
☐ **Wish to participate in the DEP/EPA One Clea	nup Program.		
Contact the Land Recycling Program Manager for	details at <u>landrecycli</u>	ng@pa.gov.	
EPA ID#, if known			
DEP ID#(s), if known <u>51-33620</u>			
(i.e., eFACTs primary facility ID#, storage tank fac	ility ID#, water quality	permit #, etc.)
Date Release Occurred (if known) June 22, 2023			
Date each municipality was notified of any plan or Philadelphia Department of Public Health, 4/10/20	•	er any remedi	ation standard
Place the newspaper name and date that your not The Phildelphia Inquirer, to be published on 4		rt submissior	n was published

^{**} A change in municipality, the addition of a new municipality, or deciding to participate in the DEP/EPA One Cleanup Program requires a new NIR to be submitted with new public and municipal notifications.

Contamination, Land Usage, and Proposed Remediation Section

Provide a brief description of the site contamination, to the extent known, in plain language (e.g., fuel oil spill, historical chemical industrial area, etc.), the current and intended future use of the property in the box below.

During removal of subgrade was estimated by Langan spilled to the ground surface contained, controlled, and excavated, staged, and the addressed are petroleur commercial/industrial.	to be 40 gallons of the of Right-of-Way defined removed, and 3 ransported off sit	of a petroleum 3 (ROW-3) on 6/2 0 cubic yards (te for disposal.	product and 8 of 22/23. Liquids f (CY) of visually The primary	gallons of water was rom this release were y impacted soil was contaminants to be
commerciai/mdustriai.				

Provide a general description of proposed remediation measures.

Remediation will be direct excavation and off-site disposal of soil and collection of post-excavation samples to verify compliance with non-residential statewide health standards. Samples will be tested for the Philadelphia Refinery Target Compound list agreed upon with the PADEP.

Standards Selection Section

Check all the boxes that apply for the appropriate contaminant groups according to the standard(s) and media of the remediation to be performed.

NOTE: Either the site-specific standard or a special industrial area requires a 30-day public and municipal comment period.

Contaminant Groups	Background		Statewide Health- Residential Non-Reside			††Site-Specific Standard		^{††} Special Industrial Area		
	Soil	GW	Soil	GW	Soil	GW	Soil	GW	Soil	GW
Aviation Gasoline										
Diesel Fuel										
Fuel Oil No. 1										
Fuel Oil No. 2										
Fuel Oil No. 4										
Fuel Oil No. 5										
Fuel Oil No. 6										
Kerosene										
Jet Fuel										
Leaded Gasoline										
New Motor Oil										
Unleaded Gasoline										
Used Motor Oil										
Chlorinated Solvents										
Inorganics										
Lead					\boxtimes					
MTBE										
Other Organics										
PAHs					\boxtimes					
PCBs										
Pesticides										
PFAS										

GW: groundwater

_

^{††} Changing the selected standard from either background or Statewide health to the site-specific standard, changing to a combination of standards that includes the site-specific standard, or choosing the special industrial area designation requires a new NIR submission with new public and municipal notifications.

Please list individual contaminants here, by environmental medium and cleanup standard (optional):

Statewide Health Standards (Soil): benzene, 1,2-Dibromoethane, 1,2-dichloroethane, ethylbenzene, isopropylbenzene, methy tertiary butyl ether, naphthalene, tolune, 1,2,4-trimethylbenzene, 1,3,4-
trimethylbenzene xylenes, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo (g,h,i)perylene, chrysene, fluoranthene, phenanthrene, pyrene, lead

Property Owner, Remediator/Participant, and Consultant

Complete the form below for each recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Property Owner						
Contact Person/Title Anne Garr/Assistant Secretary	eFACTs Client ID(If Known) <u>51-33620</u>					
Phone Number <u>312-283-4469</u>	Email Address agarr@hilcoglobal.com					
Company Name <u>Philadelphia Energy Solutions Refining and</u> <u>Marketing LLC</u>	EIN or Federal ID #					
Address (street, city, state, zip) 111 South Wacker Drive, Suite 3000, Chicago, IL 60606						
Client Type (choose from list below) Limited Liabilty company						

Client Types:

Association/Organization

Authority Limited Liability Partnership Partnership-General County Municipality Partnership-Limited Estate/Trust Non-Pennsylvania Pennsylvania Corporation

School District Federal Agency Government Sole Proprietorship Individual Other (Government)

Other (Non-Government) Limited Liability company State Agency

Consultant	
Contact Person/Title Jeff Smith	Email Address JSmith@langan.com
Phone Number <u>215-845-8915</u>	Company Name <u>Langan Engineering and Environmental</u> Services
Address (street, city, state, zip) 1818 Market Street, Suite	
Other Participant (Remediator)	
Contact Person/Title Anne Garr/Assistant Secretary	
Relationship to Site Remediator	
(e.g. remediator, participant in cleanup if other than owne	
Phone Number <u>312-283-4469</u>	Email Address agarr@hilcoglobal.com
Company Name Philadelphia Energy Solutions Refining and Marketing LLC	EIN or Federal ID #
Address (street, city, state, zip) 111 South Wacker Drive,	Suite 3000, Chicago, IL 60606
Preparer of Notice of Intent to Remediate	
Name Adam Goldberg	Title Senior Project Manager
Phone Number <u>215.845.8946</u>	Email Address agoldberg@langan.com
Company Name Langan Engineering and Environmental	Services
Address (street, city, state, zip) 1818 Market Street, Suite	3300, Philadelphia, PA 19103

4/18/24, 3:35 PM ePermitting

Submission Details

Details have been submitted successfully. Please review and print the Transaction Receipt for your records.

Reference: 227989

Form Name: LAND RECYCLING NOTICE OF INTENT TO REMEDIATE

Submitter Name: Adam Goldberg

Submitter Organization: Langan Engineering and Environmental Services

Submitter Email: Agoldberg@langan.com

Phone Number: (215) 845-8946

Submitted To: Southeast Regional Office

Date Submitted: 04/18/2024

Print Confirmation

Need help? Contact Us (https://greenport.pa.gov/gpl/GpLogin/ContactUs)

Pennsylvania Department of Environmental Protection

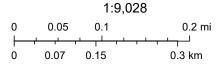
Rachel Carson Building | 400 Market Street | Harrisburg, PA 17101

Figure 1 - Right-of-Way- 3 (ROW-3) Release on 6/22/23 Area



4/3/2024, 4:21:28 PM

Location of Right-of-Way- 3 (ROW-3) Release on 6/22/23 Area



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

The Philadelphia Inquirer

100 S. INDEPENDENCE MALL W, STE 600, PHILADELPHIA, PA 19106

Affidavit of Publication

On Behalf of: LANGAN 1818 Market St Suite 3300 PHILADELPHIA, PA 19103

STATE OF PENNSYLVANIA COUNTY OF PHILADELPHIA:

Before the undersigned authority personally appeared the undersigned who, on oath represented a and say; that I am an employee of The Philadelphia Inquirer, LLC, and am authorized to make this affidavit of publication, and being duly sworn, I depose and say:

- 1. The Philadelphia Inquirer, LLC is the publisher of the Philadelphia Inquirer, with its headquarters at 100 S. Independence Mall West, Suite 600, Philadelphia, PA 19106.
- 2. The Philadelphia Inquirer is a newspaper that which was established in in the year 1829, since which date said daily newspaper has been continuously published and distributed daily in the City of Philadelphia, count and state aforesaid.
- 3. The printed notice or publication attached hereto set forth on attached hereto was published in all regular print editions of The Philadelphia Inquirer on

There Successy Nancy S. Fisher

Legal Notices

as published in Inquirer Legals in the issue(s) of:

4/12/2024

4. Under oath, I state that the following is true and correct, and that neither I nor The Philadelphia Inquirer, LLC have any is interest in the subject matter of the aforesaid notice or advertisement.

Notary Public

My Commission Expires:

Commonwealth of Pennsylvania - Notary Seal Nancy S Fisher, Notary Public Philadelphia County My Commission Expires June 27, 2027 Commission Number 1433937

Ad No: 161245 Customer No: 110234

COPY OF ADVERTISEMENT

Notice of an Intent
to Remediate to an Environmental Standard
(Section 304(n)(2)(i))
(Sections 302(e)(1)(ii), 303(h)(1)(ii),
304(n)(1)(i), and 305(c)(1))
Pursuant to the Land Recycling and
Environmental Remediation Standards Act, the
act of May 19, 1995, P.L. 4, No. 1995-2, notice is
hereby given that Philadelphia Energy Solutions
Refining and Marketing LLC will submit to the
Pennsylvania Department of Environmental
Protection a Notice of Intent to Remediate a site
located at 3144 West Passyunk Avenue,
Philadelphia, PA. This Notice of Intent to
Remediate states the site is Right-of-Way 3
(ROW-3) Release on 6/22/23 Area at the Former
Philadelphia Energy Solutions Refinery. The site
remediated to Statewide Health Standards
pertains to petroleum-impacted soils related to a
limited-area release of petroleum products.
Philadelphia Energy Solutions Refining and
Marketing LLC has indicated that the remediation
measures consisted of soil excavation. The site
will be used for non-residential
commercial/industrial use.

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT 6389 Domestic Mail Only 8736 Certified Mail Fee 1000 Postmark Here Adult Signature Required \$

Adult Signature Restricted Delivery \$ 1670 Postage Total Postage and Fees 7022 Sent To Leigh Anne Rainford

Street and Apt. No., or PO Box No.
7801 Essington Avenue, 2nd floor Philadelphia, PA 19153

The second secon	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Attn: Leigh Anne Rainford Environmental Health Services 7801 Essington Avenue, 2nd floor Philadelphia, PA 19153 	A. Signature X
9590 9402 5367 9189 8345 79 2. Article Number (Transfer from service label) 7022 1670 0001 8736 6389	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail® □ Collect on Delivery □ Collect on Delivery □ Insured Mail Restricted Delivery □ Insured Mail Restricted Delivery □ Registered Mail Restricted Delivery □ Registered Mail Restricted Delivery □ Return Receipt for Merchandise □ Signature Confirmation □ Signature Confirmation Restricted Delivery (over \$500)
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt



November 12, 2024

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Leigh Anne Rainford Environmental Health Services 7801 Essington Avenue, 2nd Floor Philadelphia, PA 19153

RE: Final Report Submission

Right-of-Way 3 (ROW-3) Release on 6/22/23 Area The Bellwether District Redevelopment Project

aka Former Philadelphia Energy Solutions (PES) Refinery

3144 West Passyunk Avenue Philadelphia, Pennsylvania

Dear Ms. Rainford:

Notice is hereby given that Bellwether District Holdings, LLC formerly known as Philadelphia Energy Solutions Refining and Marketing LLC is submitting a final report to the Department of Environmental Protection for a distinct localized area in Right-of-Way (ROW) 3 of the former Philadelphia Energy Solutions Refinery site located at 3144 West Passyunk Avenue, Philadelphia, PA. The report indicates that the remediation performed has attained compliance with the Statewide health cleanup standard.

This notice is made under the provision of the Land Recycling and Environmental Standards Act, the Act of May 19, 1995, P.L. 4, No. 2.

If you have any questions concerning the proposed remediation you may contact Adam Goldberg at (215) 845-8946.

Sincerely,

Langan Engineering & Environmental Services, Inc.

Adam Goldberg, LSRP Senior Project Manager

November 12, 2024 Page 2

, .

enclosures:

Draft of Newspaper Publication Final Report Summary

CC.

Amy Piccone – PESRM
Julianna Connolly – PESRM
Jason Hanna, CHMM – Langan
Cortney Savidge ,CHMM - Langan
Jeff Smith, PG – Langan
C. David Brown, PG – PADEP

Notification of Receipt of a Final Report for Statewide Health Standard (Sections 302(e)(2), 303(h)(2))

Notice is hereby given that Bellwether District Holdings, LLC formerly known as Philadelphia Energy Solutions Refining and Marketing LLC is submitting a final report to the Department of Environmental Protection, Southeast Regional Office, to demonstrate attainment of the Statewide health standard for a distinct localized area in Right-of-Way (ROW) 3 of the former Philadelphia Energy Solutions Refinery site located at 3144 West Passyunk Avenue, Philadelphia, PA. Bellwether District Holdings, LLC. formerly known as Philadelphia Energy Solutions Refining and Marketing LLC has indicated that the remediation measures taken have attained compliance with the Statewide health cleanup standard established under the Land Recycling and Environmental Remediation Standards Act.

This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. #4, No. 2.



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

For DEP Use Only				
PF #				
Rem ID #				

FINAL REPORT SUMMARY

The Final Report Summary (FRS) is a brief report consisting of set of data required in addition to the Act 2 Final Report. The summary is used in part as a reference to the Final Report Approval Letter which conveys liability relief to the remediator and other applicable persons. It is of value long after the remediation to be used by the public and Department in understanding key information about the site and remediation.

This use is increased by the fact that it will ultimately be merged into the Department's eFACTS system, which allows the public to have the ease of computer access to environmental information at sites. For more information, see www.ahs.dep.pa.gov/eFACTSWeb/default.aspx. Finally, the summary will be used by the Department to help to better assess the status and the level of success of the program. In the past, numbers of sites remediated has been tracked. With the inclusion of this summary information, progress can be tracked in many specific ways, including identification of individual chemical constituents, and the mass treated, removed or managed safely in place.

Identification					
Property Name Right-of-Way- 3	(ROW-3) Relea	ase on 6/22/23	Area		
Property Descriptor					
Address / Location					
Address 3144 West Passyunk A	venue				
City Philadelphia			Zip C	ode <u>19145</u>	
Municipality(s)Philadelphia			Coun	ty(ies) <u>Philadelpl</u>	hia
Latitude 39 ° (deg). 54	' (min) 48.8	_" (sec) Lor	ngitude <u>75</u>	° (deg). <u>11</u>	' (min) <u>51.9</u> " (sec
Horizontal Collection Method Ge	ographic Inforn	mation Systems	3		
Horizontal Reference Datum NA	.D83		Reference	e Point <u>See attac</u>	hed Figure 1
Property Specifics					
Size of Property <u>0.08 acres</u>			Number o	f Sites <u>1</u>	
Combined acreage of sites <u>0.08</u>	acres				
Remediation					
Standards attained or special inc	dustrial area att	tainment. (Che	ck all that app	oly. Can use mult	tiple.)
☐ Background ☐ State	ewide Health	☐ Site-S	Specific	☐ Special Ind	lustrial Area
Proposed future property use - s	cenario for whi	ch the attainme	ent of Statewi	de Health standa	ard is demonstrated
☐ Residential ☐ Non-	-residential				
List of contaminants					
Soils					
				Contaminant	Mass Contaminant

Chemical Name	CAS Number	Mass Contaminant Treated or Removed (lbs.)	Mass Contaminant Managed on Site (lbs.)
See Table 1 - PADEP SWHS Selection, attached.			

Groundwater

Chemical Name	CAS Number	Mass Contaminant Treated or Removed (Ibs.)	Mass Contaminant Managed on Site (lbs.)
V/A	CAS Number	Removed (ibs.)	Site (ibs.)
Remediation			
Number of sampling rounds for groundwa	ater attainment: N/A		
Special Features			
· Non-use aquifer approval date:			
· · · · · · · · · · · · · · · · · · ·			
Tiou mao baongrouna approvar auto.			
Amount of waste removed other than	soil or groundwater (cul	hic varde):	
Amount of waste removed other than s		bic yards):	
Amount of waste removed other than s		bic yards):	
		bic yards):	
☐ Municipal ordinance prohibiting gro		bic yards):	
		bic yards):	
☐ Municipal ordinance prohibiting gro		bic yards):	
☐ Municipal ordinance prohibiting gro		bic yards):	
☐ Municipal ordinance prohibiting gro		bic yards):	
☐ Municipal ordinance prohibiting gro		bic yards):	
☐ Municipal ordinance prohibiting gro		bic yards):	
☐ Municipal ordinance prohibiting gro		bic yards):	

2610-FM-BECB0011 Rev. 12/2015
Other Programs
☐ Key Site
Multi-site Agreement; Date:
☐ Enterprise Zone
⊠ Keystone Opportunity Zone
Administrative
☐ Municipality request for public involvement plan
Deed notification
☐ Deed acknowledgment:
☐ Environmental covenant:

Cleanup cost (\$): 100,000

Jobs created/saved: Not Applicable

Narrative: Provide property history and description, site characterization findings, site description, summary of remediation, summary of attainment demonstration, description of pathway elimination, engineering and institutional controls, and benefits of land reuse, when applicable.

The post-excavation soil sample analytical results demonstrate attainment of the non-residential SWHS but also confirm that the remediated Act 2 Site soils did not extend to the groundwater table which is documented to be encountered at an elevation of about 1.44 feet in the vicinity of the release area. As part of Facility wide redevelopment activities, the ROW-3 Release Area will be under a paved area.

As an institutional control, prior to their construction and occupancy, on-facility buildings which could be occupied in the future will be subject to vapor intrusion investigation and evaluation to determine if conditions (i.e., volatilization of COPC from soil, groundwater, and/or light non-aqueous phase liquid) could pose an unacceptable risk to occupants. As needed, vapor mitigation systems will be incorporated into the design and construction of such buildings as engineering controls where potentially unacceptable vapor intrusion risks are identified. These activities and use limitations will eliminate the potential for future unacceptable exposures to contaminants of potential concern at the Site via vapor intrusion.

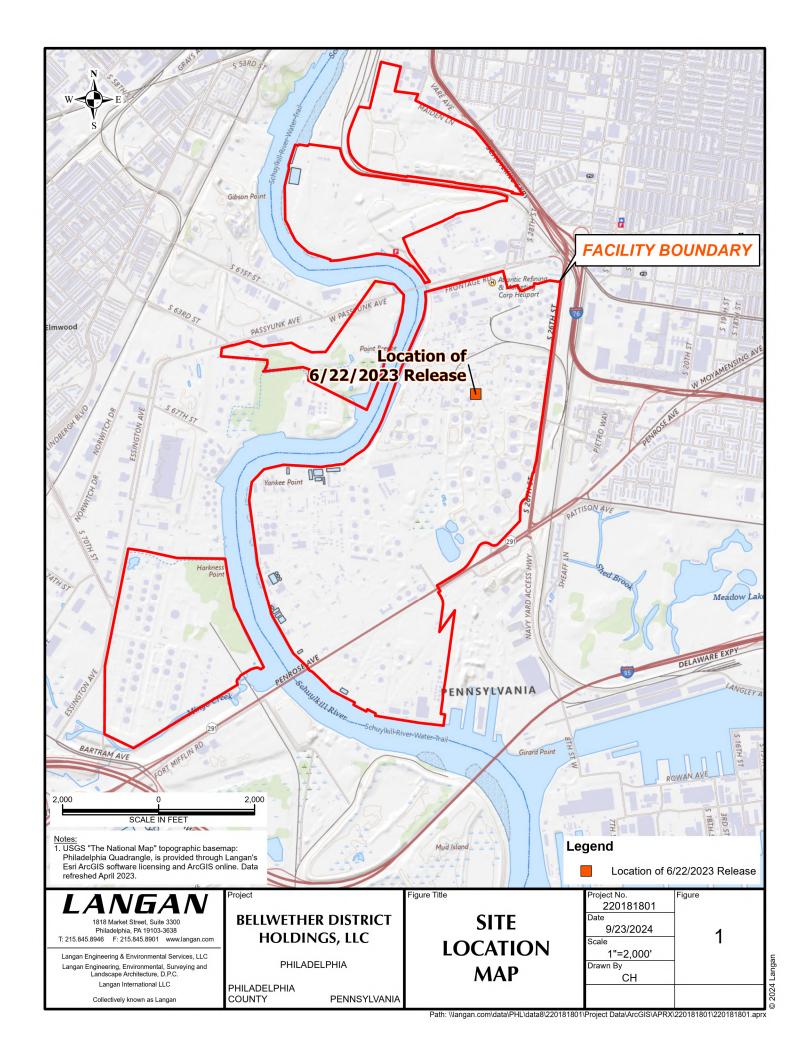
Remediator / Property Owner / Consultant. Comple liability upon approval of the final report. Attach additional	ete the form below for <u>each</u> recipient obtaining a release of al sheets as necessary.
Remediator	
Contact Person/Title Anne Garr/Assistant Secretary	eFACTS Client ID* 51-33620
Relationship to Site Remediator/Property Owner (e.g. owner, remediator, participant in cleanup, consultan	
Phone Number 312-283-4469	Email Address agarr@hilcoglobal.com
Company Name <u>Bellwether District Holdings, LLC</u> formerly known as Philadelphia Energy Solutions Refining and Marketing LLC	EIN or Federal ID #
Street Address 111 South Wacker Drive, Suite 3000	_
City Chicago	State IL Zip Code 60606
F2	
Property Owner	
Contact Person/Title Anne Garr/Assistant Secretary	
Relationship to Site Remediator/Property Owner (e.g. owner, remediator, participant in cleanup, consultan	
Phone Number <u>312-283-4469</u>	Email Address agarr@hilcoglobal.com
Company Name <u>Bellwether District Holdings, LLC</u> formerly known as <u>Philadelphia Energy Solutions</u> Refining and Marketing LLC	EIN or Federal ID #
Street Address 111 South Wacker Drive, Suite 3000	
City Chicago	State IL Zip Code 60606
Consultant	
Contact Person/Title Jeff Smith/Senior Associate	eFACTS Client ID*
	Client Type*
(e.g. owner, remediator, participant in cleanup, consultan	, ·
	Email Address JSmith@langan.com
Company Name <u>Langan Engineering and</u> <u>Environmental Services, LLC</u>	EIN or Federal ID #
Street Address 1818 Market Street, Suite 3300	
City Philadelphia	State PA Zip Code 19103
The Late Co. 110 (11)	
*Include eFACTS Client ID (if known) – "Client Types" below: Association/Organization Authority County Estate/Trust Federal Agency Individual **Include eFACTS Client ID (if known) – "Client Types" below: Limited Liability Municipality Non-Pennsylva Other (Non-Goven)	y Partnership Partnership-Limited School District Sole Proprietorship vernment) State Agency

Attachments: In addition to the data entered in this FRS, the Department requests scanned image(s) of a map view of the site indicating, at a minimum, the boundaries of the "site" relative to the locations of the adjacent property boundaries. The location of the site (as defined by Act 2) is that which will receive the liability relief conveyed by Act 2, Chapter 5. The maps may portray other features but should clearly show the Act 2 site boundaries. You may also attach other applicable image files or attachments. These files should be in Adobe Acrobat (*.pdf), GIF (*.gif) or JPEG file interchange format (*.jpg).

Table 1 Selection of Statewide Health Standards Bellwether District Holdings, LLC. Philadelphia, PA

Compound Name	PADEP Non-Residential Direct Contact 0-2 Ft	PADEP Non-Residential Direct Contact 2-15 Ft	PADEP Non-Residential Soil to Groundwater MSC Used Aquifer TDS <=2500 mg/l Unsaturated 100X MSC	PADEP Non-Residential Soil to Groundwater MSC Used Aquifer TDS <=2500 mg/l Unsaturated Generic Value
Benzene	280	330	0.5	0.13
1,2-Dibromoethane (EDB)	3.7	4.2	0.005	0.0012
1,2-Dichloroethane (EDC)	85	98	0.5	0.1
Ethylbenzene	880	1000	70	46
Isopropylbenzene	10000	10000	350	2500
Methyl Tertiary Butyl Ether (MTBE)	8500	9800	2	0.28
Naphthalene	66	77	10	25
Toluene	10000	10000	100	44
1,2,4-Trimethylbenzene	4700	5400	53	300
1,3,5-Trimethylbenzene	4700	5400	53	93
Xylenes (Total)	7900	9100	1000	990
Anthracene	190000	190000	6.6	350
Benzo(a)anthracene	130	190000	0.39	340
Benzo(a)pyrene	91	190000	0.02	46
Benzo(b)fluoranthene	76	190000	0.055	610
Benzo(g,h,i)perylene	190000	190000	0.026	180
Chrysene	760	190000	0.19	230
Fluorene	130000	190000	190	3800
Phenanthrene	190000	190000	110	10000
Pyrene	96000	190000	13	2200
Lead	1000	190000	0.5	450

Bold represents the Non-Residential Statewide Health Standards (SWHS) used.







MIDDLE CITY 2037 CHESTNUT ST FL 1 PHILADELPHIA, PA 19103-9997 (800)275-8777

11/12/2024		0:	1:09	PM
Product	Qty	Unit Price	Pri	ce
First-Class Mail® Letter Philadelphia, PA Weight: 0 lb 1.80 Estimated Delive	D o z ry Date		\$1.	.01
Thu 11/14/20: Certified Mail® Tracking #: 70190140		736253	\$4	. 85
Return Receipt Tracking #:			•	. 10
9590 9403 Total	2 5367	9189 8308		. 96
Prepaid Mail	1		\$0	.00

Grand Total: \$9.96

Credit Card Remit \$9.96

Card Name: AMEX
Account #: XXXXXXXXXXXX1292

Approval #: 885291

Transaction #: 868

AID: A000000025010801 Contactless
AL: AMERICAN EXPRESS
PIN: Not Required

The Philadelphia Inquirer

100 S. INDEPENDENCE MALL W, STE 600, PHILADELPHIA, PA 19106

Affidavit of Publication

On Behalf of: LANGAN 1818 Market St Suite 3300 PHILADELPHIA, PA 19103

STATE OF PENNSYLVANIA COUNTY OF PHILADELPHIA:

Before the undersigned authority personally appeared the undersigned who, on oath represented a and say; that I am an employee of The Philadelphia Inquirer, LLC, and am authorized to make this affidavit of publication, and being duly sworn, I depose and say:

- 1. The Philadelphia Inquirer, LLC is the publisher of the Philadelphia Inquirer, with its headquarters at 100 S. Independence Mall West, Suite 600, Philadelphia, PA 19106.
- 2. The Philadelphia Inquirer is a newspaper that which was established in in the year 1829, since which date said daily newspaper has been continuously published and distributed daily in the City of Philadelphia, count and state aforesaid.
- 3. The printed notice or publication attached hereto set forth on attached hereto was published in all regular print editions of The Philadelphia Inquirer on

Thelese Successy Nancy S. Fisher

Legal Notices

as published in Inquirer Legals in the issue(s) of:

11/14/2024

4. Under oath, I state that the following is true and correct, and that neither I nor The Philadelphia Inquirer, LLC have any is interest in the subject matter of the aforesaid notice or advertisement.

Notary Public

My Commission Expires:

Commonwealth of Pennsylvania - Notary Seal Nancy S Fisher, Notary Public Philadelphia County My Commission Expires June 27, 2027 Commission Number 1433937

Ad No: 175489 Customer No: 110234

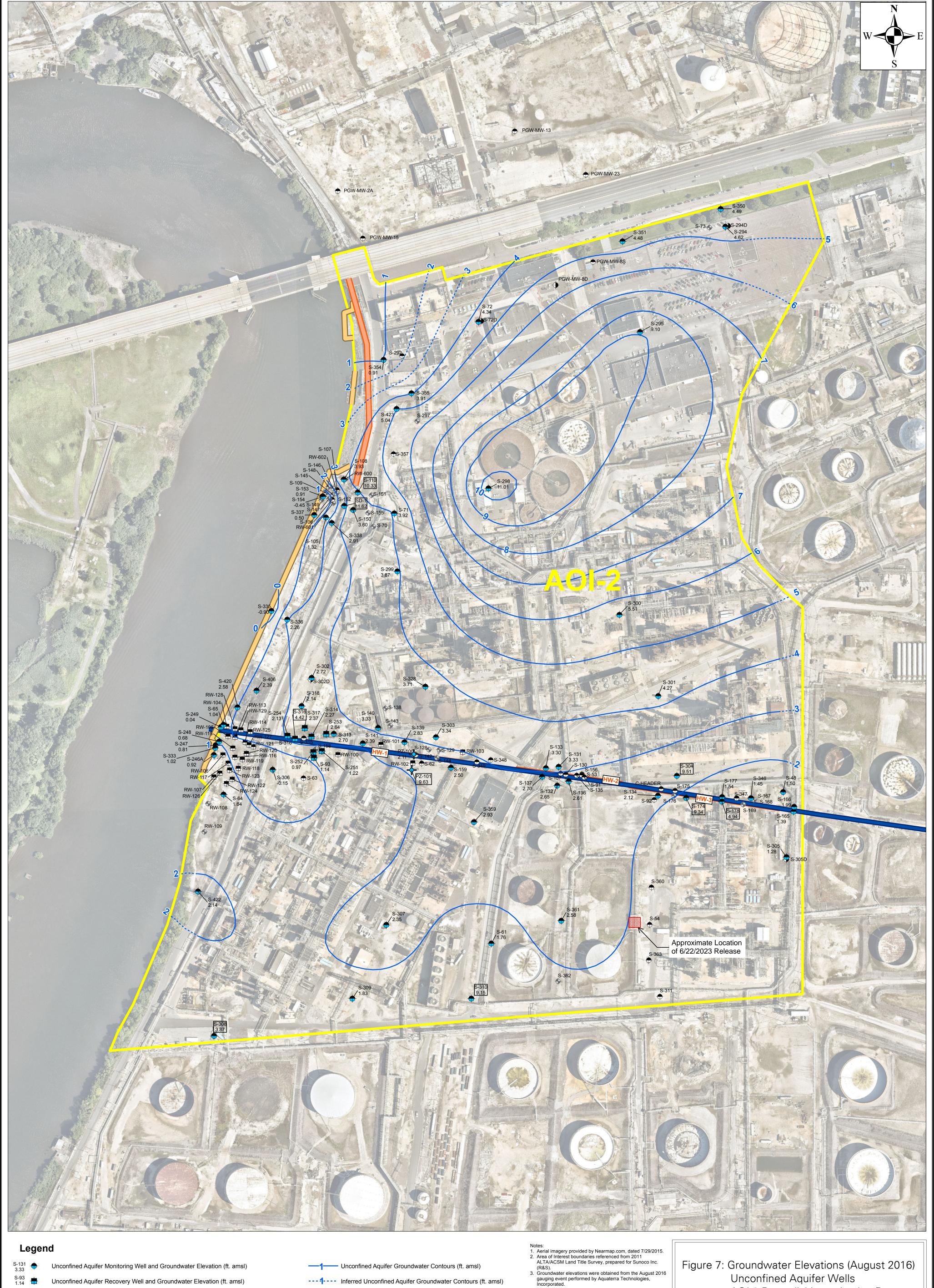
COPY OF ADVERTISEMENT

Notification of Receipt

Notification of Receipt
of a Final Report for
Statewide Health Standard
(Sections 302(e)(2), 303(h)(2))
Notice is hereby given that Bellwether District
Holdings, LLC formerly known as Philadelphia
Energy Solutions Refining and Marketing LLC is
submitting a final report to the Department of
Environmental Protection, Southeast Regional
Office, to demonstrate attainment of the
Statewide health standard for a distinct localized
area in Right-of-Way (ROW) 3 of the former
Philadelphia Energy Solutions Refinery site
located at 3144 West Passyunk Avenue,
Philadelphia, PA. Bellwether District Holdings,
LLC. formerly known as Philadelphia Energy
Solutions Refining and Marketing LLC has
indicated that the remediation measures taken
have attained compliance with the Statewide
health cleanup standard established under the
Land Recycling and Environmental Remediation
Standards Act Recycling and Environmental Remediation

Land Recycling and Environmental Standards Act.

This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. #4,



- PZ-101 9.63 Unconfined Aquifer Piezometer and Groundwater Elevation (ft. amsl)
 - Well Abandoned/Destroyed/Unable to Locate
 - Lower Aquifer Monitoring Well
 - Unconfined Aquifer Monitoring Well
 - Unconfined Aquifer Recovery Well
 - Unconfined Aquifer Piezometer

- Bulkhead
- Pollock Street Sewer

Vertical Wall

SD-1 11.62 • Well Not Used in Contouring

- Horizontal Well AOI Boundary
- Reprinted from July 2017 Remedial Investigation Report for AOI 2, Evergreen, additions in red added by Langan.
- 4. ft. amsl = feet above mean sea level
- AOI-2 Remedial Investigation Report

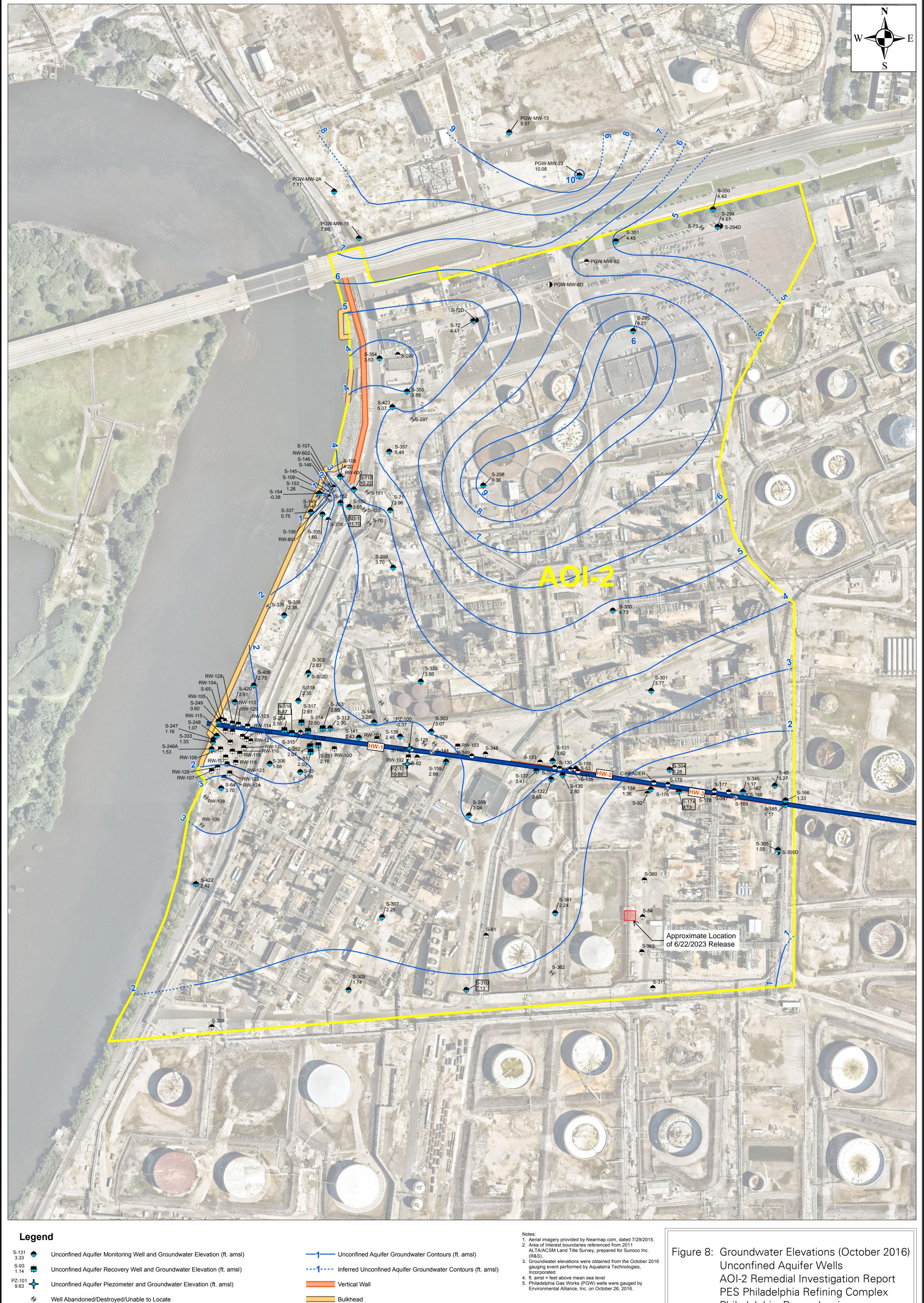
PES Philadelphia Refining Complex Philadelphia, Pennsylvania



Philadelphia Refinery Operations A Series of Evergreen Resources Group, LLC. 2 Righter Parkway, Suite 200

Wilmington, DE 19803 75 150 300 Feet

SCALE: 1" = 150' DATE: March 3, 2017 DRN. BY: HD CKD. BY: ED Path: \\langan.com\\data\DYL\\data6\2574601\ArcGIS\MapDocuments\AOI 2 RIR 2016\Figure 7 - Unconfined Aquifer Groundwater Elevation Contour Plan (August 2016).mxd Date: 7/17/2017 User: hnunn Time: 10:38:00 AM



Unconfined Aquifer Monitoring Well AOI Boundary SD-1 11.70 • Well Not Used in Contouring Unconfined Aquifer Recovery Well Unconfined Aquifer Piezometer Horizontal Well

Lower Aquifer Monitoring Well

Pollock Street Sewer

Reprinted from July 2017 Remedial Investigation Report for AOI 2, Evergreen Additions in red added by Langan.

PES Philadelphia Refining Complex Philadelphia, Pennsylvania

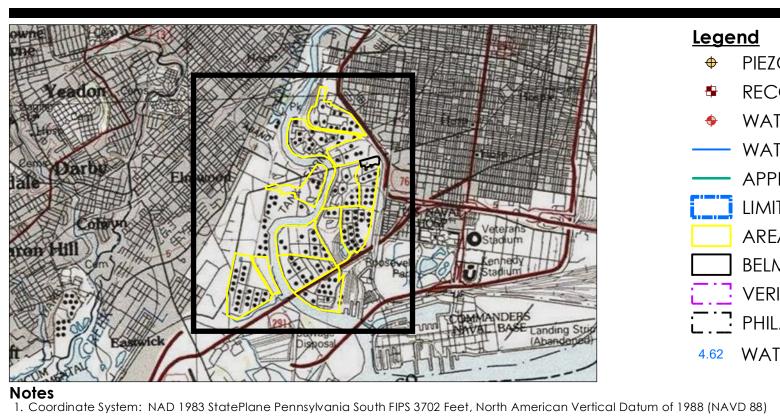


Philadelphia Refinery Operations A Series of Evergreen Resources Group, LLC.

2 Righter Parkway, Suite 200 Wilmington, DE 19803

SCALE: 1" = 150' DATE: March 3, 2017 DRN. BY: HD CKD. BY: ED 75 150 300 Feet





- WATER TABLE MONITORING WELL
- WATER-TABLE ELEVATION CONTOUR (FEET NAVD 88)
- ---- APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER LIMITS OF WATER-TABLE WELL CONTROL
- AREA OF INTEREST (AOI)
- BELMONT TERMINAL VERIZON SOUTH DISTRICT WORK CENTER (SDWC) PROPERTY
- PHILADELPHIA GAS WORKS (PGW) PASSYUNK FACILITY PROPERTY BOUNDARY 4.62 WATER-TABLE ELEVATION (FEET NAVD 88)
- Source: Stantec
 Callouts denote corrected groundwater elevation in feet. Depth to groundwater was measured in each well to the nearest one-hundredth of a foot using an interface probe. Groundwater remediation systems were in operation during well gauging.
 Groundwater elevation data was interpolated using block kriging with a linear variogram model in Surfer.
 Wells not measured during the April/May 2023 event are not displayed and include (but are not limited to) damaged wells, destroyed wells, inaccessible wells, wells with pumps, and wells that were gauged but dry.
 Wells gauged during April/May 2023 but not utilized for water-table contouring include those containing measurable light, non-aqueous phase liquid, wells screened across a fill-supported perched aquifer, wells intersecting more than one water-bearing unit, wells with fouled screens, a subset of the remediation system wells, and wells excluded from contouring in recent Remedial Investigation Reports. Wells not used for contouring are not displayed.
 Contour Interval = 1 foot
 Aerial & Topo Copyright:© 2013 National Geographic Society. i-cubed
- 8. Aerial & Topo Copyright:© 2013 National Geographic Society, i-cubed PEMA Philadelphia County 2018 Aerial Imagery

2. Source: Stantec

Reprinted from July 2023 Groundwater Remediation Status Report, First Half of 2023, additions in red added by Langan.

Figure No.

Project Location

WATER-TABLE **GROUNDWATER ELEVATION MAP** APRIL/MAY 2023
Client/Project

PHILADELPHIA REFINERY OPERATIONS, A SERIES OF EVERGREEN RESOURCES GROUP, LLC FORMER PHILADELPHIA REFINERY 3144 PASSYUNK AVENUE, PHILADELPHIA, PA 19145

City of Philadelphia, Philadelphia County, Pennsylvania Stantec



Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

LANGAN

6/22/23 Release Area Photographs

Client Name:

Philadelphia Energy Solutions Refining and Marketing LLC

Site Location:

3144 West Passyunk Avenue, Philadelphia, PA

Project No. 220181801

Date

Photo No.

Direction Photo Taken:

North

Description:

View upon discovery of Act 2 Site area where water and a petroleum product mixture were observed in the excavation area.



Date

Photo No.

Direction Photo Taken:

East

Description:

View of pipe removal after first indication of a release to better visually determine the nature and extent of impacted soil.



LANGAN

6/22/23 Release Area Photographs

Client Name:

Philadelphia Energy Solutions Refining and Marketing LLC

Site Location:

3144 West Passyunk Avenue, Philadelphia, PA

Project No.

220181801

Date Photo No. 6/22/2023 3

Direction Photo Taken:

North

Description:

View of immediate response liquids removal efforts after pipe removal.



Date 6/22/2023

Photo No.

Direction Photo Taken:

NA

Description:

View of defective section of piping removed from the Act 2 Site Area.



LANGAN

6/22/23 Release Area Photographs

Client Name:

Philadelphia Energy Solutions Refining and Marketing LLC

Site Location:

3144 West Passyunk Avenue, Philadelphia, PA

Project No. 220181801

Date 6/22/2023

Photo No.

Direction Photo Taken:

North

Description:

View of excavation area after immediate response efforts but before the over excavation of visually impacted soils.



Date 7/14/2023

Photo No.

Direction Photo Taken:

North

Description:

View of excavation area after immediate response efforts, additional excavation of visibly impacted soils and additional excavation before post excav/ation sampling.



LANGAN

6/22/23 Release Area Photographs

Client Name:

Philadelphia Energy Solutions Refining and Marketing LLC

Site Location:

3144 West Passyunk Avenue, Philadelphia, PA

Project No. 220181801

Date 7/14/2023

Photo No.

Direction Photo Taken:

Southeast

Description:

Additional view of completed excavation area following the completion of post-excavation sampling.



Date 7/14/2023

Photo No.

Direction Photo Taken:

Southeast

Description:

View of stockpiled soil removed from the 6/22/23 Release Area and staged in the Temporary Soil Staging Area (TSSA).



LANGAN

6/22/23 Release Area Photographs

Client Name:

Philadelphia Energy Solutions Refining and Marketing LLC

Site Location:

3144 West Passyunk Avenue, Philadelphia, PA

Project No.

220181801

Date 3/19/2024

Photo No.

Direction Photo Taken:

Southeast

Description:

View of stockpiled soil removed from the 6/22/23 Release Area being loaded into trucks for off-site disposal at Clean Earth – New Castle.



FINAL

SOIL MANAGEMENT PLAN

3144 Passyunk Avenue, Pennsylvania, PA Prepared by HRP Philadelphia Holdings, LLC June 15, 2020

HRP Philadelphia Holdings, LLC ("HRP") has prepared this Soil Management Plan (the "Plan") for review and approval by the Pennsylvania Department of Environmental Protection ("PADEP") and the United States Environmental Protection Agency ("EPA").

This Plan describes HRP's anticipated pre-excavation characterization, soil grading, and soil reuse activities during redevelopment of the PES Facility, commonly referred to as the Philadelphia Refinery (the "Site"), and HRP's approach for managing soils at the Site during redevelopment. The Site contains approximately 1,300 acres of land with an address of 3144 Passyunk Avenue, Philadelphia, Pennsylvania 19145. This Plan describes how onsite soils will be sampled prior to grading, relocation, and disturbance, and how decisions will be made about where such soils can be placed at the Site as part of the bulk movement of soil during redevelopment activities.

HRP has prepared this Plan not only to describe its approach to soil management in connection with its redevelopment activities but also to be consistent with Sunoco's site-wide remediation activities pursuant to the following two agreements: (1) the Settlement Agreement and Covenant Not To Sue among EPA, Philadelphia Energy Solutions Refining and Marketing LLC ("PESRM"), and Philadelphia Energy Solutions LLC, Docket Number CERC/RCRA-03-2012-0224DC ("Settlement Agreement"), and (2) the Consent Order and Agreement among PADEP, Sunoco, Inc. (R&M) n/k/a Sunoco (R&M), LLC, and PESRM dated August 14, 2012 ("CO&A").¹ The CO&A is commonly referred to as the Buyer/Seller Agreement and provides that Sunoco will have the sole authority to address "Pre-Existing Contamination" as that term is defined in the Buyer/Seller Agreement at the Site in accordance with the Pennsylvania Land Recycling and Environmental Remediation Standards Act ("Act 2").² The Settlement Agreement recognizes that the Site is being addressed in accordance with the One Cleanup Program Memorandum of Agreement (the "MOA") between PADEP and EPA dated April 21, 2004.³ Thus, HRP understands that PADEP is coordinating its review of Sunoco's characterization and remediation activities at the Site with EPA, so that

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While we understand that Evergreen Resources Management Operations, a series of Evergreen Resources Group, LLC, is now managing the legacy remedial work for Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC ("Evergreen") and Sunoco (R&M), LLC, for clarity, Sunoco, Inc. n/k/a ETC Sunoco Holdings LLC, Sunoco, Inc. (R&M) n/k/a Sunoco (R&M), LLC and Evergreen shall be referred to collectively as "Sunoco" in this Plan.

Sunoco, Inc. (R&M) originally entered the Site in Pennsylvania's Land Recycling Program in October 2006 through the submission of a Notice of Intent to Remediate ("NIR").

³ Settlement Agreement, Para. 17.

Sunoco can integrate and harmonize remedial obligations under the corrective action program pursuant to the Resource Conservation and Recovery Act ("RCRA") with the environmental work that it is performing under Act 2.⁴ Sunoco intends to utilize a combination of the statewide health and site-specific cleanup standards under Act 2 in implementing the Buyer/Seller Agreement. As part of its work under Act 2, Sunoco and PADEP have developed a specific target list of regulated substances as set forth in Table 1 that are the focal point of characterization and future remediation activities at the Site.

HRP and/or its affiliates anticipate acquiring the ownership interests in PES Holdings, LLC, which is the single owner of PESRM, the current owner of the Site. The "Effective Date" of this Plan is the date on which (1) HRP has acquired the ownership interests in PES Holdings, LLC, (2) this Plan, in a form acceptable to Sunoco and HRP, has been approved by PADEP and EPA, (3) PADEP shall have agreed to an amendment to the Buyer/Seller Agreement acceptable to Sunoco and HRP and consistent with this Plan, and (4) Sunoco and HRP shall have entered into a separate agreement further defining their rights and obligations relating to the Site. As of the Effective Date of this Plan, HRP⁵ will be required to follow the terms of the Soil Management Plan pursuant to Section 5.c of the Buyer/Seller Agreement. Final approval of this Plan is subject to PADEP's, Sunoco's, and HRP's approval of an amendment to the Buyer/Seller Agreement, Sunoco's and HRP's approval of amendments to the vesting deeds, and Sunoco and HRP entering a separate agreement further defining their rights and obligations relating to the Site.

1. Background and Objectives

HRP intends to redevelop the Site into a state of the art, multimodal industrial park with ancillary rail infrastructure, energy infrastructure, marine capabilities, and commercial uses. A conceptual master plan for redevelopment of the Site is shown on <u>Figure 1</u>. HRP is aware of the known soil and groundwater impacts at the Site associated with the Site's use for petroleum refining and,

⁴ See EPA Region 3/Pennsylvania Department of Environmental Protection "Streamlining the Process for the One Cleanup Program Under RCRA," September 2005.

For ease of reference, we refer to HRP in this Plan; however, from and after the acquisition of PES Holdings, LLC by HRP and/or an affiliate thereof of HRP, HRP as used herein shall mean PESRM and any other person or entity which owns all or any portion of the Site, together with HRP and/or its affiliates which are responsible for the redevelopment and/or operations at the Site.

Section 17 of the Consent Order and Agreement dated January 15, 2020, by and among PADEP and PESRM provides that: "The Department acknowledges that PESRM or the New Facility Owner, as applicable, may seek redevelopment of the Facility for alternative purposes, including other commercial or industrial uses, and agrees to work as expeditiously as possible and in good faith with PESRM or the New Facility Owner in the approval, if required, of a commercially reasonable soil management work plan or similar approvals that permits and is otherwise consistent with any such redevelopment. Accordingly, the Department will not object to any amendments to the Consent Order and Agreement entered into on August 14, 2012, by and among the Department, Sunoco, Inc. (R&M), and PESRM (hereinafter, the "Buyer-Seller Agreement"), as necessary to effect the foregoing. Except as set forth above, nothing in this Consent Order and Agreement is intended, nor shall it be construed, to modify the Buyer-Seller Agreement, which shall remain in full force and effect, unless modified per its terms."

accordingly, will use the Site only for non-residential purposes. This use restriction will be reflected in one or more environmental covenants for the Site. HRP's redevelopment approach introduces an opportunity to integrate cleanup activities with redevelopment of the Site. Specifically, many of the anticipated development components (e.g., building slabs, drive aisles, parking lots, new roadways, and other paved areas as described in cleanup plans to be submitted to PADEP) will serve as barriers to exposure and/or infiltration, and will be used to achieve the site-specific standard under Act 2 for soils at the Site. Table 2 lists examples of anticipated development components and the functions that they will serve in connection with use of the site-specific standard under Act 2 for soils at the Site.

A key element of HRP's redevelopment plan involves raising the ground surface elevations on the portion of the Site east of the Schuylkill River above base flood elevations. Some of the ground surface elevations at the Site are currently below base flood elevations while other areas are above base flood elevations. As such, HRP intends to move soils from locations with higher ground surface elevations to areas with lower ground surface elevations so that the final grades for all areas of the Site east of the Schuylkill River achieve the design standard of being above the base flood elevation ("BFE") as established by the Federal Emergency Management Agency ("FEMA"). Specifically, all parking lots will be above the BFE and all building floor slabs will be more than 4 feet above the BFE. All building floor slabs will also be above the 500-year floodplain. None of the soils that are moved as part of the regrading process will be placed in areas below the groundwater table. Key objectives of the Soil Management Plan are:

- 1. To retain and reuse all soils that are excavated or disturbed by HRP at the Site in order to balance grades and achieve elevations necessary for redevelopment.
- 2. To facilitate movement of soils by HRP within each of the portions of the Site on the east and west sides of the Schuylkill River, respectively (i.e. no movement of soils will occur between the east and west sides of the Schuylkill River).
- 3. To establish requirements for HRP's sample collection and analysis for determining the manner in which excavated soils will be placed and reused onsite and for ensuring that sufficient data for future work under Act 2 is available to substantially limit the need for additional sampling by Sunoco (i.e., for purposes of site characterization, risk assessments and cleanup plans).

HRP understands that Sunoco's anticipated cleanup approach for the Site may rely on the assumption that certain impacted soils would remain at depths where they would not be accessible by relevant receptors at the Site and/or would be subject to different cleanup standards under Act 2 for subsurface soils at nonresidential properties (i.e., soils at depths of greater than two feet below ground surface ("bgs")). To ensure that this Plan is fully aligned with Sunoco's anticipated cleanup approach, if such impacted soils are relocated by HRP to achieve

necessary redevelopment elevations, those soils will be placed in accordance with the reuse options specified in Table 3.

Based on the planned redevelopment of the Site, most soils at the Site will ultimately be located beneath a development component that will serve as an exposure barrier (i.e., placed under building pads, drive aisles, parking lots, roadways or other features that will function as exposure barriers). Accessible surface soils will only be present in limited areas of the Site (e.g., landscape areas). Surface soils in these accessible areas will consist of either (1) imported material or (2) soils from the Site that have been identified as appropriate for this use in accordance with Table 3. Imported soil used as surface soil will be either clean fill or regulated fill under PADEP's Management of Fill Policy (PADEP, 2020), as appropriate, and soils from the Site will only be considered appropriate for use as surface soil if a risk assessment demonstrates attainment of the site-specific standard. To the extent that soils are transported offsite for disposal, such soils will be managed in accordance with applicable legal requirements.

Anticipated cut and fill areas at the Site are shown on <u>Figure 2</u>. HRP has taken care to avoid known areas of light nonaqueous phase liquid ("LNAPL") in the anticipated cut areas. Specifically, HRP's final cut and fill plan will be designed to leave a minimum two foot buffer between the bottom of cut areas and the top of known LNAPL plumes.

2. Sequencing and Coordination - Decommissioning and Bulk Soil Movement

Decommissioning, demolition, soil grading, and redevelopment will occur in phases across the Site. Timing of the soil pre-excavation sampling described in this Plan and subsequent bulk soil movement will be coordinated with decommissioning and demolition schedules in each phase. During decommissioning and demolition, areas of the Site that were previously inaccessible will become accessible (e.g., areas currently beneath process units). Sunoco has reviewed the extensive sampling activities that have been completed at the Site to date and has identified 17 areas where the presence of process units or other features have precluded sampling from being performed beneath those process units or other features. These areas are shown on Figure 3 and have been divided into 20 cells. HRP will coordinate with Sunoco to allow Sunoco to visually inspect these areas as they become accessible.

Based on the results of its visual assessment, Sunoco will complete additional investigation and sampling in the areas shown on Figure 3, as follows:

Soil borings will be advanced in each cell in accordance with 25 Pa. Code 250.408. We expect the number of borings to be between one and four borings per cell, though the actual number of borings will be based on visual observations of the ground surface and visual and field screening observations during boring installation. Sunoco will make the determination of the location and number of soil borings in each cell based on the field conditions that are encountered. Borings will be completed to the observed groundwater table.

- In areas that will be filled by HRP (i.e., soil will be added) as part of redevelopment of the Site or will be left undisturbed, one surface soil sample and one subsurface soil sample will be collected from each soil boring. The depth of the subsurface sample will be selected based on visual observations and field screening results.
- In areas that will be cut by HRP (i.e., soil will be removed) as part redevelopment of the Site, one surface soil sample, one soil sample from the depth interval representing the new surface soil stratum that will be created by soil removal, and one soil sample from the depth interval representing the new subsurface soil stratum that will be created by soil removal will collected from each boring. The depth of the subsurface sample will be selected based on visual observations and field screening results.
- The soil samples will be analyzed for the regulated substances on the target compound list included in Table 1.

In areas where storage tanks are present that will be removed as part of decommissioning and demolition activities, HRP will proceed with closure and removal of storage tanks in accordance with requirements under 25 Pa. Code Chapter 245 and technical guidance issued by PADEP entitled Closure Requirements for Aboveground Storage Tank Systems (PADEP, 2017). HRP will also complete the appropriate soil assessment activities pursuant to PADEP's tank closure requirements.

In each phase of the redevelopment process, assessment of newly accessible areas by Sunoco as described above and soil characterization by HRP in connection with removal of storage tanks as described above will be completed prior to bulk soil movement in such areas so that the results of such assessment activities can be used in conjunction with planning for redevelopment and remediation. For example, information from the assessment activities may help inform whether newly accessible soils will need to be placed under caps as part of the redevelopment process. Information from the assessment activities may also help inform how soil from newly accessible areas will be reused at the Site.

If discrete regulated waste materials that are separate from soil or groundwater are identified during the pre-excavation characterization sampling described in this Plan, HRP will coordinate with Sunoco, PADEP, and EPA so that such waste materials (e.g., drums containing regulated waste or leaded tank bottoms) can be properly addressed in accordance with applicable requirements as described in Section V.A of the Pennsylvania Land Recycling Program Technical Guidance Manual (PADEP, 2019). HRP will use reasonable efforts to identify and address such waste materials prior to the start of bulk soil movement in any discrete area. HRP recognizes that such waste materials could also be discovered during soil movement. If this occurs, HRP will coordinate with Sunoco, PADEP, and EPA regarding the manner in which the waste materials will be addressed. HRP also understands that leaded tank bottoms are classified as a listed hazardous

waste. If leaded tank bottoms are discovered outside of tanks, HRP will promptly notify Sunoco so that Sunoco can handle the leaded tank bottoms in accordance with EPA's approved leaded tank bottom procedures for the Site.

3. Soil Pre-Excavation Characterization Sampling

Pre-excavation characterization of soils (i.e., sampling of soils in place before such soils are excavated or disturbed) is an important component of this Plan. Pre-excavation characterization of soils by HRP will allow the soils to be managed consistent with Sunoco's cleanup approach for the Site. For example, by characterizing soils before they are excavated or disturbed, HRP will manage soils with lead concentrations above the approved site-specific direct contact standard by placing them beneath development components that will serve as exposure barriers (e.g., building slabs, drive aisles, parking lots, new roadways, and other paved areas as described in cleanup plans to be submitted to PADEP) rather than placing such soils in areas where future users of the Site are likely to come into contact with such soils. Alternatively, pre-excavation characterization sampling by HRP may identify soils that should remain in place rather than being excavated and moved. The pre-excavation characterization process by HRP will provide important information that will be used in tandem with the extensive soil sampling results that have already been obtained by Sunoco to avoid encountering unanticipated conditions during the excavation process and to refine the grading plans for the Site to ensure that soils that are excavated can be reused on-site.

Prior to the start of mass grading activities, HRP will collect soil samples for laboratory analysis in the areas where soils are targeted to be cut (see Figure 2). As mentioned above, HRP has intentionally designed the cut/fill plan for the Site to avoid known areas of LNAPL, and HRP will ensure that any revisions to its cut/fill plan will likewise avoid known areas of LNAPL. For pre-excavation characterization sampling purposes prior to bulk soil movement, the soil that is proposed to be excavated will be divided into 3-dimensional "cells" of approximately 2,000 cubic yards each. Figure 4 shows a conceptual layout of pre-characterized sampling cells.

HRP will submit one discrete and one composite soil sample from each cell for laboratory analysis. Consistent with the sampling protocols in PADEP's January 2020 Management of Fill Policy (PADEP, 2020), HRP will use discrete samples for analysis of volatile organic compounds ("VOCs") and composite samples for analysis of semi-volatile organic compounds ("SVOCs") and lead. This pre-excavation characterization sampling frequency and approach was selected by HRP to maintain general consistency with PADEP's January 2020 Management of Fill Policy (PADEP, 2020), while also taking into account the extensive soil sampling that has already been completed at the Site. Movement of impacted soil at the Site is not subject to either the Management of

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There are several reasons why a pre-excavation characterization sampling frequency of one soil sample per 2,000 cubic yards is appropriate for the anticipated soil movement that is planned at the Site:

Fill Policy or General Permit No. WMGR096 (Beneficial Use of Regulated Fill) because the work will be undertaken entirely on-site (i.e., within a "project area") and conditions at the Site are being addressed under Act 2. HRP selected this pre-excavation characterization sampling frequency to be generally consistent with the way that other similar soils are evaluated for use as either clean fill or regulated fill in Pennsylvania and to maintain consistency and alignment with Sunoco's Act 2 activities. Pre-excavation characterization soil sampling results will be shared with Sunoco to be integrated into Sunoco's Act 2 work as appropriate in accordance with 25 Pa. Code § 250.408.

A 4-point composite soil sample will be collected from each pre-characterization "cell" using a direct push drill rig or other similar sample collection method. Soil collected from the four composite soil sample locations will be screened in the field using a photoionization detector ("PID"), and a discrete soil sample will be collected from the location with the highest PID response. The discrete sample from each cell will be analyzed for the VOCs on the target compound list included in Table 1, and the composite sample from each cell will be analyzed for the SVOCs and metals on the target compound list included in Table 1. Based on initial pre-excavation sample results, some samples may also be analyzed via the Synthetic Precipitation Leaching Procedure ("SPLP") to support the development of alternative standards for the soil-to-groundwater pathway, as needed.

In addition to the pre-excavation characterization soil samples described above, HRP will collect a discrete soil sample from the next two feet of soil underlying each cell in accordance with Act 2 to evaluate conditions in the stratum of soil that will be uncovered through excavation activities. This sampling will be performed so that the underlying soils in the cut areas (i.e., soils from approximately 0 to 2 feet below the bottom of a cut) are fully characterized for purposes of Act 2. The discrete soil samples will be analyzed for the regulated substances on the target compound list included in Table 1. Based on its plans for redeveloping the Site, HRP anticipates that most soils that are relocated at the Site will be placed under development components (e.g., building slabs, drive aisles, parking lots, new roadways, and other paved areas as described in cleanup plans to be submitted to PADEP) that will serve as barriers to exposure and/or infiltration. In addition, HRP anticipates that most soils that are uncovered through bulk soil removal will likewise ultimately be covered by development components. To the extent certain soils are identified as potentially suitable for use in an area not covered by a barrier, additional

a. Extensive analytical results are already available for soils at the Site based on previously completed sampling undertaken by Sunoco. The proposed pre-excavation characterization sampling will further characterize the soils to be relocated during redevelopment but will not constitute the complete data set of chemical sampling results available to understand the nature of soil impacts.

b. The number of pre-excavation characterization samples will be significant given the volume of soil to be managed, so there will be sufficient data to evaluate concentration statistics.

c. Because of the planned redevelopment of the Site, most soils that are moved will ultimately be located under development components that will serve as exposure barriers.

sampling, analysis, and risk assessment will be conducted by HRP to confirm that the soils do not pose an unacceptable risk and will attain the site-specific standard. Likewise, to the extent that soils that are uncovered through bulk soil removal will remain exposed upon completion of redevelopment and not covered by a barrier, additional sampling and analysis will be conducted of those soils by HRP to confirm that they may remain uncovered without posing unacceptable risks.

Pre-excavation characterization soil sampling results will be promptly provided to Sunoco for use in conjunction with its remediation activities under Act 2, including completion of remedial investigations and risk assessments after such soils are moved to their final location. As described in Section 2 of this Plan, if evidence of discrete regulated waste materials separate from soil or groundwater are identified during the pre-excavation characterization sampling, HRP will coordinate with Sunoco, PADEP and EPA so that such waste materials can be properly addressed in accordance with applicable requirements as described in Section V.A of the Pennsylvania Land Recycling Program Technical Guidance Manual (PADEP, 2019).

4. <u>Development of Soil Categories</u>

The pre-excavation characterization data will be used to divide the soils into categories that will dictate how the soils will be managed. The actual soil categories will depend on the preexcavation characterization sampling results. However, Table 3 summarizes the soil categories which may be relevant to soil management at the Site in connection with the anticipated redevelopment activities. These categories use the various numeric values for soils that PADEP has developed based on direct contact and soil-to-groundwater pathways to implement the statewide health standard for soils under Act 2 as found in 25 Pa. Code Chapter 250, Tables 3 and 4. The lower of the direct contact and soil-to-groundwater numeric values are used to determine the medium specific concentrations ("MSCs") for soils which in turn are dependent on whether the soils are present at residential or nonresidential properties, whether those properties are located overlying groundwater qualifying as used aquifers, and, for soils at nonresidential properties, whether the soils qualify as surface soils or subsurface soils. As used in Table 3, nonresidential soil MSCs refer to the MSCs for surface soils at nonresidential properties overlying used aquifers, direct contact numeric values are the values for regulated substances set forth in Tables 3.A and 4.A of 25 Pa. Code Chapter 250, and soil-to-groundwater numeric values are the values for regulated substances set forth in Tables 3.B and 4.B of 25 Pa. Code Chapter 250.

Table 3 refers to two types of caps – caps that serve as exposure barriers and caps that serve as impervious barriers. As described in Table 2, building slabs, drive aisles, parking lots, new roadways, and other paved areas as described in cleanup plans to be submitted to PADEP constitute impervious barriers and also serve as exposure barriers. By contrast, caps consisting of soils and porous paving can serve as exposure barriers but not impervious barriers. Table 3 describes the use of the two different categories of caps in a manner that meets the requirements of Act 2 for purposes of attaining the site-specific standard under Act 2. HRP anticipates that most soils that are relocated at the Site will be placed under development components that will serve

as caps adequate as engineering controls. If soils are used as a cap, these soils will consist only of either (1) imported material, which will be either clean fill or regulated fill under PADEP's Management of Fill Policy (PADEP, 2020), or (2) soils from the Site that have been identified as appropriate for use as surface soil, using a risk assessment to demonstrate attainment of the site-specific standard.

5. Soil Relocation Planning

The existing soil characterization results, the characterization results associated with decommissioning activities, and the pre-excavation characterization results will be used to assign each "cell" of soil to a soil category. If the pre-excavation characterization results indicate that the cell qualifies for a different soil category than the existing soil characterization results, the more heavily impacted category will be assigned to that cell. For example, if the pre-excavation characterization results indicate a cell should be classified as containing soils in Category B, but the existing soil characterization results indicate that the soils in the same cell should be classified as Category E, the soils in the cell will be managed as Category E. Likewise, if during bulk soil movement, visual observations or field screening results indicate that a cell appears to be more heavily contaminated than anticipated based on the pre-excavation characterization results and the existing soil characterization results, the soils exhibiting visual or field screening evidence of greater contamination will be re-assigned to the most heavily impacted soil category or additional sampling will be conducted to re-assign a soil category, if warranted based on those sampling results. Because most soils will be located under development components that will serve as caps, this conservative approach to soil categorization is not expected to impede HRP's ability to manage soils at the Site.

After pre-excavation characterization data are evaluated and soil categories are assigned to each cell, color-coded plans will be prepared by HRP and promptly provided to Sunoco showing how the soil in each cut area is categorized. These plans will be used by HRP to manage movement of soil from cut to fill areas. Movement of impacted soils will be conducted by HRP under the oversight of a licensed environmental professional who will ensure that soils are managed consistent with this Plan. <u>Figure 5</u> shows a conceptualized depiction of pre-excavation characterization sampling results.

When redevelopment is complete, HRP anticipates that most soils at the Site will be located under development components (e.g., building slabs, drive aisles, parking lots, new roadways, and other paved areas as described in cleanup plans to be submitted to PADEP) that will serve as barriers to exposure and/or infiltration. If certain soils at the Site are identified as potentially suitable for use in an area not covered by a barrier, additional sampling and analysis will be conducted to support a demonstration that such an area does not pose any unacceptable risk and will attain the site-specific standard consistent with the requirements of Act 2.

6. Additional Issues Relating to Redevelopment Process

(a) Remediation Equipment

Soil excavation and relocation has the potential to disrupt existing remediation equipment (e.g., monitoring wells, extraction wells, pipelines and treatment units) and existing utility infrastructure (e.g., stormwater infrastructure). HRP will make sure that necessary remediation equipment is protected, relocated, or replaced, as needed. HRP intends to decommission the existing wastewater treatment plants at the Site as new stormwater management infrastructure is constructed, in accordance with applicable local and state requirements. The transition to new stormwater infrastructure will be coordinated with the phasing of decommissioning, demolition, soil grading, and development, and HRP will coordinate this transition with Sunoco, which currently relies on operation of the wastewater treatment plants to process effluent from remediation systems.

(b) <u>Potential Vapor Intrusion</u>

While not the subject of this Plan, HRP recognizes the potential for regulated substances present in soil and groundwater and subsurface LNAPL to act as vapor intrusion sources into new buildings constructed at the Site. HRP will install vapor barriers or other vapor mitigation controls (such as subslab venting systems) as part of constructing any buildings or structures at the Site, or, alternatively, will conduct sampling and analysis to demonstrate that such controls are not needed to mitigate potential vapor intrusion into such buildings or structures in accordance with PADEP guidance.

7. <u>Documentation and Next Steps</u>

This Plan presents HRP's approach for soil management during redevelopment at the Site. At least 30 days prior to the start of any soil disturbance, excavation or grading activities, HRP will submit to Sunoco and PADEP the results (including but not limited to the laboratory data reports) of pre-excavation characterization sampling, updated redevelopment plans, and figures showing pre-excavation characterization sampling locations and soil categorization that is consistent with the approach described herein.

HRP will track and document movement of soil at the Site, including but not limited to cubic yards of soil moved, coordinates and depths of the existing locations of the soil to be moved, and coordinates of the new soil locations. Such documentation will enable pre-excavation characterization sampling results coupled with soil sampling results collected by Sunoco as part of evaluating areas of concern under Act 2 to be used to demonstrate conditions in areas where soils are moved and placed.

The development components that will serve as surface caps as described in Table 2 of the Plan and that are constructed during redevelopment will be documented as adequate engineering controls in a subsequent cleanup plan (or plans) for the Site. HRP understands that plans and descriptions of surface caps will need to be included in the cleanup plan(s) and that the cleanup

plan(s) will be subject to the Act 2 public involvement process and will coordinate with concerning the same.	Sunoco

References

Commonwealth of Pennsylvania Department of Environmental Protection (2020). Management of Fill Policy; Document Number 258-2182-773.

Commonwealth of Pennsylvania Department of Environmental Protection (2019). Land Recycling Program Technical Guidance Manual; Document Number 261-0300-101.

Commonwealth of Pennsylvania Department of Environmental Protection (2017). Technical Document; Closure Requirements for Above Ground Storage Tank Systems; Technical Guidance Number 263-4200-001.

Commonwealth of Pennsylvania Department of Environmental Protection (2012). Consent Order and Agreement, in the Matter of: Sunoco, Inc. (R&M) – Seller, Philadelphia Energy Solutions Refining and Marketing LLC – Buyer, Buyer-Seller Agreement re: Philadelphia Refinery.

Langan Engineering & Environmental Services, Inc. (2015). Human Health Risk Assessment Report, Philadelphia Refinery, Philadelphia, Pennsylvania, and Belmont Terminal, Philadelphia, Pennsylvania, and Marcus Hook Industrial Complex, Marcus Hook, Pennsylvania.

TABLE 1
Philadelphia Refinery Target Compound List and Associated Act 2 Soil Cleanup Standards

Target Compound	EPA Analytical Method	CAS No.	Non-Residential Direct Contact Numeric Value (0-2 ft bgs)	Non-Residential Soil to Groundwater Numeric Value
Volatile Compounds				
Benzene	8260	71-43-2	290	0.50
1,2-Dibromoethane (EDB)	8260	106-93-4	3.7	0.0050
1,2-Dichloroethane (EDC)	8260	107-06-2	86	0.5
Ethylbenzene	8260	100-41-4	890	70
Isopropylbenzene (Cumene)	8260	98-82-8	10,000	2,500
Methyl Tertiary Butyl Ether	8260	1634-04-4	8,600	2
Naphthalene	8270	91-20-3	760	25
Toluene	8260	108-88-3	10,000	100
1,2,4-Trimethylbenzene	8260	95-63-6	560	35
1,3,5-Trimethylbenzene	8260	108-67-8	10,000	210
Xylenes (Total)	8260	1330-20-7	8,000	1,000
Semi-Volatile Compounds				
Anthracene	8270	120-12-7	190,000	350
Benzo(a)anthracene	8270	56-55-3	130	430
Benzo(a)pyrene	8270	50-32-8	12	46
Benzo(b)fluoranthene	8270	205-99-2	76	170
Benzo(g,h,i)perylene	8270	191-24-2	190,000	180
Chrysene	8270	218-01-9	760	230
Fluorene	8270	86-73-7	130,000	3,800
Phenanthrene	8270	85-01-8	190,000	10,000
Pyrene	8270	129-00-0	96,000	2,200
Metals				
Lead	6010/6020	7439-92-1	1,000	450

Notes:

1. The Act 2 Standards are subject to change, and the Standards in effect at the time of an Act 2 report submittal will apply.

TABLE 2
Development Component Functions

Development Component	Exposure Barrier	Impervious Barrier
Surface Soil Layer Imported soil used in accessible areas at the ground surface will be subject to PADEP's Management of Fill Policy (PADEP, 2020). Before using site soil in accessible areas at the ground surface, a risk assessment will be conducted to demonstrates attainment of the site-specific standard.	Х	
Building Slab Minimum section will consist of 4 inches of concrete over 4 inches of aggregate subbase	Х	Х
Parking Lot Minimum section will consist of 3.75 inches of concrete or asphalt over 4 inches of aggregate subbase	х	Х
Roadway Minimum section will consist of 5 inches of concrete and/or asphalt over 4 inches of aggregate subbase	х	х
Drive Aisle Minimum section will consist of 5 inches of concrete or asphalt over 4 inches of aggregate subbase	Х	х

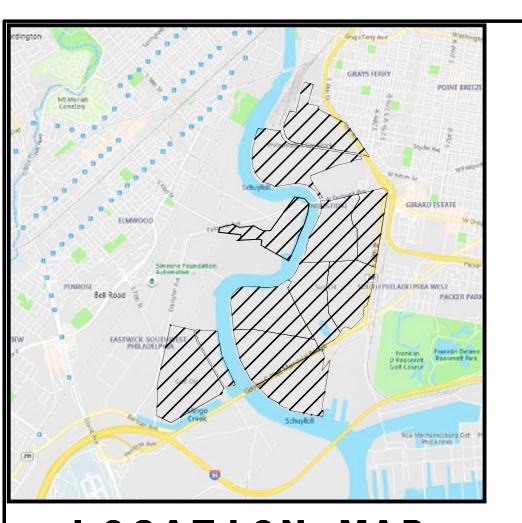
TABLE 3Soil Reuse Categories

Category	Description	Reuse Options
A	Concentrations of target analytes below non-residential soil MSCs.	Soil can be reused: ¹ (1) in areas beneath a surface cap that provides an exposure barrier (e.g., building slabs, parking lots, roadways, or imported soil) that will serve as an engineering control under Act 2 or (2) in areas not beneath a surface cap (e.g., as backfill in utility corridors or in landscaped areas) as long as a risk assessment demonstrates attainment of the site-specific standard.
В	Concentrations of target analytes above nonresidential soil-to-groundwater numeric values but below the nonresidential direct contact numeric values/site-specific lead standard, where direct contact values are higher than the nonresidential soil-to-groundwater numeric values.	Soil can be reused: (1) in areas beneath an impervious surface cap (e.g., building slabs, parking lots, or roadways) that will serve as an engineering control under Act 2 at elevations above the groundwater table or (2) in areas not beneath a surface cap that are more than 500 ft. from a shoreline (i.e., the edge of the Schuylkill River) as long as a risk assessment demonstrates attainment of the site-specific standard.
С	Concentrations of target analytes above the nonresidential direct contact numeric values but below the nonresidential soil-to-groundwater numeric values, where the soil-to-groundwater numeric values are higher than the nonresidential direct contact numeric values.	Soil can be reused in areas beneath a surface cap that provides an exposure barrier (e.g., building slabs, parking lots, roadways, imported soil, or appropriate Site soil) that will serve as an engineering control under Act 2. 1,2
D	Concentrations of target analytes above the nonresidential direct contact numeric values/site-specific lead standard (Langan, 2015) but below site-specific leaching based standards (to be calculated by HRP).	Soil can be reused in areas beneath a surface cap that provides an exposure barrier (e.g., building slabs, parking lots, roadways, imported soil, or appropriate Site soil) that will serve as an engineering control under Act 2. 1,2
E	Concentrations of target analytes above the nonresidential direct contact numeric values/site-specific lead standard and above both nonresidential soil-to-groundwater numeric values and site-specific leaching-based standards (to be calculated by HRP).	Soil can be reused beneath an impervious surface cap (e.g., building slabs, parking lots, or roadways) that will serve as an engineering control under Act 2 at elevations above the groundwater table.

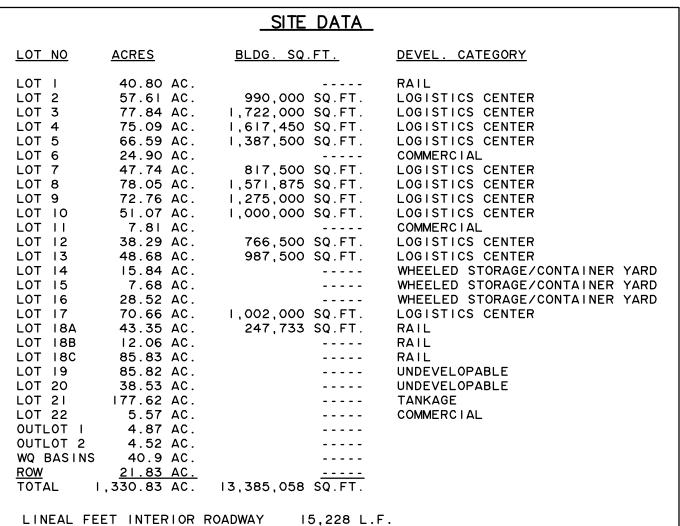
Notes:

- 1. Imported soil used as an exposure barrier will be subject to PADEP's Management of Fill Policy (PADEP, 2020).
- 2. Site soil will only be considered appropriate for use as an exposure barrier if a risk assessment demonstrates attainment of the site-specific standard.
- 3. Relocated soil will likely all be placed at elevations above the groundwater table because existing grades are above the groundwater table and the objective of soil relocation is to raise grades in areas of current relative lower elevation.

Figure 1Conceptual Master Plan



LOCATION MAP



THE AREA FOR WQ BASINS NOs. 4 8 5 ARE INCLUDED IN OUTLOT NOs. I & 2 AREA, RESPECTIVELY.

DEVELOPMENT PHASING PLAN						
<u>PHASE</u>	LOTS	MONTH STARTED POST CLOSING	CUMUL. ACREAGE	CUMUL. BLDG SQ.FT.		
1	1,16,17,18	18	281.22	1,249,733		
2	9,10,15	30	131.51	2,275,000		
3	7,8,22	42	131.36	2,389,375		
4	11,12,13,14	54	110.62	1,754,000		
5	5,6	66	91.49	1,387,500		
6	4	78	75.09	1,617,450		
7	2,3	90	135.45	2,712,000		

LOT 20

38.53 AC.

LOT 21

177.62 AC.

PES REDEVELOPMENT PHILADELPHIA, PENNSYLVANIA **WQ BASIN 8** WHEELED 6.3 AC. STORAGE/CONTAINER YARD OR RNG ANAEROBIC DIGESTER SITE 500 250 0 500 SCALE: 1 INCH = 500 FEET PROPOSED PAVEMENT LOT 17 600' X 1,670' 1,002,000 SF BUILDING LOT 15 WHEELED STORAGE/ CONTAINERYARD 7.68 AC. 70.66 AC. REFRIGERATED
WAREHOUSE W/
INTERIOR TRACK
LOT 18 A **247,733 SF BUILDING** LOT 18 B 12.06 AC. LOT 18 C

85.83 AC.

LONG TERM BULK STORAGE / TANK CAR TRANSLOAD OPERATIONS PASSYUNK AVE. WQ BASIN 7 7.9 AC. WQ BASIN 3 4.0 AC. LOT 14 WHEELED STORAGE/ CONTAINER YARD 15.84 AC. 85.82 AC. LOT 13 625' X 1,580' 987,500 SF BUILDING 625' X 1,600' 1,000,000 SF 48.68 AC. BUILDING 51.07 AC. CULVERT REMAIN LOT 12 525' X 1,460' 766,500 SF BUILDING 38.29 AC. LOT 11 COMMERCIAL LOT 22 COMMERCIA HARTRANFT ST. 5.57 AC. EXISTING EASEMENT TO REMAIN LOT 9 625' X 2,040' 1,275,000 SF BUILDING 72.76 AC. LOT 6 COMMERCIAL 24.90 AC. LOT 7 500' X 1,635' 817,500 SF **WQ BASIN 6** BUILDING 47.74 AC. LOT 8 625' X 2,220' 625' X 2,515' 1,387,500 SF 1,571,875 SF BUILDING BUILDING 66.59 AC. 78.05 AC. WQ BASIN 5 4.0 AC. 1,617,450 SF BUILDING **WQ BASIN 1** 75.09 AC. 14.1 AC. OUTLOT 2 4.52 AC. LOT 3 615' X 2,800' 1,722,000 SF BUILDING WQ BASIN 4 4.5 AC. OUTLOT 1 4.87 AC. LOT 2 600' X 1,650' 990,000 SF BUILDING WQ BASIN 2 5.9 AC. LOT 1 RAIL YARD 40.80 AC. CEMCON, Ltd. Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100

CONCEPTUAL MASTER PLAN C

FOR

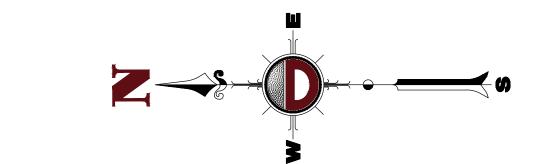
PREPARED FOR: HILCO DEVELOPMENT PARTNERS 401 N. MICHIGAN AVE., SUITE 1630 CHICAGO, ILLINOIS 60611 (312) 796-0920

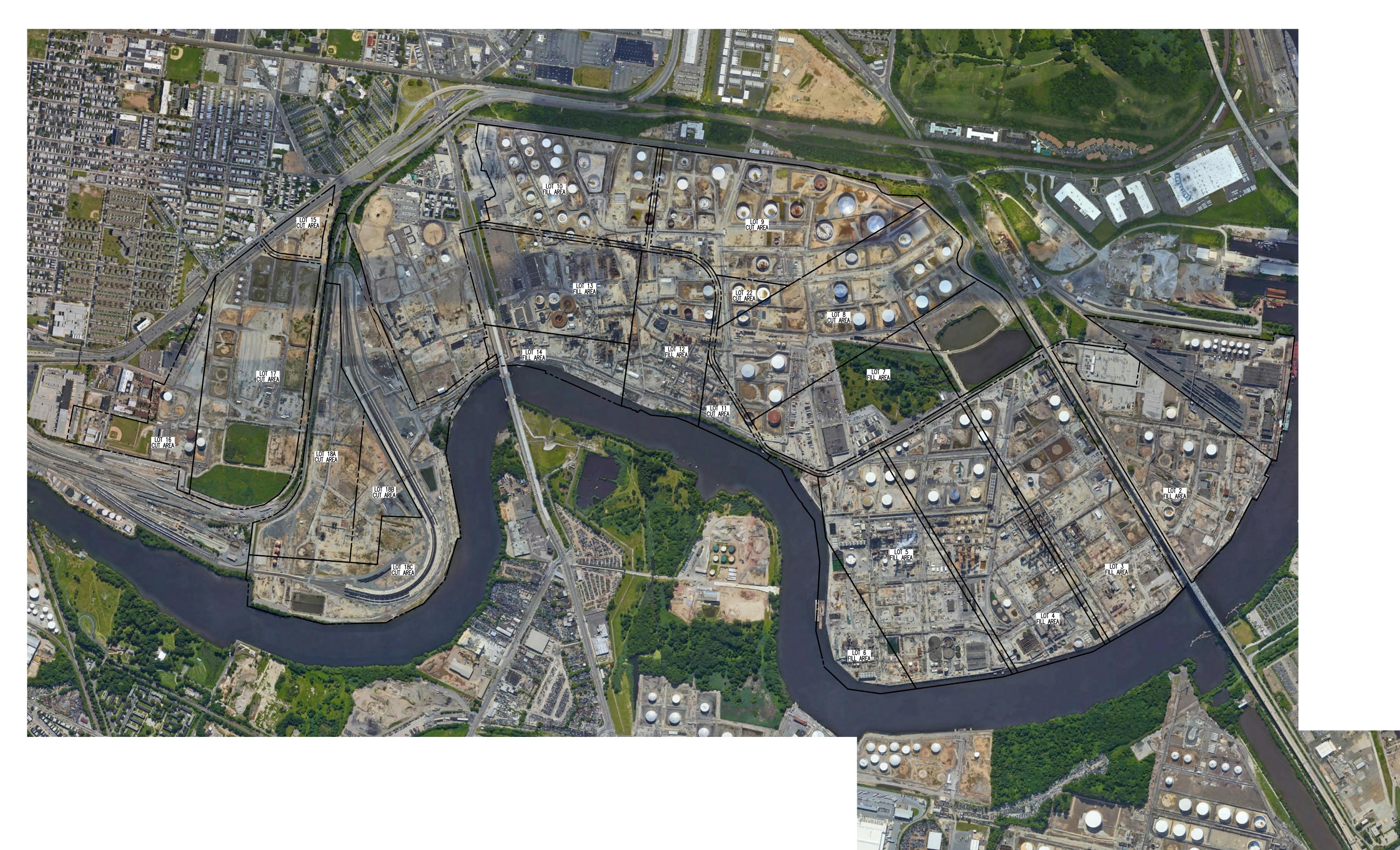
Aurora, Illinois 60502-9675 PH: 630.862.2100 E-Mail: cadd@cemcon.com FAX: 630.862.2199

Website: www.cemcon.com FILE NAME: 2020-03-23 CONCEPT C FLD. BK. / PG. NO.: ----DRAWN BY: KMS COMPLETION DATE: 03-23-20 JOB NO.: 842.003 PROJECT MANAGER: MMW

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Figure 2 Anticipated Cut Fill





THIIS PLAN SET IS FOR PERMITTING PURPOSES

ONLY AND MAY NOT BE USED FOR GONSTRUCTION

ONE CRC

RPF

CRC

RPF

CRC

RPF

CITY OF PHILADELPHIA, PHILADELPHIA COUNTY, PENNSYLVANIA

REV. DATE

ONLY OF PHILADELPHIA, PHILADELPHIA COUNTY, PENNSYLVANIA

REV. DATE

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AUSTIN, TEXAS • T: 512.646.2646
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JUSTIN A. GEONNOTTI

PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 080629

ROBERT P. FREUD

PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 75022

DRAFT IN PROGRESS
SUBGRADE
CUT FILL EXHIBIT

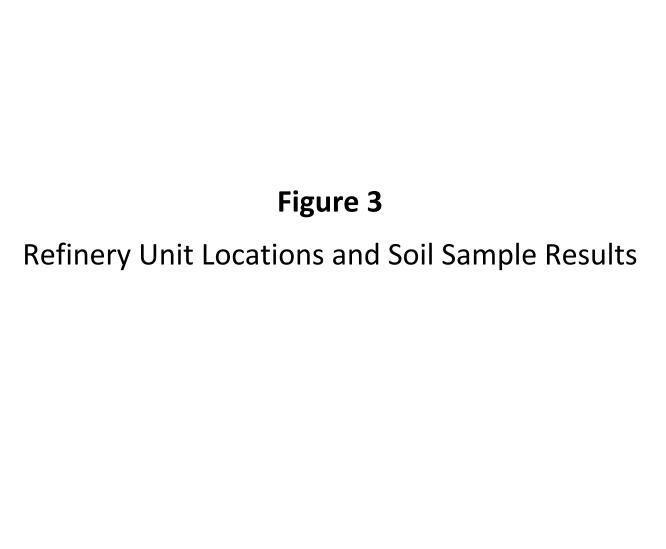
(v) 02/03/20

PROJECT No: 2715-99-003

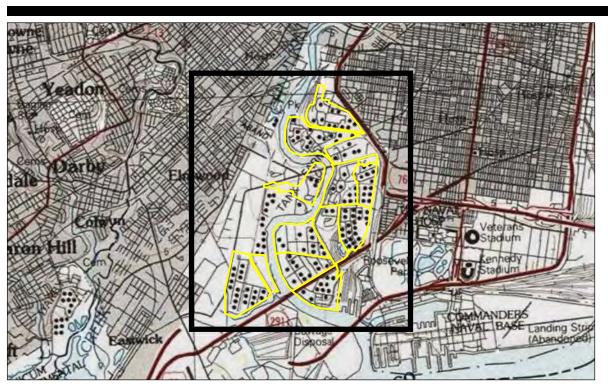
SHEET No: Rev. #:

OF

NOTE: AREAS OF CUT AND FILL ARE SUBJECT TO CHANGE







1. Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet 2. Sources: Stantec 3. Aerial & Topo Source: Copyright:© 2013 National Geographic Society, i-cubed PEMA Philadelphia County 2018 Aerial Imagery DEEP SOIL EXCEEDANCE OF THE PADEP NON-RESIDENTIAL, UNSATURATED STATEWIDE HEALTH STANDARD GREATER THAN 2'

NO DEEP SOIL EXCEEDANCE OF THE PADEP NON-RESIDENTIAL, UNSATURATED STATEWIDE HEALTH STANDARD GREATER THAN 2'

WELL LOCATION DESTROYED WELL LOCATION

APPROXIMATE LOCATION OF PHILADELPHIA WATER DEPARTMENT SEWER

PROPOSED SOIL SAMPLING AREA WITHIN REFINERY UNIT PROPOSED SOIL SAMPLING AREAS WITHIN DIVIDED REFINERY UNIT AREA OF INTEREST (AOI)

PHILADELPHIA GAS WORKS PROPERTY BOUNDARY

Figure No.

Project Location

City of Philadelphia,

REFINERY UNIT LOCATIONS AND SOIL SAMPLE RESULTS

Client/Project PHILADELPHIA REFINERY OPERATIONS, A SERIES OF EVERGREEN RESOURCES GROUP, LLC PHILADELPHIA REFINING COMPLEX 3144 PASSYUNK AVENUE, PHILADELPHIA, PA 19145





Figure 4

Conceptual Soil Pre-Characterization Sampling Cell Layout

FIGURE 4
Conceptual Soil Pre-Characterization Sampling Cell Layout

Conceptual Plan View

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

Conceptual Vertical Cross-Section

0-3 ft bgs	1	2	3	4
3-6 ft bgs	21	22	23	24
6-9 ft bgs	41	42	43	44

Conceptual cut area

Conceptual precharacterization sample "cell"

Figure 5

Hypothetical Pre-Characterization Sampling Results Summary

FIGURE 5
Hypothetical Pre-Characterization Sampling Results Summary

Conceptual Plan View

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

Conceptual Vertical Cross-Section

0-3 ft bgs

3-6 ft bgs

6-9 ft bgs

1	2	3	4
21	22	23	24
41	42	43	44

Conceptual cut area

Conceptual precharacterization sample "cell"

"Category D" Soils

"Category C" Soils

"Category B" Soils

"Category A" Soils



June 18, 2020

Mr. Jeremy Grey Hilco Redevelopment Partners 111 S. Wacker Dr., Suite 3000 Chicago, IL 60606

Re:

Soil Management Plan Approval eFACTS PF No. 780190 PES Philadelphia Refinery 3144 Passyunk Avenue City of Philadelphia

Philadelphia County

Dear Mr. Grey:

The Department of Environmental Protection (DEP) reviewed the June 15, 2020 document titled "Soil Management Plan," (plan) for the property referenced above. The plan was prepared by HRP Philadelphia Holdings, LLC (HRP). The Philadelphia Energy Solutions (PES) site entered DEP's Land Recycling Program, administered through the Land Recycling and Environmental Remediation Standards Act (Act 2), in 2006. The Act 2 cleanup is being performed by Evergreen Resources Management. Evergreen is also participating in DEP's and U.S. EPA's One Cleanup Program.

The Soil Management Plan describes how HRP will further characterize contamination in soil, categorize soil for reuse at the site, manage contaminated soil and waste, integrate site grading with remedy implementation, and perform this work in a manner compatible with Act 2 cleanup requirements.

DEP has reviewed the Soil Management Plan in cooperation with U.S. EPA. DEP hereby approves the plan for the PES Philadelphia Refinery site.

Insofar as the plan describes anticipated Act 2 remedies for the site, the approval expressed herein does not represent an approval of any future Act 2 cleanup plan.

Thank you for your cooperation in working with DEP in the remediation of this site. If you have any questions or need further information regarding this matter, please contact C. David Brown at cdbrown@pa.gov or by telephone at 484.250.5792.

Sincerely,

Ragesh R. Patel Regional Manager

Environmental Cleanup and Brownfields

cc: Mr. Cullinan—Evergreen

Mr. Barksdale—PES

Mr. Gotthold—EPA Region 3 Philadelphia Health Department

Philadelphia L&I

Philadelphia Law Department

Mr. Brown, P.G. Mr. Shankar, P.E. Mr. Glass, Esq. Regional File

TABLE 1
Philadelphia Refinery Target Compound List and Associated Act 2 Soil Cleanup Standards

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Metals				
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Notes:

1. The Act 2 Standards are subject to change, and the Standards in effect at the time of an Act 2 report submittal will apply.



ANALYTICAL REPORT

Lab Number: L2340632

Client: Langan Engineering & Environmental

1818 Market Street

Suite 3300

220181801

Philadelphia, PA 19103-3638

ATTN: Adam Goldberg Phone: (215) 845-8946

Project Name: PESRM

Project Number:

Report Date: 04/03/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PESRM
Project Number: 220181801

 Lab Number:
 L2340632

 Report Date:
 04/03/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2340632-01	FIELD BLANK	WATER	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 13:35	07/14/23
L2340632-02	PES-M_1.0-1.5_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 13:30	07/14/23
L2340632-03	PES-G_1.7-2.2_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 13:35	07/14/23
L2340632-04	PEB-D_4.5-5.0_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:00	07/14/23
L2340632-05	PEB-H_4.5-5.0_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:05	07/14/23
L2340632-06	PEB-I_4.5-5.0_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:15	07/14/23
L2340632-07	PEB-C_4.5-5.0_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:20	07/14/23
L2340632-08	PEB-B_4.5-5.0_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:25	07/14/23
L2340632-09	PEB-F_4.5-5.0_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:30	07/14/23
L2340632-10	PEB-J_6.0-6.5_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:45	07/14/23
L2340632-11	PES-K_3.1-3.6_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:50	07/14/23
L2340632-12	PES-L_3.1-3.6_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:55	07/14/23
L2340632-13	PES-A_4.2-4.7_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 14:55	07/14/23
L2340632-14	PES-E_5.2-5.7_071423	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 15:00	07/14/23
L2340632-15	DUP-1	SOIL	3144 W. PASSYUNK PHILADELPHIA, PA	07/14/23 00:00	07/14/23



Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.					



Case Narrative (continued)

Report Revision

April 03, 2024: The Volatile Organics analyte list has been amended on L2340632-01 through -15. August 09, 2023: This report includes the results of the Volatile Organics Low-Level analysis performed on L2340632-04, -05, -06, -09, and -12, performed at the client's request.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2340632-02: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (154%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2340632-03D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (148%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-04, -05, -06, -09, and -12: The Low-Level analysis was performed with the method required holding time exceeded.

L2340632-04: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (142%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-04 Low-Level: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (293%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-05: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (133%);



Case Narrative (continued)

however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-05 Low-Level: The surrogate recoveries were outside the acceptance criteria for toluene-d8 (156%) and 4-bromofluorobenzene (2058%) due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. The sample was analyzed as a High Level Methanol in order to quantitate result(s) within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to sample non-homogeneity.

L2340632-06: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (134%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-06 Low-Level: The surrogate recovery is outside the acceptance criteria for toluene-d8 (137%) and 4-bromofluorobenzene (443%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-07: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (138%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-08 and -10: The sample was analyzed as a High Level Methanol based upon screen results. The sample was then analyzed as a Low Level in order to achieve lower reporting limits. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.

L2340632-08 Low-Level: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (323%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-09 Low-Level: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (201%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the



Case Narrative (continued)

chromatogram is included as an attachment to this report.

L2340632-10 Low-Level: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (276%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-11: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (166%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-12: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (185%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-12 Low-Level: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (787%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-13: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (143%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2340632-14 Low-Level: The surrogate recoveries were outside the acceptance criteria for toluene-d8 (529%) and 4-bromofluorobenzene (384%) due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. The sample was analyzed as a High Level Methanol in order to quantitate result(s) within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

L2340632-15: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (151%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.



 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

Case Narrative (continued)

Semivolatile Organics

L2340632-07D and -08D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

The WG1804158-4 Laboratory Duplicate RPD for lead (65%), performed on L2340632-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

(attlin Wallet Caitlin Walukevich

Authorized Signature:

Title: Technical Director/Representative

ALPHA

Date: 04/03/24

ORGANICS



VOLATILES



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-01 Date Collected: 07/14/23 13:35

Client ID: FIELD BLANK Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water Extraction Method: EPA 8011
Analytical Method: 1.8011 Extraction Date: 07/17/23 13:40

Analytical Method: 1,8011 Extraction Date: 07/17/23 13:40
Analytical Date: 07/17/23 18:34

Analyst: JKH/G

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Microextractables by GC - Westborough Lab							
1,2-Dibromoethane	ND		ug/l	0.010	0.005	1	Α



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-01 Date Collected: 07/14/23 13:35

Client ID: FIELD BLANK Date Received: 07/14/23
Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/18/23 16:57

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Wes	tborough Lab					
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
	ND		<u> </u>		0.17	1
Benzene			ug/l	0.50		l
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
Naphthalene	ND		ug/l	1.0	0.22	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	128	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	98	70-130	
Dibromofluoromethane	102	70-130	



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-02 Date Collected: 07/14/23 13:30

Client ID: PES-M_1.0-1.5_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 11:53

Analyst: AJK Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by EPA 5035 High - Westborough Lab									
Methyl tert butyl ether	ND		mg/kg	0.11	0.011	1			
Benzene	0.050		mg/kg	0.028	0.0095	1			
1,2-Dichloroethane	ND		mg/kg	0.057	0.015	1			
Toluene	0.079		mg/kg	0.057	0.031	1			
1,2-Dibromoethane	ND		mg/kg	0.028	0.017	1			
Ethylbenzene	0.23		mg/kg	0.057	0.0081	1			
p/m-Xylene	0.40		mg/kg	0.11	0.032	1			
o-Xylene	0.16		mg/kg	0.057	0.017	1			
Xylenes, Total	0.56		mg/kg	0.057	0.017	1			
Isopropylbenzene	5.1		mg/kg	0.057	0.0062	1			
1,3,5-Trimethylbenzene	0.11		mg/kg	0.11	0.011	1			
1,2,4-Trimethylbenzene	0.088	J	mg/kg	0.11	0.019	1			
Naphthalene	0.49		mg/kg	0.23	0.037	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	87		70-130	
Toluene-d8	102		70-130	
4-Bromofluorobenzene	154	Q	70-130	
Dibromofluoromethane	78		70-130	

Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-03 D Date Collected: 07/14/23 13:35

Client ID: PES-G_1.7-2.2_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 12:16

Analyst: AJK Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by EPA 5035 High	Volatile Organics by EPA 5035 High - Westborough Lab									
Methyl tert butyl ether	ND		mg/kg	0.59	0.059	5				
Benzene	0.11	J	mg/kg	0.15	0.049	5				
1,2-Dichloroethane	ND		mg/kg	0.30	0.076	5				
Toluene	0.39		mg/kg	0.30	0.16	5				
1,2-Dibromoethane	ND		mg/kg	0.15	0.086	5				
Ethylbenzene	13.		mg/kg	0.30	0.042	5				
p/m-Xylene	0.66		mg/kg	0.59	0.16	5				
o-Xylene	0.27	J	mg/kg	0.30	0.086	5				
Xylenes, Total	0.93	J	mg/kg	0.30	0.086	5				
Isopropylbenzene	27.		mg/kg	0.30	0.032	5				
1,3,5-Trimethylbenzene	0.42	J	mg/kg	0.59	0.057	5				
1,2,4-Trimethylbenzene	0.39	J	mg/kg	0.59	0.099	5				
Naphthalene	1.3		mg/kg	1.2	0.19	5				

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	79		70-130	
Toluene-d8	98		70-130	
4-Bromofluorobenzene	148	Q	70-130	
Dibromofluoromethane	75		70-130	



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-04 Date Collected: 07/14/23 14:00

Client ID: PEB-D_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 12:39

Analyst: AJK Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035	High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.12	0.012	1	
Benzene	0.082		mg/kg	0.030	0.010	1	
1,2-Dichloroethane	ND		mg/kg	0.060	0.015	1	
Toluene	0.057	J	mg/kg	0.060	0.032	1	
1,2-Dibromoethane	ND		mg/kg	0.030	0.018	1	
Ethylbenzene	0.69		mg/kg	0.060	0.0085	1	
p/m-Xylene	0.64		mg/kg	0.12	0.034	1	
o-Xylene	0.14		mg/kg	0.060	0.017	1	
Xylenes, Total	0.78		mg/kg	0.060	0.017	1	
Isopropylbenzene	1.2		mg/kg	0.060	0.0065	1	
1,3,5-Trimethylbenzene	0.40		mg/kg	0.12	0.012	1	
1,2,4-Trimethylbenzene	1.2		mg/kg	0.12	0.020	1	
Naphthalene	0.59		mg/kg	0.24	0.039	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	89		70-130	
Toluene-d8	96		70-130	
4-Bromofluorobenzene	142	Q	70-130	
Dibromofluoromethane	88		70-130	



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-04 Date Collected: 07/14/23 14:00

Client ID: PEB-D_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/07/23 18:20

Analyst: JIC Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 I	ow - Westborough Lab						
Methyl tert butyl ether	0.00075	J	mg/kg	0.0020	0.00020	1	
Benzene	0.0016		mg/kg	0.00050	0.00017	1	
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026	1	
Toluene	0.0013		mg/kg	0.0010	0.00055	1	
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029	1	
Ethylbenzene	0.011		mg/kg	0.0010	0.00014	1	
p/m-Xylene	0.018		mg/kg	0.0020	0.00056	1	
o-Xylene	0.012		mg/kg	0.0010	0.00029	1	
Xylenes, Total	0.030		mg/kg	0.0010	0.00029	1	
Isopropylbenzene	0.032		mg/kg	0.0010	0.00011	1	
1,3,5-Trimethylbenzene	0.022		mg/kg	0.0020	0.00019	1	
1,2,4-Trimethylbenzene	0.016		mg/kg	0.0020	0.00034	1	
Naphthalene	0.019		mg/kg	0.0040	0.00065	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	104		70-130	
Toluene-d8	121		70-130	
4-Bromofluorobenzene	293	Q	70-130	
Dibromofluoromethane	92		70-130	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-05 Date Collected: 07/14/23 14:05

Client ID: PEB-H_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

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Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 13:03

Analyst: AJK Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by EPA 5035 High - Westborough Lab								
Methyl tert butyl ether	ND		mg/kg	0.20	0.020	1		
Benzene	0.18		mg/kg	0.049	0.016	1		
1,2-Dichloroethane	ND		mg/kg	0.098	0.025	1		
Toluene	0.087	J	mg/kg	0.098	0.053	1		
1,2-Dibromoethane	ND		mg/kg	0.049	0.029	1		
Ethylbenzene	0.49		mg/kg	0.098	0.014	1		
p/m-Xylene	0.82		mg/kg	0.20	0.055	1		
o-Xylene	0.15		mg/kg	0.098	0.028	1		
Xylenes, Total	0.97		mg/kg	0.098	0.028	1		
Isopropylbenzene	1.2		mg/kg	0.098	0.011	1		
1,3,5-Trimethylbenzene	0.82		mg/kg	0.20	0.019	1		
1,2,4-Trimethylbenzene	1.9		mg/kg	0.20	0.033	1		
Naphthalene	2.1		mg/kg	0.39	0.064	1		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	98		70-130	
Toluene-d8	94		70-130	
4-Bromofluorobenzene	133	Q	70-130	
Dibromofluoromethane	98		70-130	

Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-05 Date Collected: 07/14/23 14:05

Client ID: PEB-H_4.5-5.0_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/07/23 17:54

Analyst: JIC Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 I	_ow - Westborough Lab						
Methyl tert butyl ether	0.00051	J	mg/kg	0.0024	0.00024	1	
Benzene	0.030		mg/kg	0.00061	0.00020	1	
1,2-Dichloroethane	ND		mg/kg	0.0012	0.00031	1	
Toluene	0.010		mg/kg	0.0012	0.00066	1	
1,2-Dibromoethane	ND		mg/kg	0.00061	0.00036	1	
Ethylbenzene	0.083		mg/kg	0.0012	0.00017	1	
p/m-Xylene	0.23		mg/kg	0.0024	0.00068	1	
o-Xylene	0.030		mg/kg	0.0012	0.00035	1	
Xylenes, Total	0.26		mg/kg	0.0012	0.00035	1	
Isopropylbenzene	0.82	Е	mg/kg	0.0012	0.00013	1	
1,3,5-Trimethylbenzene	0.37	E	mg/kg	0.0024	0.00023	1	
1,2,4-Trimethylbenzene	0.84	Е	mg/kg	0.0024	0.00040	1	
Naphthalene	0.035		mg/kg	0.0048	0.00079	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	106		70-130	
Toluene-d8	156	Q	70-130	
4-Bromofluorobenzene	2060	Q	70-130	
Dibromofluoromethane	79		70-130	

Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-06 Date Collected: 07/14/23 14:15

Client ID: PEB-I_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 13:26

Analyst: AJK Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035	High - Westborough Lab					
Methyl tert butyl ether	ND		mg/kg	0.10	0.010	1
Benzene	0.21		mg/kg	0.026	0.0086	1
1,2-Dichloroethane	ND		mg/kg	0.052	0.013	1
Toluene	0.13		mg/kg	0.052	0.028	1
1,2-Dibromoethane	ND		mg/kg	0.026	0.015	1
Ethylbenzene	1.3		mg/kg	0.052	0.0073	1
p/m-Xylene	1.6		mg/kg	0.10	0.029	1
o-Xylene	0.46		mg/kg	0.052	0.015	1
Xylenes, Total	2.1		mg/kg	0.052	0.015	1
Isopropylbenzene	2.6		mg/kg	0.052	0.0056	1
1,3,5-Trimethylbenzene	0.58		mg/kg	0.10	0.010	1
1,2,4-Trimethylbenzene	1.9		mg/kg	0.10	0.017	1
Naphthalene	0.85		mg/kg	0.21	0.034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	88		70-130	
Toluene-d8	95		70-130	
4-Bromofluorobenzene	134	Q	70-130	
Dibromofluoromethane	87		70-130	

Project Name: Lab Number: **PESRM** L2340632

Project Number: Report Date: 220181801 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-06 Date Collected: 07/14/23 14:15

Date Received: 07/14/23 Client ID: PEB-I_4.5-5.0_071423 Field Prep: Not Specified

3144 W. PASSYUNK PHILADELPHIA, PA Sample Location:

Sample Depth:

Matrix: Soil Analytical Method: 1,8260D Analytical Date: 08/07/23 17:28

Analyst: JIC 85% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 L	ow - Westborough Lab						
Methyl tert butyl ether	0.00050	J	mg/kg	0.00085	0.00008	1	
Benzene	0.0040		mg/kg	0.00021	0.00007	1	
1,2-Dichloroethane	ND		mg/kg	0.00042	0.00011	1	
Toluene	0.0022		mg/kg	0.00042	0.00023	1	
1,2-Dibromoethane	ND		mg/kg	0.00021	0.00012	1	
Ethylbenzene	0.017		mg/kg	0.00042	0.00006	1	
p/m-Xylene	0.022		mg/kg	0.00085	0.00024	1	
o-Xylene	0.0087		mg/kg	0.00042	0.00012	1	
Xylenes, Total	0.031		mg/kg	0.00042	0.00012	1	
Isopropylbenzene	0.054		mg/kg	0.00042	0.00004	1	
1,3,5-Trimethylbenzene	0.011		mg/kg	0.00085	0.00008	1	
1,2,4-Trimethylbenzene	0.026		mg/kg	0.00085	0.00014	1	
Naphthalene	0.0083		mg/kg	0.0017	0.00028	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	113		70-130	
Toluene-d8	137	Q	70-130	
4-Bromofluorobenzene	443	Q	70-130	
Dibromofluoromethane	100		70-130	

Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-07 Date Collected: 07/14/23 14:20

Client ID: PEB-C_4.5-5.0_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 13:49

Analyst: AJK Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High -	Westborough Lab)				
Methyl tert butyl ether	ND		mg/kg	0.12	0.012	1
Benzene	0.22		mg/kg	0.030	0.0099	1
1,2-Dichloroethane	ND		mg/kg	0.059	0.015	1
Toluene	0.043	J	mg/kg	0.059	0.032	1
1,2-Dibromoethane	ND		mg/kg	0.030	0.017	1
Ethylbenzene	6.7		mg/kg	0.059	0.0084	1
p/m-Xylene	4.2		mg/kg	0.12	0.033	1
o-Xylene	0.17		mg/kg	0.059	0.017	1
Xylenes, Total	4.4		mg/kg	0.059	0.017	1
Isopropylbenzene	3.3		mg/kg	0.059	0.0065	1
1,3,5-Trimethylbenzene	3.7		mg/kg	0.12	0.011	1
1,2,4-Trimethylbenzene	12.		mg/kg	0.12	0.020	1
Naphthalene	9.0		mg/kg	0.24	0.039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	90		70-130	
Toluene-d8	98		70-130	
4-Bromofluorobenzene	138	Q	70-130	
Dibromofluoromethane	92		70-130	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-08 Date Collected: 07/14/23 14:25

Client ID: PEB-B_4.5-5.0_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 14:13

Analyst: AJK Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 H	High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.12	0.012	1	
Benzene	0.065		mg/kg	0.031	0.010	1	
1,2-Dichloroethane	ND		mg/kg	0.062	0.016	1	
Toluene	0.034	J	mg/kg	0.062	0.034	1	
1,2-Dibromoethane	ND		mg/kg	0.031	0.018	1	
Ethylbenzene	0.55		mg/kg	0.062	0.0088	1	
p/m-Xylene	0.22		mg/kg	0.12	0.035	1	
o-Xylene	0.036	J	mg/kg	0.062	0.018	1	
Xylenes, Total	0.26	J	mg/kg	0.062	0.018	1	
Isopropylbenzene	0.79		mg/kg	0.062	0.0068	1	
1,3,5-Trimethylbenzene	0.28		mg/kg	0.12	0.012	1	
1,2,4-Trimethylbenzene	0.91		mg/kg	0.12	0.021	1	
Naphthalene	1.7		mg/kg	0.25	0.040	1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	94	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	130	70-130	
Dibromofluoromethane	95	70-130	

Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-08 Date Collected: 07/14/23 14:25

Client ID: PEB-B_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/21/23 02:20

Analyst: JIC Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 I	Low - Westborough Lab						
Methyl tert butyl ether	0.00039	J	mg/kg	0.0019	0.00019	1	
Benzene	0.00032	J	mg/kg	0.00048	0.00016	1	
1,2-Dichloroethane	ND		mg/kg	0.00096	0.00025	1	
Toluene	0.00062	J	mg/kg	0.00096	0.00052	1	
1,2-Dibromoethane	ND		mg/kg	0.00048	0.00028	1	
Ethylbenzene	0.023		mg/kg	0.00096	0.00014	1	
p/m-Xylene	0.010		mg/kg	0.0019	0.00054	1	
o-Xylene	0.0036		mg/kg	0.00096	0.00028	1	
Xylenes, Total	0.014		mg/kg	0.00096	0.00028	1	
Isopropylbenzene	0.037		mg/kg	0.00096	0.00010	1	
1,3,5-Trimethylbenzene	0.017		mg/kg	0.0019	0.00018	1	
1,2,4-Trimethylbenzene	0.033		mg/kg	0.0019	0.00032	1	
Naphthalene	0.046		mg/kg	0.0038	0.00062	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	116		70-130	
Toluene-d8	126		70-130	
4-Bromofluorobenzene	323	Q	70-130	
Dibromofluoromethane	99		70-130	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-09 Date Collected: 07/14/23 14:30

Client ID: PEB-F_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 14:36

Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by EPA 5035 Hig	Volatile Organics by EPA 5035 High - Westborough Lab									
Methyl tert butyl ether	ND		mg/kg	0.11	0.011	1				
Benzene	0.017	J	mg/kg	0.028	0.0094	1				
1,2-Dichloroethane	ND		mg/kg	0.056	0.014	1				
Toluene	ND		mg/kg	0.056	0.031	1				
1,2-Dibromoethane	ND		mg/kg	0.028	0.016	1				
Ethylbenzene	2.7		mg/kg	0.056	0.0080	1				
p/m-Xylene	0.23		mg/kg	0.11	0.032	1				
o-Xylene	0.042	J	mg/kg	0.056	0.016	1				
Xylenes, Total	0.27	J	mg/kg	0.056	0.016	1				
Isopropylbenzene	2.3		mg/kg	0.056	0.0062	1				
1,3,5-Trimethylbenzene	0.23		mg/kg	0.11	0.011	1				
1,2,4-Trimethylbenzene	1.1		mg/kg	0.11	0.019	1				
Naphthalene	0.48		mg/kg	0.23	0.037	1				

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	89	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	122	70-130	
Dibromofluoromethane	90	70-130	

Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-09 Date Collected: 07/14/23 14:30

Client ID: PEB-F_4.5-5.0_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/08/23 10:07

Analyst: AJK Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by EPA 5035 Low - Westborough Lab									
Methyl tert butyl ether	0.00022	J	mg/kg	0.0017	0.00017	1			
Benzene	0.00038	J	mg/kg	0.00042	0.00014	1			
1,2-Dichloroethane	ND		mg/kg	0.00084	0.00022	1			
Toluene	ND		mg/kg	0.00084	0.00046	1			
1,2-Dibromoethane	ND		mg/kg	0.00042	0.00025	1			
Ethylbenzene	0.071		mg/kg	0.00084	0.00012	1			
p/m-Xylene	0.0037		mg/kg	0.0017	0.00047	1			
o-Xylene	0.0022		mg/kg	0.00084	0.00024	1			
Xylenes, Total	0.0059		mg/kg	0.00084	0.00024	1			
Isopropylbenzene	0.061		mg/kg	0.00084	0.00009	1			
1,3,5-Trimethylbenzene	0.0053		mg/kg	0.0017	0.00016	1			
1,2,4-Trimethylbenzene	0.022		mg/kg	0.0017	0.00028	1			
Naphthalene	0.034		mg/kg	0.0034	0.00055	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	109		70-130	
Toluene-d8	100		70-130	
4-Bromofluorobenzene	201	Q	70-130	
Dibromofluoromethane	108		70-130	



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-10 Date Collected: 07/14/23 14:45

Client ID: PEB-J_6.0-6.5_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 15:00

Analyst: JIC Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by EPA 5035 I	Volatile Organics by EPA 5035 High - Westborough Lab									
Methyl tert butyl ether	ND		mg/kg	0.18	0.018	1				
Benzene	0.19		mg/kg	0.044	0.015	1				
1,2-Dichloroethane	ND		mg/kg	0.088	0.023	1				
Toluene	0.068	J	mg/kg	0.088	0.048	1				
1,2-Dibromoethane	ND		mg/kg	0.044	0.026	1				
Ethylbenzene	0.12		mg/kg	0.088	0.012	1				
p/m-Xylene	0.12	J	mg/kg	0.18	0.050	1				
o-Xylene	0.030	J	mg/kg	0.088	0.026	1				
Xylenes, Total	0.15	J	mg/kg	0.088	0.026	1				
Isopropylbenzene	2.8		mg/kg	0.088	0.0096	1				
1,3,5-Trimethylbenzene	0.017	J	mg/kg	0.18	0.017	1				
1,2,4-Trimethylbenzene	0.075	J	mg/kg	0.18	0.030	1				
Naphthalene	0.30	J	mg/kg	0.35	0.058	1				

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	115	70-130	
Dibromofluoromethane	99	70-130	

Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-10 Date Collected: 07/14/23 14:45

Client ID: PEB-J_6.0-6.5_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/20/23 11:10

Analyst: JIC Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
/olatile Organics by EPA 5035 Low - Westborough Lab									
Methyl tert butyl ether	0.00045	J	mg/kg	0.0026	0.00026	1			
Benzene	0.00051	J	mg/kg	0.00064	0.00021	1			
1,2-Dichloroethane	ND		mg/kg	0.0013	0.00033	1			
Toluene	ND		mg/kg	0.0013	0.00070	1			
1,2-Dibromoethane	ND		mg/kg	0.00064	0.00038	1			
Ethylbenzene	0.0019		mg/kg	0.0013	0.00018	1			
p/m-Xylene	0.0012	J	mg/kg	0.0026	0.00072	1			
o-Xylene	0.00099	J	mg/kg	0.0013	0.00037	1			
Xylenes, Total	0.0022	J	mg/kg	0.0013	0.00037	1			
Isopropylbenzene	0.073		mg/kg	0.0013	0.00014	1			
1,3,5-Trimethylbenzene	0.00091	J	mg/kg	0.0026	0.00025	1			
1,2,4-Trimethylbenzene	0.0018	J	mg/kg	0.0026	0.00043	1			
Naphthalene	0.0051		mg/kg	0.0051	0.00083	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	95		70-130	
Toluene-d8	121		70-130	
4-Bromofluorobenzene	276	Q	70-130	
Dibromofluoromethane	88		70-130	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-11 Date Collected: 07/14/23 14:50

Client ID: PES-K_3.1-3.6_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 15:23

Analyst: JIC Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by EPA 5035 High - Westborough Lab									
Methyl tert butyl ether	ND		mg/kg	0.13	0.013	1			
Benzene	ND		mg/kg	0.032	0.010	1			
1,2-Dichloroethane	ND		mg/kg	0.063	0.016	1			
Toluene	0.038	J	mg/kg	0.063	0.034	1			
1,2-Dibromoethane	ND		mg/kg	0.032	0.018	1			
Ethylbenzene	0.053	J	mg/kg	0.063	0.0089	1			
p/m-Xylene	0.17		mg/kg	0.13	0.035	1			
o-Xylene	0.057	J	mg/kg	0.063	0.018	1			
Xylenes, Total	0.23	J	mg/kg	0.063	0.018	1			
Isopropylbenzene	4.5		mg/kg	0.063	0.0069	1			
1,3,5-Trimethylbenzene	0.046	J	mg/kg	0.13	0.012	1			
1,2,4-Trimethylbenzene	0.10	J	mg/kg	0.13	0.021	1			
Naphthalene	0.38		mg/kg	0.25	0.041	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	86		70-130	
Toluene-d8	94		70-130	
4-Bromofluorobenzene	166	Q	70-130	
Dibromofluoromethane	89		70-130	



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-12 Date Collected: 07/14/23 14:55

Client ID: PES-L_3.1-3.6_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 15:46

Analyst: JIC Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by EPA 5035 High - Westborough Lab									
Methyl tert butyl ether	ND		mg/kg	0.10	0.010	1			
Benzene	ND		mg/kg	0.025	0.0083	1			
1,2-Dichloroethane	ND		mg/kg	0.050	0.013	1			
Toluene	ND		mg/kg	0.050	0.027	1			
1,2-Dibromoethane	ND		mg/kg	0.025	0.014	1			
Ethylbenzene	0.031	J	mg/kg	0.050	0.0070	1			
p/m-Xylene	0.036	J	mg/kg	0.10	0.028	1			
o-Xylene	0.022	J	mg/kg	0.050	0.014	1			
Xylenes, Total	0.058	J	mg/kg	0.050	0.014	1			
Isopropylbenzene	2.6		mg/kg	0.050	0.0054	1			
1,3,5-Trimethylbenzene	0.017	J	mg/kg	0.10	0.0096	1			
1,2,4-Trimethylbenzene	0.058	J	mg/kg	0.10	0.017	1			
Naphthalene	0.23		mg/kg	0.20	0.032	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	89		70-130	
Toluene-d8	95		70-130	
4-Bromofluorobenzene	185	Q	70-130	
Dibromofluoromethane	88		70-130	



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-12 Date Collected: 07/14/23 14:55

Client ID: PES-L_3.1-3.6_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/07/23 16:36

Analyst: JIC Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035	Low - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.0018	0.00018	1	
Benzene	0.00035	J	mg/kg	0.00044	0.00015	1	
1,2-Dichloroethane	ND		mg/kg	0.00089	0.00023	1	
Toluene	0.00056	J	mg/kg	0.00089	0.00048	1	
1,2-Dibromoethane	ND		mg/kg	0.00044	0.00026	1	
Ethylbenzene	ND		mg/kg	0.00089	0.00012	1	
p/m-Xylene	ND		mg/kg	0.0018	0.00050	1	
o-Xylene	0.00090		mg/kg	0.00089	0.00026	1	
Xylenes, Total	0.00090		mg/kg	0.00089	0.00026	1	
Isopropylbenzene	0.081		mg/kg	0.00089	0.00009	1	
1,3,5-Trimethylbenzene	0.00088	J	mg/kg	0.0018	0.00017	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0018	0.00030	1	
Naphthalene	0.00060	J	mg/kg	0.0036	0.00058	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	104		70-130	
Toluene-d8	98		70-130	
4-Bromofluorobenzene	787	Q	70-130	
Dibromofluoromethane	104		70-130	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-13 Date Collected: 07/14/23 14:55

Client ID: PES-A_4.2-4.7_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 16:10

Analyst: JIC Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
/olatile Organics by EPA 5035 High - Westborough Lab								
Methyl tert butyl ether	ND		mg/kg	0.13	0.013	1		
Benzene	0.073		mg/kg	0.032	0.011	1		
1,2-Dichloroethane	ND		mg/kg	0.064	0.016	1		
Toluene	0.036	J	mg/kg	0.064	0.035	1		
1,2-Dibromoethane	ND		mg/kg	0.032	0.019	1		
Ethylbenzene	7.6		mg/kg	0.064	0.0090	1		
p/m-Xylene	2.7		mg/kg	0.13	0.036	1		
o-Xylene	0.072		mg/kg	0.064	0.019	1		
Xylenes, Total	2.8		mg/kg	0.064	0.019	1		
Isopropylbenzene	4.4		mg/kg	0.064	0.0070	1		
1,3,5-Trimethylbenzene	1.0		mg/kg	0.13	0.012	1		
1,2,4-Trimethylbenzene	12.		mg/kg	0.13	0.021	1		
Naphthalene	4.2		mg/kg	0.26	0.042	1		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	86		70-130	
Toluene-d8	96		70-130	
4-Bromofluorobenzene	143	Q	70-130	
Dibromofluoromethane	89		70-130	

Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-14 Date Collected: 07/14/23 15:00

Client ID: PES-E_5.2-5.7_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 16:33

Analyst: JIC Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
olatile Organics by EPA 5035 High - Westborough Lab									
Methyl tert butyl ether	0.11		mg/kg	0.11	0.011	1			
Benzene	0.038		mg/kg	0.028	0.0094	1			
1,2-Dichloroethane	ND		mg/kg	0.057	0.015	1			
Toluene	ND		mg/kg	0.057	0.031	1			
1,2-Dibromoethane	ND		mg/kg	0.028	0.017	1			
Ethylbenzene	0.089		mg/kg	0.057	0.0080	1			
p/m-Xylene	ND		mg/kg	0.11	0.032	1			
o-Xylene	ND		mg/kg	0.057	0.016	1			
Xylenes, Total	ND		mg/kg	0.057	0.016	1			
Isopropylbenzene	1.5		mg/kg	0.057	0.0062	1			
1,3,5-Trimethylbenzene	ND		mg/kg	0.11	0.011	1			
1,2,4-Trimethylbenzene	0.052	J	mg/kg	0.11	0.019	1			
Naphthalene	0.13	J	mg/kg	0.23	0.037	1			

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	86	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	118	70-130	
Dibromofluoromethane	86	70-130	

Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-14 Date Collected: 07/14/23 15:00

Client ID: PES-E_5.2-5.7_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/20/23 11:36

Analyst: JIC Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 I	Low - Westborough Lab						
Methyl tert butyl ether	0.094		mg/kg	0.0021	0.00021	1	
Benzene	0.020		mg/kg	0.00052	0.00017	1	
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00027	1	
Toluene	0.0024		mg/kg	0.0010	0.00057	1	
1,2-Dibromoethane	ND		mg/kg	0.00052	0.00031	1	
Ethylbenzene	0.020		mg/kg	0.0010	0.00015	1	
p/m-Xylene	0.0025		mg/kg	0.0021	0.00058	1	
o-Xylene	0.0046		mg/kg	0.0010	0.00030	1	
Xylenes, Total	0.0071		mg/kg	0.0010	0.00030	1	
Isopropylbenzene	0.39	E	mg/kg	0.0010	0.00011	1	
1,3,5-Trimethylbenzene	0.00031	J	mg/kg	0.0021	0.00020	1	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00035	1	
Naphthalene	0.0021	J	mg/kg	0.0042	0.00068	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	96		70-130	
Toluene-d8	529	Q	70-130	
4-Bromofluorobenzene	384	Q	70-130	
Dibromofluoromethane	78		70-130	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-15 Date Collected: 07/14/23 00:00

Client ID: DUP-1 Date Received: 07/14/23
Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/19/23 16:57

Analyst: JIC Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035	High - Westborough Lab						
Methyl tert butyl ether	ND		mg/kg	0.11	0.011	1	
Benzene	0.30		mg/kg	0.027	0.0090	1	
1,2-Dichloroethane	ND		mg/kg	0.054	0.014	1	
Toluene	0.11		mg/kg	0.054	0.030	1	
1,2-Dibromoethane	ND		mg/kg	0.027	0.016	1	
Ethylbenzene	2.2		mg/kg	0.054	0.0077	1	
p/m-Xylene	1.9		mg/kg	0.11	0.030	1	
o-Xylene	0.33		mg/kg	0.054	0.016	1	
Xylenes, Total	2.2		mg/kg	0.054	0.016	1	
Isopropylbenzene	3.9		mg/kg	0.054	0.0059	1	
1,3,5-Trimethylbenzene	0.88		mg/kg	0.11	0.010	1	
1,2,4-Trimethylbenzene	2.6		mg/kg	0.11	0.018	1	
Naphthalene	1.4		mg/kg	0.22	0.035	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	83		70-130	
Toluene-d8	100		70-130	
4-Bromofluorobenzene	151	Q	70-130	
Dibromofluoromethane	81		70-130	



Extraction Method: EPA 8011

07/17/23 13:40

Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8011

Analytical Date: 07/17/23 16:31 Extraction Date:

Analyst: JKH/G

 Parameter
 Result
 Qualifier
 Units
 RL
 MDL

 Microextractables by GC - Westborough Lab for sample(s):
 01
 Batch:
 WG1804145-1

 1,2-Dibromoethane
 ND
 ug/l
 0.010
 0.005
 A



Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 07/18/23 10:38

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by GC/MS - Wes	tborough Lab	for sampl	e(s): 01	Batch:	WG1804985-5	
Methyl tert butyl ether	ND		ug/l	1.0	0.17	
Benzene	ND		ug/l	0.50	0.16	
1,2-Dichloroethane	ND		ug/l	0.50	0.13	
Toluene	ND		ug/l	0.75	0.20	
Ethylbenzene	ND		ug/l	0.50	0.17	
p/m-Xylene	ND		ug/l	1.0	0.33	
o-Xylene	ND		ug/l	1.0	0.39	
Xylenes, Total	ND		ug/l	1.0	0.33	
Isopropylbenzene	ND		ug/l	0.50	0.19	
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	
Naphthalene	0.28	J	ug/l	1.0	0.22	

		Acceptance	
Surrogate	%Recovery Qualifi	er Criteria	
1,2-Dichloroethane-d4	120	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	98	70-130	
Dibromofluoromethane	101	70-130	



Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 07/19/23 09:01

Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MD	L
olatile Organics by EPA 5035	High - Westbord	ough Lab for	sample(s):	02-15	Batch:	WG1805480-5
Methyl tert butyl ether	ND		mg/kg	0.10	0.0	010
Benzene	ND		mg/kg	0.025	0.0	083
1,2-Dichloroethane	ND		mg/kg	0.050	0.0)13
Toluene	ND		mg/kg	0.050	0.0)27
1,2-Dibromoethane	ND		mg/kg	0.025	0.0)15
Ethylbenzene	ND		mg/kg	0.050	0.0	070
p/m-Xylene	ND		mg/kg	0.10	0.0)28
o-Xylene	ND		mg/kg	0.050	0.0)14
Xylenes, Total	ND		mg/kg	0.050	0.0)14
Isopropylbenzene	ND		mg/kg	0.050	0.0	054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0	096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.0)17
Naphthalene	ND		mg/kg	0.20	0.0)32

		Acceptance			
Surrogate	%Recovery Q	ualifier Criteria			
1,2-Dichloroethane-d4	124	70-130			
Toluene-d8	92	70-130			
4-Bromofluorobenzene	95	70-130			
Dibromofluoromethane	120	70-130			



Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 07/20/23 10:44

Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low	- Westboro	ugh Lab for	sample(s):	10,14	Batch: WG1805621-5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00020
Benzene	ND		mg/kg	0.00050	0.00017
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00026
Toluene	ND		mg/kg	0.0010	0.00054
1,2-Dibromoethane	ND		mg/kg	0.00050	0.00029
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033
Naphthalene	ND		mg/kg	0.0040	0.00065

		Acceptance			
Surrogate	%Recovery	Qualifier Criteria			
1,2-Dichloroethane-d4	103	70-130			
Toluene-d8	97	70-130			
4-Bromofluorobenzene	103	70-130			
Dibromofluoromethane	94	70-130			



Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 07/20/23 19:45

Analyst: LAC

Parameter	Result	Qualifier	Units	RL		MDL
olatile Organics by EPA 5035 Lo	w - Westboro	ugh Lab fo	r sample(s):	08	Batch:	WG1805927-5
Methyl tert butyl ether	ND		mg/kg	0.002	0	0.00020
Benzene	ND		mg/kg	0.0005	50	0.00017
1,2-Dichloroethane	ND		mg/kg	0.001	0	0.00026
Toluene	ND		mg/kg	0.001	0	0.00054
1,2-Dibromoethane	ND		mg/kg	0.0005	50	0.00029
Ethylbenzene	ND		mg/kg	0.001	0	0.00014
p/m-Xylene	ND		mg/kg	0.002	0	0.00056
o-Xylene	ND		mg/kg	0.001	0	0.00029
Xylenes, Total	ND		mg/kg	0.001	0	0.00029
Isopropylbenzene	ND		mg/kg	0.001	0	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.002	0	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.002	0	0.00033
Naphthalene	ND		mg/kg	0.004	0	0.00065

Surrogate		Ac	ceptance	
Surrogate	%Recovery (Qualifier	Criteria	
1,2-Dichloroethane-d4	109	•	70-130	
Toluene-d8	98	•	70-130	
4-Bromofluorobenzene	101		70-130	
Dibromofluoromethane	101		70-130	



Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/08/23 09:40

Analyst: AJK

Parameter	Result	Qualifier	Units	RL		MDL	
olatile Organics by EPA 5035 Lo	ow - Westboro	ugh Lab fo	r sample(s):	09	Batch:	WG1813743-5	
Methyl tert butyl ether	ND		mg/kg	0.0020)	0.00020	
Benzene	ND		mg/kg	0.0005	0	0.00017	
1,2-Dichloroethane	ND		mg/kg	0.0010)	0.00026	
Toluene	ND		mg/kg	0.0010)	0.00054	
1,2-Dibromoethane	ND		mg/kg	0.0005	0	0.00029	
Ethylbenzene	ND		mg/kg	0.0010)	0.00014	
p/m-Xylene	ND		mg/kg	0.0020)	0.00056	
o-Xylene	ND		mg/kg	0.0010)	0.00029	
Xylenes, Total	ND		mg/kg	0.0010)	0.00029	
Isopropylbenzene	ND		mg/kg	0.0010)	0.00011	
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020)	0.00019	
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020)	0.00033	
Naphthalene	ND		mg/kg	0.0040)	0.00065	

Surrogate		Acceptance	
Surrogate	%Recovery 0	Qualifier Criteria	
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	90	70-130	
4-Bromofluorobenzene	90	70-130	
Dibromofluoromethane	106	70-130	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 08/07/23 09:14

Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	
olatile Organics by EPA 5035 Low	r - Westbord	ough Lab fo	r sample(s):	04-06,12	Batch:	WG1813902-5
Methyl tert butyl ether	ND		mg/kg	0.0020	0.0002	0
Benzene	ND		mg/kg	0.00050	0.0001	7
1,2-Dichloroethane	ND		mg/kg	0.0010	0.0002	6
Toluene	ND		mg/kg	0.0010	0.0005	4
1,2-Dibromoethane	ND		mg/kg	0.00050	0.0002	9
Ethylbenzene	ND		mg/kg	0.0010	0.0001	4
p/m-Xylene	ND		mg/kg	0.0020	0.0005	6
o-Xylene	ND		mg/kg	0.0010	0.0002	9
Xylenes, Total	ND		mg/kg	0.0010	0.0002	9
Isopropylbenzene	ND		mg/kg	0.0010	0.0001	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.0001	9
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.0003	3
Naphthalene	ND		mg/kg	0.0040	0.0006	5

		Acceptance	
%Recovery	Qualifier	Criteria	
99		70-130	
102		70-130	
105		70-130	
95		70-130	
	99 102 105	%Recovery Qualifier 99 102 105	99 70-130 102 70-130 105 70-130



Lab Control Sample Analysis Batch Quality Control

Project Name: PESRM Lab Number:

L2340632

Project Number: 220181801

Report Date: 04/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sam	nple(s): 01	Batch: WG1804	1145-2					
1,2-Dibromoethane	80		-		80-120	-		20	А



Lab Control Sample Analysis Batch Quality Control

Project Name: PESRM

Project Number:

220181801

Lab Number:

L2340632

Report Date:

04/03/24

Parameter	LCS %Recovery	Qual	LCSD %Recove		%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough La	ab Associated	sample(s): 0	1 Batch:	WG1804985-3	WG1804985-4			
Methyl tert butyl ether	100		110		63-130	10		20
Benzene	100		100		70-130	0		20
1,2-Dichloroethane	110		110		70-130	0		20
Toluene	99		99		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	100		105		70-130	5		20
Isopropylbenzene	99		97		70-130	2		20
1,3,5-Trimethylbenzene	100		99		64-130	1		20
1,2,4-Trimethylbenzene	100		99		70-130	1		20
Naphthalene	110		120		70-130	9		20

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118	121	70-130
Toluene-d8	101	102	70-130
4-Bromofluorobenzene	97	97	70-130
Dibromofluoromethane	98	99	70-130



Project Name: PESRM

Lab Number: L2340632

Project Number: 220181801

Report Date: 04/03/24

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
olatile Organics by EPA 5035 High - Westbo	orough Lab Asso	ociated sample	e(s): 02-15 B	atch: WG1	1805480-3 WG18	05480-4		
Methyl tert butyl ether	109		106		66-130	3		30
Benzene	108		111		70-130	3		30
1,2-Dichloroethane	106		105		70-130	1		30
Toluene	94		95		70-130	1		30
1,2-Dibromoethane	85		81		70-130	5		30
Ethylbenzene	100		101		70-130	1		30
p/m-Xylene	109		110		70-130	1		30
o-Xylene	106		107		70-130	1		30
Isopropylbenzene	83		89		70-130	7		30
1,3,5-Trimethylbenzene	97		102		70-130	5		30
1,2,4-Trimethylbenzene	94		99		70-130	5		30
Naphthalene	80		81		70-130	1		30

Surrogate	LCS %Recovery Qua	LCSD I %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102	101	70-130
Toluene-d8	94	94	70-130
4-Bromofluorobenzene	86	87	70-130
Dibromofluoromethane	99	98	70-130



Project Name: PESRM
Project Number: 220181801

Lab Number: L2

L2340632

Report Date:

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
olatile Organics by EPA 5035 Low - Westb	orough Lab Asso	ociated sample	(s): 10,14 Ba	atch: WG18	805621-3 WG180)5621-4		
Methyl tert butyl ether	110		107		66-130	3		30
Benzene	99		96		70-130	3		30
1,2-Dichloroethane	108		108		70-130	0		30
Toluene	101		98		70-130	3		30
1,2-Dibromoethane	95		93		70-130	2		30
Ethylbenzene	103		100		70-130	3		30
p/m-Xylene	101		98		70-130	3		30
o-Xylene	100		97		70-130	3		30
Isopropylbenzene	101		98		70-130	3		30
1,3,5-Trimethylbenzene	98		95		70-130	3		30
1,2,4-Trimethylbenzene	98		96		70-130	2		30
Naphthalene	95		94		70-130	1		30

	LCS	LCSD	Acceptance
Surrogate	%Recovery Qual	%Recovery Qual	Criteria
1,2-Dichloroethane-d4	94	95	70-130
Toluene-d8	99	99	70-130
4-Bromofluorobenzene	105	105	70-130
Dibromofluoromethane	90	90	70-130



PESRM Project Name:

Lab Number: L2340632

Project Number:		220181801				Report Date:	04/03/24
			LCS	LCSD	%Recovery		RPD

arameter	%Recovery	Qual	%Recovery	Qual Limits	RPD	Qual Limits	
olatile Organics by EPA 5035 Low - Westbo	rough Lab Asso	ciated sample	(s): 08 Batch	: WG1805927-3 WG180592	27-4		
Methyl tert butyl ether	104		106	66-130	2	30	
Benzene	97		98	70-130	1	30	
1,2-Dichloroethane	98		100	70-130	2	30	
Toluene	91		92	70-130	1	30	
1,2-Dibromoethane	90		91	70-130	1	30	
Ethylbenzene	95		97	70-130	2	30	
p/m-Xylene	93		94	70-130	1	30	
o-Xylene	93		93	70-130	0	30	
Isopropylbenzene	93		94	70-130	1	30	
1,3,5-Trimethylbenzene	96		95	70-130	1	30	
1,2,4-Trimethylbenzene	94		93	70-130	1	30	
Naphthalene	83		83	70-130	0	30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100	103	70-130
Toluene-d8	100	99	70-130
4-Bromofluorobenzene	105	101	70-130
Dibromofluoromethane	96	96	70-130

Project Name: PESRM Project Number:

220181801

Lab Number:

L2340632

Report Date:

arameter	LCS %Recovery		LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
olatile Organics by EPA 5035 Low -	Westborough Lab Asso	ciated sample(s):	09 Batch	: WG181374	3-3 WG18137	43-4		
Methyl tert butyl ether	101		95		66-130	6		30
Benzene	104		99		70-130	5		30
1,2-Dichloroethane	89		86		70-130	3		30
Toluene	96		93		70-130	3		30
1,2-Dibromoethane	86		86		70-130	0		30
Ethylbenzene	98		94		70-130	4		30
p/m-Xylene	100		97		70-130	3		30
o-Xylene	98		94		70-130	4		30
Isopropylbenzene	96		94		70-130	2		30
1,3,5-Trimethylbenzene	96		94		70-130	2		30
1,2,4-Trimethylbenzene	96		94		70-130	2		30
Naphthalene	86		88		70-130	2		30

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97	99	70-130
Toluene-d8	97	97	70-130
4-Bromofluorobenzene	89	86	70-130
Dibromofluoromethane	105	104	70-130



Project Name: PESRM

L2340632

Project Number: 220181801 Report Date:

Lab Number:

nrameter	LCS %Recovery	Qual %	LCSD 6Recovery	Qual	%Recovery Limits	/ RPD	Qual	RPD Limits	
platile Organics by EPA 5035 Low - Westbo	rough Lab Ass	ociated sample(s)): 04-06,12	Batch:	WG1813902-3	WG1813902-4			
Methyl tert butyl ether	95		94		66-130	1		30	
Benzene	95		94		70-130	1		30	
1,2-Dichloroethane	94		93		70-130	1		30	
Toluene	89		86		70-130	3		30	
1,2-Dibromoethane	95		92		70-130	3		30	
Ethylbenzene	94		91		70-130	3		30	
p/m-Xylene	96		93		70-130	3		30	
o-Xylene	95		92		70-130	3		30	
Isopropylbenzene	97		95		70-130	2		30	
1,3,5-Trimethylbenzene	98		95		70-130	3		30	
1,2,4-Trimethylbenzene	97		95		70-130	2		30	
Naphthalene	93		90		70-130	3		30	

	LCS	LCSD	Acceptance
Surrogate	%Recovery Qua	nl %Recovery Qual	Criteria
1,2-Dichloroethane-d4	101	100	70-130
Toluene-d8	101	101	70-130
4-Bromofluorobenzene	103	103	70-130
Dibromofluoromethane	99	98	70-130

SEMIVOLATILES



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-01 Date Collected: 07/14/23 13:35

Client ID: FIELD BLANK Date Received: 07/14/23
Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water Extraction Method: EPA 3510C

Analytical Method: 1 8270F Extraction Date: 07/20/23 23:00

Analytical Method: 1,8270E Extraction Date: 07/20/23 23:00
Analytical Date: 07/21/23 12:40

Analyst: JG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Semivolatile Organics by GC/MS	S - Westborough Lab						
Fluorene	ND		ug/l	2.0	0.41	1	
Phenanthrene	ND		ug/l	2.0	0.33	1	
Anthracene	ND		ug/l	2.0	0.33	1	
Pyrene	ND		ug/l	2.0	0.28	1	
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1	
Chrysene	ND		ug/l	1.4	0.34	1	
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1	
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1	
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	65		23-120	
2-Fluorobiphenyl	62		15-120	
4-Terphenyl-d14	62		41-149	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-02 Date Collected: 07/14/23 13:30

Client ID: PES-M_1.0-1.5_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

07/18/23 05:54

Sample Depth:

Analytical Date:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analyst: MG Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westk	oorough Lab					
Fluores	0.00			0.00	0.040	
Fluorene	0.88		mg/kg	0.20	0.019	1
Phenanthrene	1.8		mg/kg	0.12	0.024	1
Anthracene	0.099	J	mg/kg	0.12	0.038	1
Pyrene	0.14		mg/kg	0.12	0.020	1
Benzo(a)anthracene	0.055	J	mg/kg	0.12	0.022	1
Chrysene	0.15		mg/kg	0.12	0.020	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.033	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	98		23-120	
2-Fluorobiphenyl	74		30-120	
4-Terphenyl-d14	79		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-03 Date Collected: 07/14/23 13:35

Client ID: PES-G_1.7-2.2_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Percent Solids:

MG 84%

Analyst:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analytical Date: 07/18/23 06:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Semivolatile Organics by GC/MS - Westborough Lab									
Fluorene	1.1		mg/kg	0.20	0.019	1			
Phenanthrene	2.5		mg/kg	0.12	0.024	1			
Anthracene	0.15		mg/kg	0.12	0.038	1			
Pyrene	0.14		mg/kg	0.12	0.020	1			
Benzo(a)anthracene	ND		mg/kg	0.12	0.022	1			
Chrysene	ND		mg/kg	0.12	0.020	1			
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.033	1			
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1			
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	155	Q	23-120
2-Fluorobiphenyl	84		30-120
4-Terphenyl-d14	87		18-120



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-04 Date Collected: 07/14/23 14:00

Client ID: PEB-D_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analytical Date: 07/20/23 01:05

Analyst: IM
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Semivolatile Organics by GC/MS - Westborough Lab									
Florence	4.5			0.40	0.040				
Fluorene	1.5		mg/kg	0.19	0.019	1			
Phenanthrene	2.8		mg/kg	0.12	0.023	1			
Anthracene	0.37		mg/kg	0.12	0.038	1			
Pyrene	0.63		mg/kg	0.12	0.019	1			
Benzo(a)anthracene	0.29		mg/kg	0.12	0.022	1			
Chrysene	0.43		mg/kg	0.12	0.020	1			
Benzo(b)fluoranthene	0.16		mg/kg	0.12	0.032	1			
Benzo(a)pyrene	0.14	J	mg/kg	0.15	0.047	1			
Benzo(ghi)perylene	0.079	J	mg/kg	0.15	0.023	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	101		23-120	
2-Fluorobiphenyl	77		30-120	
4-Terphenyl-d14	72		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-05 Date Collected: 07/14/23 14:05

Client ID: PEB-H_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1.8270E Extraction Date: 07/15/23 18:08

Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analytical Date: 07/18/23 06:44

Analyst: MG Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - West	tborough Lab					
_						,
Fluorene	0.26		mg/kg	0.22	0.021	1
Phenanthrene	0.49		mg/kg	0.13	0.027	1
Anthracene	ND		mg/kg	0.13	0.043	1
Pyrene	0.041	J	mg/kg	0.13	0.022	1
Benzo(a)anthracene	ND		mg/kg	0.13	0.025	1
Chrysene	0.045	J	mg/kg	0.13	0.023	1
Benzo(b)fluoranthene	ND		mg/kg	0.13	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.18	0.054	1
Benzo(ghi)perylene	ND		mg/kg	0.18	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	75		23-120	
2-Fluorobiphenyl	70		30-120	
4-Terphenyl-d14	81		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-06 Date Collected: 07/14/23 14:15

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Percent Solids:

MG 85%

Analyst:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analytical Date: 07/18/23 07:01

 Parameter
 Result
 Qualifier
 Units
 RL
 MDL
 Dilution Factor

 Semivolatile Organics by GC/MS - Westborough Lab

 Fluorene
 0.11
 J
 mg/kg
 0.20
 0.019
 1

Semivolatile Organics by GC/MS - Westborough Lab								
Fluorene	0.11	J	mg/kg	0.20	0.019	1		
Phenanthrene	0.26		mg/kg	0.12	0.024	1		
Anthracene	ND		mg/kg	0.12	0.038	1		
Pyrene	0.044	J	mg/kg	0.12	0.020	1		
Benzo(a)anthracene	ND		mg/kg	0.12	0.022	1		
Chrysene	0.045	J	mg/kg	0.12	0.020	1		
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.033	1		
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1		
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	95		23-120	
2-Fluorobiphenyl	86		30-120	
4-Terphenyl-d14	95		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-07 D Date Collected: 07/14/23 14:20

Client ID: PEB-C_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1.8270E Extraction Date: 07/15/23 18:08

Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analytical Date: 07/20/23 17:35

Analyst: LJG Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westbord	ough Lab					
Fluores	4.7		4	0.00	0.004	-
Fluorene	4.7		mg/kg	0.93	0.091	5
Phenanthrene	9.8		mg/kg	0.56	0.11	5
Anthracene	1.1		mg/kg	0.56	0.18	5
Pyrene	1.2		mg/kg	0.56	0.093	5
Benzo(a)anthracene	0.29	J	mg/kg	0.56	0.10	5
Chrysene	0.50	J	mg/kg	0.56	0.097	5
Benzo(b)fluoranthene	0.20	J	mg/kg	0.56	0.16	5
Benzo(a)pyrene	ND		mg/kg	0.75	0.23	5
Benzo(ghi)perylene	0.14	J	mg/kg	0.75	0.11	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	77		23-120	
2-Fluorobiphenyl	70		30-120	
4-Terphenyl-d14	71		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-08 D Date Collected: 07/14/23 14:25

Client ID: PEB-B_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546

Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08
Analytical Date: 07/20/23 17:58

Analyst: LJG Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Semivolatile Organics by GC/MS - Westborough Lab									
Fluorene	2.8		mg/kg	0.96	0.093	5			
Phenanthrene	6.1		mg/kg	0.57	0.12	5			
Anthracene	0.67		mg/kg	0.57	0.19	5			
Pyrene	0.78		mg/kg	0.57	0.095	5			
Benzo(a)anthracene	0.22	J	mg/kg	0.57	0.11	5			
Chrysene	0.42	J	mg/kg	0.57	0.10	5			
Benzo(b)fluoranthene	ND		mg/kg	0.57	0.16	5			
Benzo(a)pyrene	ND		mg/kg	0.76	0.23	5			
Benzo(ghi)perylene	ND		mg/kg	0.76	0.11	5			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	87		23-120	
2-Fluorobiphenyl	81		30-120	
4-Terphenyl-d14	79		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: Date Collected: 07/14/23 14:30 L2340632-09

Client ID: Date Received: 07/14/23 PEB-F 4.5-5.0 071423 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Percent Solids:

Benzo(ghi)perylene

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 07/15/23 18:08 1,8270E Analytical Method:

Analytical Date: 07/18/23 07:52 Analyst: MG

81%

Qualifier Units RL MDL Result **Dilution Factor Parameter** Semivolatile Organics by GC/MS - Westborough Lab Fluorene 0.32 mg/kg 0.20 0.020 1 Phenanthrene 0.84 mg/kg 0.12 0.025 J 1 Anthracene 0.098 mg/kg 0.12 0.040 0.33 0.020 1 Pyrene mg/kg 0.12 0.13 Benzo(a)anthracene mg/kg 0.12 0.023 1 0.16 0.021 Chrysene mg/kg 0.12 1 0.071 J Benzo(b)fluoranthene 0.12 0.034 1 mg/kg J Benzo(a)pyrene 0.055 mg/kg 0.16 0.050 1 ND 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	91		23-120	
2-Fluorobiphenyl	90		30-120	
4-Terphenyl-d14	96		18-120	

0.16

mg/kg

0.024



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-10 Date Collected: 07/14/23 14:45

Client ID: PEB-J_6.0-6.5_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analytical Date: 07/18/23 08:09

Analyst: MG
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Semivolatile Organics by GC/MS - Westborough Lab									
_						,			
Fluorene	0.60		mg/kg	0.20	0.019	11			
Phenanthrene	1.7		mg/kg	0.12	0.024	1			
Anthracene	0.096	J	mg/kg	0.12	0.038	1			
Pyrene	0.13		mg/kg	0.12	0.019	1			
Benzo(a)anthracene	0.056	J	mg/kg	0.12	0.022	1			
Chrysene	0.15		mg/kg	0.12	0.020	1			
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.033	1			
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1			
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	85		23-120	
2-Fluorobiphenyl	77		30-120	
4-Terphenyl-d14	79		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-11 Date Collected: 07/14/23 14:50

Client ID: PES-K_3.1-3.6_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analytical Date: 07/18/23 08:26

Analyst: MG Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Semivolatile Organics by GC/MS - Westborough Lab									
Fluorene	0.10	J	mg/kg	0.20	0.019	1			
Phenanthrene	0.27		mg/kg	0.12	0.024	1			
Anthracene	ND		mg/kg	0.12	0.039	1			
Pyrene	0.027	J	mg/kg	0.12	0.020	1			
Benzo(a)anthracene	ND		mg/kg	0.12	0.022	1			
Chrysene	0.040	J	mg/kg	0.12	0.021	1			
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1			
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1			
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	75		23-120	
2-Fluorobiphenyl	77		30-120	
4-Terphenyl-d14	87		18-120	



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-12 Date Collected: 07/14/23 14:55

Client ID: PES-L_3.1-3.6_071423 Date Received: 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Analytical Date:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analyst: IM
Percent Solids: 83%

07/18/23 22:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Semivolatile Organics by GC/MS - Westborough Lab									
Fluorene	0.27		mg/kg	0.20	0.019	1			
Phenanthrene	0.78		mg/kg	0.12	0.013	1			
Anthracene	0.077	J	mg/kg	0.12	0.039	1			
Pyrene	0.088	J	mg/kg	0.12	0.020	1			
Benzo(a)anthracene	0.024	J	mg/kg	0.12	0.022	1			
Chrysene	0.076	J	mg/kg	0.12	0.021	1			
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1			
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1			
Benzo(ghi)perylene	ND		mg/kg	0.16	0.023	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	77		23-120	
2-Fluorobiphenyl	69		30-120	
4-Terphenyl-d14	70		18-120	



Project Name: Lab Number: **PESRM** L2340632

Report Date: **Project Number:** 220181801 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-13 Date Collected: 07/14/23 14:55

Date Received: 07/14/23 Client ID: PES-A_4.2-4.7_071423

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Percent Solids:

78%

Extraction Method: EPA 3546 Matrix: Soil 07/15/23 18:08 **Extraction Date:** Analytical Method: 1,8270E

Analytical Date: 07/18/23 22:58 Analyst: IM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Semivolatile Organics by GC/MS - Westborough Lab									
Fluorene	0.11	J	mg/kg	0.21	0.020	1			
Phenanthrene	0.32		mg/kg	0.13	0.026	1			
Anthracene	ND		mg/kg	0.13	0.041	1			
Pyrene	0.026	J	mg/kg	0.13	0.021	1			
Benzo(a)anthracene	ND		mg/kg	0.13	0.024	1			
Chrysene	0.033	J	mg/kg	0.13	0.022	1			
Benzo(b)fluoranthene	ND		mg/kg	0.13	0.035	1			
Benzo(a)pyrene	ND		mg/kg	0.17	0.051	1			
Benzo(ghi)perylene	ND		mg/kg	0.17	0.025	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	83		23-120	
2-Fluorobiphenyl	79		30-120	
4-Terphenyl-d14	78		18-120	



Project Name:PESRMLab Number:L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-14 Date Collected: 07/14/23 15:00

Client ID: PES-E_5.2-5.7_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1.8270E Extraction Date: 07/15/23 18:08

Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08

Analytical Date: 07/18/23 23:15

Analyst: IM
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Semivolatile Organics by GC/MS - Westborough Lab									
_									
Fluorene	0.26		mg/kg	0.20	0.020	1			
Phenanthrene	0.69		mg/kg	0.12	0.025	1			
Anthracene	0.041	J	mg/kg	0.12	0.040	1			
Pyrene	0.051	J	mg/kg	0.12	0.020	1			
Benzo(a)anthracene	ND		mg/kg	0.12	0.023	1			
Chrysene	0.058	J	mg/kg	0.12	0.021	1			
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.034	1			
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1			
Benzo(ghi)perylene	ND		mg/kg	0.16	0.024	1			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	92		23-120	
2-Fluorobiphenyl	86		30-120	
4-Terphenyl-d14	84		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-15 Date Collected: 07/14/23 00:00

Client ID: DUP-1 Date Received: 07/14/23
Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546

Analytical Method: 1,8270E Extraction Date: 07/15/23 18:08
Analytical Date: 07/18/23 23:32

Analyst: IM
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Semivolatile Organics by GC/MS - Wes	stborough Lab						
Fluences	0.24			0.40	0.040	4	
Fluorene	0.24		mg/kg	0.19	0.018	1	
Phenanthrene	0.62		mg/kg	0.11	0.023	1	
Anthracene	0.048	J	mg/kg	0.11	0.037	1	
Pyrene	0.064	J	mg/kg	0.11	0.019	1	
Benzo(a)anthracene	0.026	J	mg/kg	0.11	0.021	1	
Chrysene	0.069	J	mg/kg	0.11	0.020	1	
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.032	1	
Benzo(a)pyrene	ND		mg/kg	0.15	0.046	1	
Benzo(ghi)perylene	ND		ma/ka	0.15	0.022	1	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Nitrobenzene-d5	79		23-120	
2-Fluorobiphenyl	73		30-120	
4-Terphenyl-d14	69		18-120	



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E Analytical Date: 07/18/23 00:00

Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 07/15/23 18:08

Parameter	Result	Qualifier	Units	RL		MDL
Semivolatile Organics by GC/MS -	Westborough	Lab for s	ample(s):	02-15	Batch:	WG1803733-1
Fluorene	ND		mg/kg	0.16		0.016
Phenanthrene	ND		mg/kg	0.098		0.020
Anthracene	ND		mg/kg	0.098		0.032
Pyrene	ND		mg/kg	0.098		0.016
Benzo(a)anthracene	ND		mg/kg	0.098		0.018
Chrysene	ND		mg/kg	0.098		0.017
Benzo(b)fluoranthene	ND		mg/kg	0.098		0.028
Benzo(a)pyrene	ND		mg/kg	0.13		0.040
Benzo(ghi)perylene	ND		mg/kg	0.13		0.019

	Acceptance				
Surrogate	%Recovery	Qualifier Criteria			
Nitrobenzene-d5	86	23-120			
2-Fluorobiphenyl	83	30-120			
4-Terphenyl-d14	88	18-120			



Project Name: PESRM Lab Number: L2340632

Project Number: 220181801 **Report Date:** 04/03/24

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E Analytical Date: 07/21/23 08:45

Analyst: JG

Extraction Method: EPA 3510C Extraction Date: 07/20/23 23:00

arameter	Result	Qualifier Units	RL	MDL	
Semivolatile Organics by GC/MS	- Westborough	Lab for sample(s):	01 Batch:	WG1805780-1	
Fluorene	ND	ug/l	2.0	0.41	
Phenanthrene	ND	ug/l	2.0	0.33	
Anthracene	ND	ug/l	2.0	0.33	
Pyrene	ND	ug/l	2.0	0.28	
Benzo(a)anthracene	ND	ug/l	2.0	0.32	
Chrysene	ND	ug/l	1.4	0.34	
Benzo(b)fluoranthene	ND	ug/l	2.0	0.35	
Benzo(a)pyrene	ND	ug/l	2.0	0.41	
Benzo(ghi)perylene	ND	ug/l	2.0	0.30	

Surrogate	%Recovery Qualif	Acceptance ier Criteria
2-Fluorophenol	64	21-120
Phenol-d6	53	10-120
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	69	15-120
2,4,6-Tribromophenol	65	10-120
4-Terphenyl-d14	74	41-149



Project Name: PESRM

220181801

Project Number:

L2340632

Report Date:

Lab Number:

arameter	LCS %Recovery	Qual %	LCSD %Recovery		covery mits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - We	estborough Lab Associa	ated sample(s):	02-15 Batch	n: WG1803733-2	WG180373	33-3		
Fluorene	76		75	40	-140	1		50
Phenanthrene	77		77	40	-140	0		50
Anthracene	82		82	40	-140	0		50
Pyrene	75		74	35	-142	1		50
Benzo(a)anthracene	82		81	40	-140	1		50
Chrysene	80		78	40	-140	3		50
Benzo(b)fluoranthene	74		76	40	-140	3		50
Benzo(a)pyrene	82		83	40	-140	1		50
Benzo(ghi)perylene	73		72	40	-140	1		50

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
Nitrobenzene-d5	91	87	23-120
2-Fluorobiphenyl	77	75	30-120
4-Terphenyl-d14	72	70	18-120

L2340632

04/03/24

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Lab Control Sample Analysis Batch Quality Control

Project Name: PESRM Project Number:

220181801

97

Report Date:

40-140

20

Lab Number:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westbor	ough Lab Associ	ated sample(s):	: 01 Batch:	WG1805780-2	2 WG1805780-3			
Fluorene	86		71		40-140	19		30
Phenanthrene	90		75		40-140	18		30
Anthracene	92		76		40-140	19		30
Pyrene	86		70		26-127	21		30
Benzo(a)anthracene	91		78		40-140	15		30
Chrysene	93		78		40-140	18		30
Benzo(b)fluoranthene	85		72		40-140	17		30
Benzo(a)pyrene	96		78		40-140	21		30

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Surrogate	LCS %Recovery Qual	LCSD I %Recovery Qual	Acceptance Criteria
2-Fluorophenol	74	59	21-120
Phenol-d6	63	50	10-120
Nitrobenzene-d5	77	62	23-120
2-Fluorobiphenyl	73	60	15-120
2,4,6-Tribromophenol	72	58	10-120
4-Terphenyl-d14	77	64	41-149

Benzo(ghi)perylene

METALS



 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

 Lab ID:
 L2340632-01
 Date Collected:
 07/14/23 13:35

 Client ID:
 FIELD BLANK
 Date Received:
 07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Ma	ansfield Lab										
Lead, Total	ND		ug/l	1.000	0.3430	1	07/17/23 17:2	5 07/20/23 18:33	3 EPA 3005A	1,6020B	SMV



07/14/23 13:30

Date Collected:

 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-02

Client ID: PES-M_1.0-1.5_071423 Date Received: 07/14/23
Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 83%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyse

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 30.4 Lead, Total mg/kg 2.37 0.127 1 07/20/23 05:40 07/20/23 18:40 EPA 3050B 1,6010D MRC



Project Name: Lab Number: **PESRM** L2340632 **Project Number:** 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-03 07/14/23 13:35

Client ID: PES-G_1.7-2.2_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil 84% Percent Solids:

Prep **Analytical** Dilution Date Date Method Result Qualifier Units RL MDL Factor Prepared Analyzed Method

Parameter Analyst Total Metals - Mansfield Lab 6.99 Lead, Total mg/kg 2.30 0.123 1 07/20/23 05:40 07/20/23 18:31 EPA 3050B 1,6010D MRC



07/14/23 14:00

 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-04 Date Collected:

Client ID: PEB-D_4.5-5.0_071423 Date Received: 07/14/23
Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 85%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 25.3 Lead, Total mg/kg 2.26 0.121 1 07/20/23 05:40 07/20/23 18:34 EPA 3050B 1,6010D MRC



1,6010D

MRC

 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-05 Date Collected: 07/14/23 14:05

2.50

mg/kg

Client ID: PEB-H_4.5-5.0_071423 Date Received: 07/14/23
Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Lead, Total

Matrix: Soil

9.83

75% Percent Solids: Prep **Analytical** Dilution Date Date Method **Parameter** Result Qualifier Units RL MDL Factor Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab

1

07/20/23 05:40 07/20/23 18:37 EPA 3050B

0.134



 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-06 Date Collected: 07/14/23 14:15

Client ID: PEB-I_4.5-5.0_071423 Date Received: 07/14/23
Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 85%

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Total Metals - Mansfield Lab

Lead, Total 46.5 mg/kg 2.27 0.122 1 07/20/23 05:40 07/20/23 19:23 EPA 3050B 1,6010D MRC



07/14/23 14:20

Project Name: Lab Number: **PESRM** L2340632 **Report Date: Project Number:** 220181801 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-07 Date Collected:

Client ID: PEB-C_4.5-5.0_071423 Date Received: 07/14/23 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Sample Location: Not Specified

Sample Depth:

Matrix: Soil 89% Percent Solids:

Analytical Dilution Date Date Prep

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mar	nsfield Lab										
Lead, Total	9.96		mg/kg	2.14	0.114	1	07/20/23 05:40	07/20/23 19:26	EPA 3050B	1,6010D	MRC



07/14/23 14:25

Date Collected:

 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-08

Client ID: PEB-B_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 87%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyse

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab Lead, Total 24.4 mg/kg 2.22 0.119 1 07/20/23 05:40 07/20/23 19:29 EPA 3050B 1,6010D MRC



07/14/23 14:30

Project Name: Lab Number: **PESRM** L2340632 **Project Number:** 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-09 Date Collected:

Client ID: PEB-F_4.5-5.0_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil 81% Percent Solids:

Prep **Analytical** Dilution Date Date Method Result Qualifier Units RL MDL Factor Prepared Analyzed Method

Parameter Analyst Total Metals - Mansfield Lab 57.1 Lead, Total mg/kg 2.44 0.130 1 07/20/23 05:40 07/20/23 19:31 EPA 3050B 1,6010D MRC



07/14/23 14:45

 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-10 Date Collected:

Client ID: PEB-J_6.0-6.5_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 84%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyse

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 7.40 Lead, Total mg/kg 2.26 0.121 1 07/20/23 05:40 07/20/23 19:34 EPA 3050B 1,6010D MRC



07/14/23 14:50

Date Collected:

Project Name: Lab Number: **PESRM** L2340632 **Project Number:** 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-11

Client ID: PES-K_3.1-3.6_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil 83% Percent Solids:

Prep **Analytical** Dilution Date Date Method

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab Lead, Total 14.2 mg/kg 2.32 0.125 1 07/20/23 05:40 07/20/23 19:37 EPA 3050B 1,6010D MRC



07/14/23 14:55

Date Collected:

 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-12

Client ID: PES-L_3.1-3.6_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 83%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyse

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 7.40 Lead, Total mg/kg 2.34 0.125 1 07/20/23 05:40 07/20/23 19:40 EPA 3050B 1,6010D MRC



 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-13 Date Collected: 07/14/23 14:55

Client ID: PES-A_4.2-4.7_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 78%

Dilution Date Date Prep Analytical

Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Δηριγεί

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 7.24 Lead, Total mg/kg 2.41 0.129 1 07/20/23 05:40 07/20/23 19:42 EPA 3050B 1,6010D MRC



07/14/23 15:00

 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-14 Date Collected:

Client ID: PES-E_5.2-5.7_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 80%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analysi

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Total Metals - Mansfield Lab

Lead, Total 7.04 mg/kg 2.40 0.129 1 07/20/23 05:40 07/20/23 19:45 EPA 3050B 1,6010D MRC



Project Name: Lab Number: **PESRM** L2340632 **Project Number:** 220181801 **Report Date:** 04/03/24

SAMPLE RESULTS

Lab ID: Date Collected: 07/14/23 00:00 L2340632-15

Client ID: DUP-1 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Matrix: Soil 88% Percent Solids:

Prep **Analytical** Dilution Date Date Method Result Qualifier Units RL MDL Factor Prepared Analyzed Method

Parameter Analyst Total Metals - Mansfield Lab 42.1 Lead, Total mg/kg 2.21 0.118 1 07/20/23 05:40 07/20/23 19:48 EPA 3050B 1,6010D MRC



Project Name: PESRM
Project Number: 220181801

Lab Number:

L2340632

Report Date:

04/03/24

Method Blank Analysis Batch Quality Control

Dilution Analytical **Date Date Result Qualifier Factor Prepared** Analyzed Method Analyst **Parameter Units** RL **MDL** Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1804106-1 Lead, Total ND 1.000 0.3430 07/17/23 17:25 07/20/23 17:33 1,6020B SMV ug/l 1

Prep Information

Digestion Method: EPA 3005A

Dilution Analytical Date **Date Factor** Method Analyst **Result Qualifier Units** RL**Prepared** Analyzed **Parameter** MDL Total Metals - Mansfield Lab for sample(s): 02-15 Batch: WG1804158-1 Lead, Total ND MRC mg/kg 2.00 0.107 07/20/23 18:26 1,6010D 1 07/20/23 05:40

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: PESRM Project Number:

220181801

Lab Number:

L2340632 04/03/24

Report Date:

Parameter	LCS %Recovery	Qual %l	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab Associated samp	ole(s): 01 Batch:	WG1804106-2							
Lead, Total	100		-		80-120	-			
Total Metals - Mansfield Lab Associated samp	ole(s): 02-15 Bato	ch: WG1804158	3-2 SRM L	ot Number:	D119-540				
Lead, Total	110		-		82-118	-			



Matrix Spike Analysis Batch Quality Control

Project Name: PESRM
Project Number: 220181801

Lab Number:

L2340632

Report Date:

04/03/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qua	MSD Found	MSD %Recovery		overy nits RPI	O Qual	RPD Limits
Total Metals - Mans	sfield Lab Associated sam	nple(s): 01	QC Batch II	D: WG180410	6-3	QC Sample:	: L2340476-01	Client ID:	MS Sample		
Lead, Total	1.100	530	508.7	96		-	-	75	-125 -		20
Total Metals - Mans	sfield Lab Associated sam	nple(s): 02-1	5 QC Bato	ch ID: WG1804	4158-3	QC Sam	ple: L2340632-	02 Client	D: PES-M_	1.0-1.5_	071423
Lead, Total	30.4	48.1	78.8	100		-	-	75	-125 -		20



Lab Duplicate Analysis Batch Quality Control

Project Name: PESRM
Project Number: 220181801

Lab Number:

L2340632

Report Date:

04/03/24

Parameter		Native Sample	Duplica	ate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab	Associated sample(s): 01	QC Batch ID: W	/G1804106-4 C	C Sample:	L2340476-01	Client ID: D	UP Sample	
Lead, Total		1.100		1.129	ug/l	3		20
Total Metals - Mansfield Lab	Associated sample(s): 02-15	G QC Batch ID:	: WG1804158-4	QC Samp	le: L2340632-0	2 Client ID	: PES-M_1.	0-1.5_071423
Lead, Total		30.4		15.5	mg/kg	65	Q	20



INORGANICS & MISCELLANEOUS



Project Name:PESRMLab Number:L2340632Project Number:220181801Report Date:04/03/24

SAMPLE RESULTS

Lab ID: L2340632-02 Date Collected: 07/14/23 13:30

Client ID: PES-M_1.0-1.5_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	82.7		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name:PESRMLab Number:L2340632Project Number:220181801Report Date:04/03/24

SAMPLE RESULTS

Lab ID: L2340632-03 Date Collected: 07/14/23 13:35

Client ID: PES-G_1.7-2.2_071423 Date Received: 07/14/23 Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	84.3		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 04/03/24

Report Date:

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-04 07/14/23 14:00

Client ID: Date Received: PEB-D_4.5-5.0_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result Qual	ifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab								
Solids, Total	84.7	%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 Report Date: 04/03/24

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-05 07/14/23 14:05

Client ID: Date Received: PEB-H_4.5-5.0_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result Quali	ier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab								
Solids, Total	75.2	%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801

Report Date: 04/03/24

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-06 07/14/23 14:15

Client ID: Date Received: PEB-I_4.5-5.0_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	84.6		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 04/03/24

Report Date:

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-07 07/14/23 14:20

Client ID: Date Received: PEB-C_4.5-5.0_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab								
Solids, Total	88.7	%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 Report Date: 04/03/24

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-08 07/14/23 14:25

Client ID: Date Received: PEB-B_4.5-5.0_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result (Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry	- Westborough Lab									
Solids, Total	86.7		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 04/03/24

Report Date:

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-09 07/14/23 14:30

Client ID: Date Received: PEB-F_4.5-5.0_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result C	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	80.6		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 Report Date: 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-10 Date Collected:

07/14/23 14:45

Client ID:

PEB-J_6.0-6.5_071423

Date Received:

07/14/23

Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA

Not Specified Field Prep:

Sample Depth:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry	- Westborough Lab									
Solids, Total	84.1		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 04/03/24

Report Date:

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-11 07/14/23 14:50

Client ID: Date Received: PES-K_3.1-3.6_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result C	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	82.7		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801

Report Date: 04/03/24

SAMPLE RESULTS

Lab ID: L2340632-12 Date Collected: 07/14/23 14:55

Client ID: Date Received: PES-L_3.1-3.6_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result C	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	82.9		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 04/03/24

Report Date:

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-13 07/14/23 14:55

Client ID: Date Received: PES-A_4.2-4.7_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	78.4		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801 04/03/24

Report Date:

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-14 07/14/23 15:00

Client ID: Date Received: PES-E_5.2-5.7_071423 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	80.0		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Project Name: Lab Number: **PESRM** L2340632 Project Number: 220181801

Report Date: 04/03/24

SAMPLE RESULTS

Lab ID: Date Collected: L2340632-15 07/14/23 00:00

Client ID: DUP-1 Date Received: 07/14/23 Not Specified Sample Location: 3144 W. PASSYUNK PHILADELPHIA, PA Field Prep:

Sample Depth:

Parameter	Result (Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	87.5		%	0.100	NA	1	-	07/15/23 13:12	121,2540G	ROI



Lab Duplicate Analysis

Batch Quality Control

Lab Number:

L2340632

Report Date:

04/03/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Ass 1.5_071423	ociated sample(s): 02-15 QC Batch	ID: WG1803618-1	QC Sample:	L2340632-02	Client ID:	PES-M_1.0-
Solids, Total	82.7	81.8	%	1		20



Project Name:

Project Number:

PESRM

220181801

Project Name: PESRM La
Project Number: 220181801 Re

Lab Number: L2340632 **Report Date:** 04/03/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler Custody Seal

A Absent B Absent

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2340632-01A	Vial HCl preserved	Α	NA		3.1	Υ	Absent		PA-8260(14)
L2340632-01B	Vial HCl preserved	Α	NA		3.1	Υ	Absent		PA-8260(14)
L2340632-01C	Vial HCl preserved	Α	NA		3.1	Υ	Absent		PA-8260(14)
L2340632-01D	Vial Na2S2O3 preserved	Α	NA		3.1	Υ	Absent		8011(14)
L2340632-01E	Vial Na2S2O3 preserved	Α	NA		3.1	Υ	Absent		8011(14)
L2340632-01F	Plastic 250ml HNO3 preserved	Α	<2	<2	3.1	Υ	Absent		PB-6020T-PPB(180)
L2340632-01G	Amber 250ml unpreserved	Α	7	7	3.1	Υ	Absent		PA-8270-LVI(7)
L2340632-01H	Amber 250ml unpreserved	Α	7	7	3.1	Υ	Absent		PA-8270-LVI(7)
L2340632-02A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		PA-8260HLW(14)
L2340632-02B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-02C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-02D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L2340632-02E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		PB-TI(180)
L2340632-02F	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		PA-8270(14)
L2340632-03A	Vial MeOH preserved	В	NA		2.9	Υ	Absent		PA-8260HLW(14)
L2340632-03B	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-03C	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-03D	Plastic 2oz unpreserved for TS	В	NA		2.9	Υ	Absent		TS(7)
L2340632-03E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.9	Υ	Absent		PB-TI(180)
L2340632-03F	Glass 120ml/4oz unpreserved	В	NA		2.9	Υ	Absent		PA-8270(14)
L2340632-04A	Vial MeOH preserved	В	NA		2.9	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2340632-04B	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)



Lab Number: L2340632

Report Date: 04/03/24

Project Name: PESRMProject Number: 220181801

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler		pН		Pres	Seal	Date/Time	Analysis(*)
L2340632-04C	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-04D	Plastic 2oz unpreserved for TS	В	NA		2.9	Υ	Absent		TS(7)
L2340632-04E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.9	Υ	Absent		PB-TI(180)
L2340632-04F	Glass 120ml/4oz unpreserved	В	NA		2.9	Υ	Absent		PA-8270(14)
L2340632-05A	Vial MeOH preserved	В	NA		2.9	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2340632-05B	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-05C	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-05D	Plastic 2oz unpreserved for TS	В	NA		2.9	Υ	Absent		TS(7)
L2340632-05E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.9	Υ	Absent		PB-TI(180)
L2340632-05F	Glass 120ml/4oz unpreserved	В	NA		2.9	Υ	Absent		PA-8270(14)
L2340632-06A	Vial MeOH preserved	В	NA		2.9	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2340632-06B	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-06C	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-06D	Plastic 2oz unpreserved for TS	В	NA		2.9	Υ	Absent		TS(7)
L2340632-06E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.9	Υ	Absent		PB-TI(180)
L2340632-06F	Glass 120ml/4oz unpreserved	В	NA		2.9	Υ	Absent		PA-8270(14)
L2340632-07A	Vial MeOH preserved	В	NA		2.9	Υ	Absent		PA-8260HLW(14)
L2340632-07B	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-07C	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-07D	Plastic 2oz unpreserved for TS	В	NA		2.9	Υ	Absent		TS(7)
L2340632-07E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.9	Υ	Absent		PB-TI(180)
L2340632-07F	Glass 120ml/4oz unpreserved	В	NA		2.9	Υ	Absent		PA-8270(14)
L2340632-08A	Vial MeOH preserved	В	NA		2.9	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2340632-08B	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-08C	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-08D	Plastic 2oz unpreserved for TS	В	NA		2.9	Υ	Absent		TS(7)
L2340632-08E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.9	Υ	Absent		PB-TI(180)
L2340632-08F	Glass 120ml/4oz unpreserved	В	NA		2.9	Υ	Absent		PA-8270(14)



Lab Number: L2340632

Report Date: 04/03/24

Project Name: PESRMProject Number: 220181801

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2340632-09A	Vial MeOH preserved	В	NA		2.9	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2340632-09B	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-09C	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-09D	Plastic 2oz unpreserved for TS	В	NA		2.9	Υ	Absent		TS(7)
L2340632-09E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.9	Υ	Absent		PB-TI(180)
L2340632-09F	Glass 120ml/4oz unpreserved	В	NA		2.9	Υ	Absent		PA-8270(14)
L2340632-10A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2340632-10B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-10C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-10D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L2340632-10E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		PB-TI(180)
L2340632-10F	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		PA-8270(14)
L2340632-11A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		PA-8260HLW(14)
L2340632-11B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-11C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-11D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L2340632-11E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		PB-TI(180)
L2340632-11F	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		PA-8270(14)
L2340632-12A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2340632-12B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-12C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-12D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L2340632-12E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		PB-TI(180)
L2340632-12F	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		PA-8270(14)
L2340632-13A	Vial MeOH preserved	В	NA		2.9	Υ	Absent		PA-8260HLW(14)
L2340632-13B	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-13C	Vial water preserved	В	NA		2.9	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-13D	Plastic 2oz unpreserved for TS	В	NA		2.9	Υ	Absent		TS(7)



Lab Number: L2340632

Report Date: 04/03/24

Project Name:PESRMProject Number:220181801

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2340632-13E	Metals Only-Glass 60mL/2oz unpreserved	В	NA		2.9	Υ	Absent		PB-TI(180)
L2340632-13F	Glass 120ml/4oz unpreserved	В	NA		2.9	Υ	Absent		PA-8270(14)
L2340632-14A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		PA-8260H(14),PA-8260HLW(14)
L2340632-14B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-14C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260H(14),PA-8260HLW(14)
L2340632-14D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L2340632-14E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		PB-TI(180)
L2340632-14F	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		PA-8270(14)
L2340632-15A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		PA-8260HLW(14)
L2340632-15B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-15C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUL-23 08:25	PA-8260HLW(14)
L2340632-15D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L2340632-15E	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		PB-TI(180)
L2340632-15F	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		PA-8270(14)



Project Name:PESRMLab Number:L2340632Project Number:220181801Report Date:04/03/24

GLOSSARY

Acronyms

EMPC

LOQ

MS

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable (DoD report formats only)

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

 Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

 Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name:PESRMLab Number:L2340632Project Number:220181801Report Date:04/03/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benzo(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit
 (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name:PESRMLab Number:L2340632Project Number:220181801Report Date:04/03/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



 Project Name:
 PESRM
 Lab Number:
 L2340632

 Project Number:
 220181801
 Report Date:
 04/03/24

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 20

Page 1 of 1

Published Date: 6/16/2023 4:52:28 PM

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-Ethyltoluene, Az

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kieldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

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Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A12.D

Acq On : 19 Jul 2023 11:53 am

Operator : VOA131:AJK

Sample : L2340632-02,31H,6.47,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 12 Sample Multiplier: 1

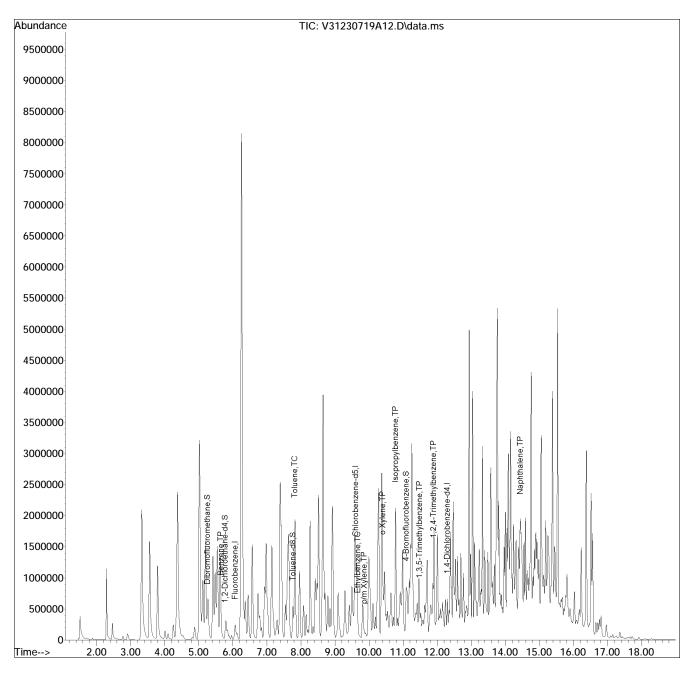
Quant Time: Jul 20 12:56:15 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Thu Jul 20 12:57:52 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A13.D

Acq On : 19 Jul 2023 12:16 pm

Operator : VOA131:AJK

Sample : L2340632-03D,31H,5.96,5,0.02,,A

Misc : WG1805480,ICAL19865 ALS Vial : 13 Sample Multiplier: 1

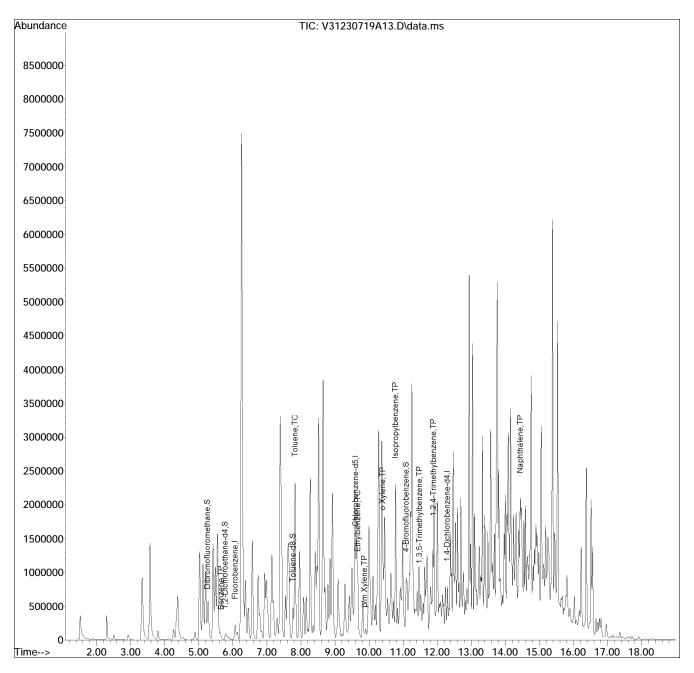
Quant Time: Jul 20 12:56:20 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Thu Jul 20 12:57:57 2023

Data Path : K:\VOA123\2023\230807A\

Data File : V23230807A26.D

Acq On : 07 Aug 2023 06:20 pm

Operator : VOA123:JIC

Sample : 12340632-04,31,5.87,5,,c
Misc : WG1813902,ICAL20232
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 08 11:55:57 2023

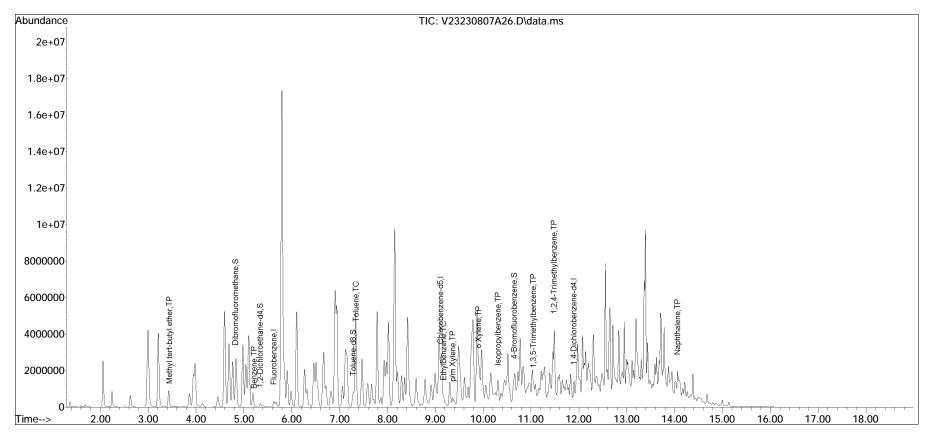
Quant Method: K:\VOA123\2023\230807A\V123_230803A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Fri Aug 04 10:23:20 2023

Response via : Initial Calibration

Sub List : 8260-PA ShortList - PA Short list807A01.D•



V123_230803A_8260.m Wed Aug 09 14:08:43 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A14.D

Acq On : 19 Jul 2023 12:39 pm

Operator : VOA131:AJK

Sample : L2340632-04,31H,5.79,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 14 Sample Multiplier: 1

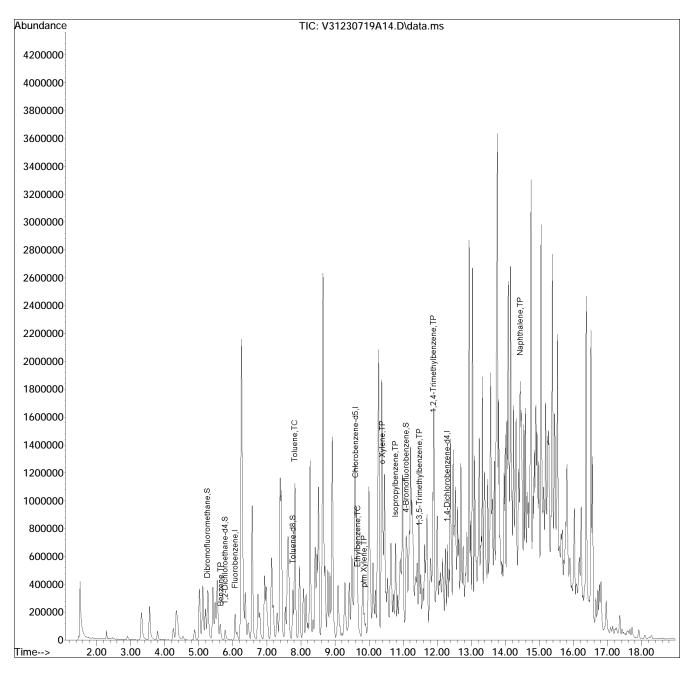
Quant Time: Jul 20 12:56:27 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Wed Aug 09 13:46:35 2023

Data Path : K:\VOA123\2023\230807A\

Data File : V23230807A25.D

Acq On : 07 Aug 2023 05:54 pm

Operator : VOA123:JIC

Sample : 12340632-05,31,5.48,5,,c
Misc : WG1813902,ICAL20232
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 08 11:55:46 2023

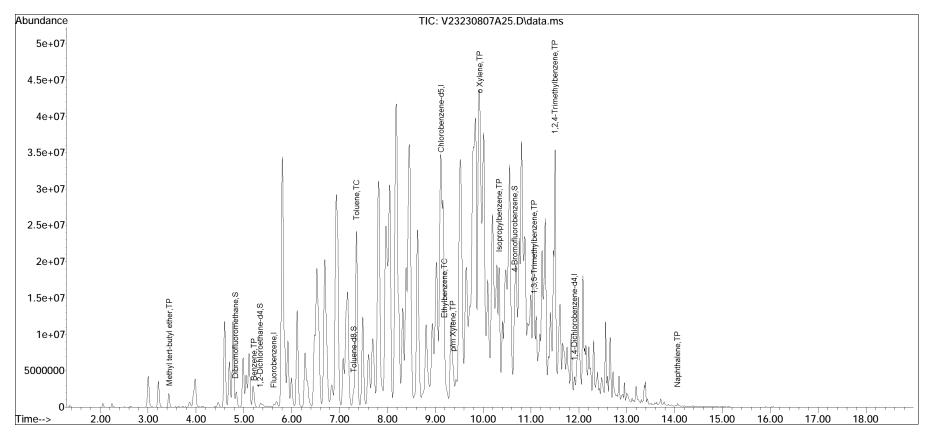
Quant Method: K:\VOA123\2023\230807A\V123_230803A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Fri Aug 04 10:23:20 2023

Response via : Initial Calibration

Sub List : 8260-PA ShortList - PA Short list807A01.D•



V123_230803A_8260.m Wed Aug 09 14:08:37 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A15.D

Acq On : 19 Jul 2023 01:03 pm

Operator : VOA131:AJK

Sample : L2340632-05,31H,4.08,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 15 Sample Multiplier: 1

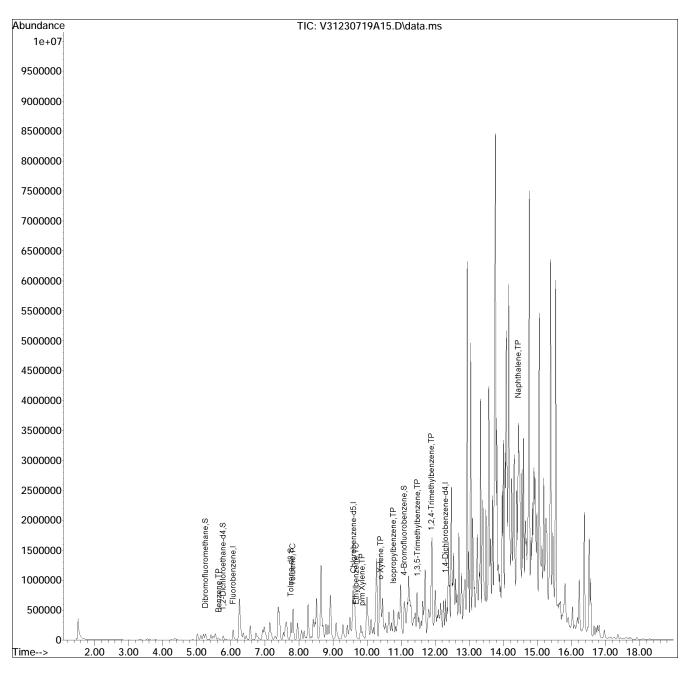
Quant Time: Jul 20 12:56:44 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Wed Aug 09 13:46:41 2023

Data Path : K:\VOA123\2023\230807A\

Data File : V23230807A24.D

Acq On : 07 Aug 2023 05:28 pm

Operator : VOA123:JIC

Sample : 12340632-06,31,13.95,5,,c

Misc : WG1813902,ICAL20232

ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 08 07:12:46 2023

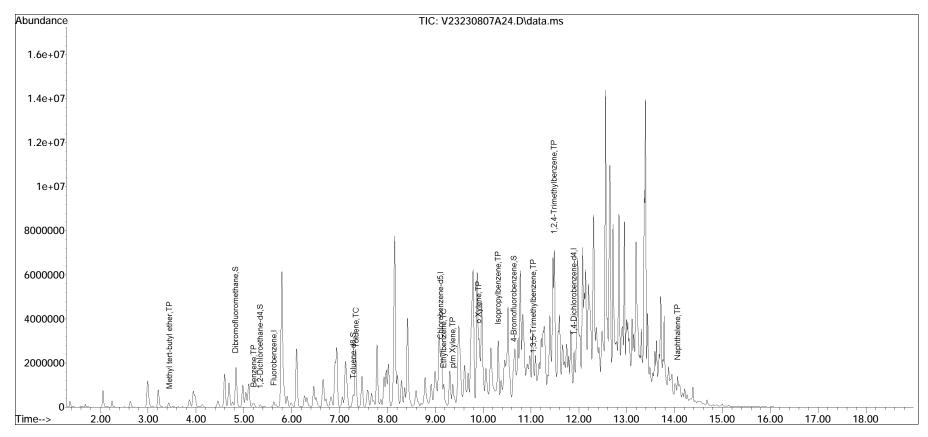
Quant Method: K:\VOA123\2023\230807A\V123_230803A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Fri Aug 04 10:23:20 2023

Response via : Initial Calibration

Sub List : 8260-PA ShortList - PA Short list807A01.D•



V123_230803A_8260.m Wed Aug 09 14:08:32 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A16.D

Acq On : 19 Jul 2023 01:26 pm

Operator : VOA131:AJK

Sample : L2340632-06,31H,6.96,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 16 Sample Multiplier: 1

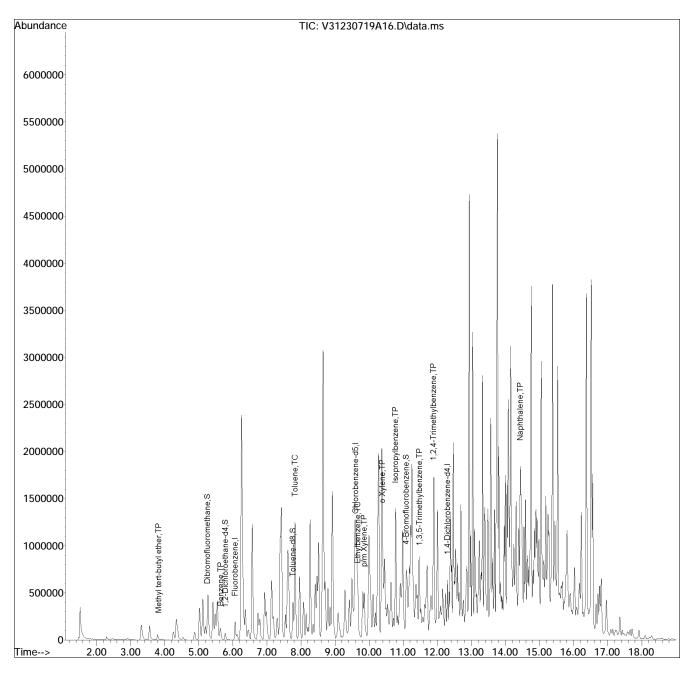
Quant Time: Jul 20 12:56:47 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Wed Aug 09 13:46:47 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A17.D

Acq On : 19 Jul 2023 01:49 pm

Operator : VOA131:AJK

Sample : L2340632-07,31H,5.31,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 17 Sample Multiplier: 1

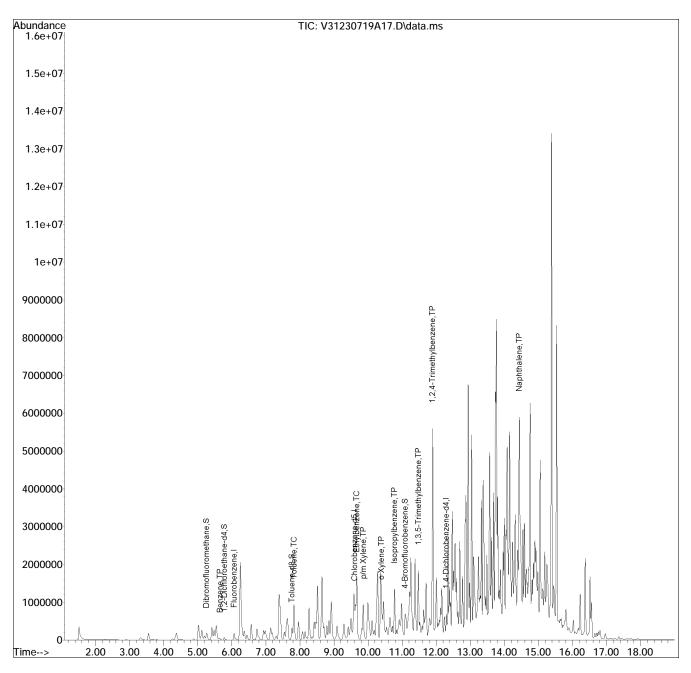
Quant Time: Jul 20 13:13:18 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Thu Jul 20 13:13:33 2023

Data Path : K:\VOA129\2023\230720N\

Data File : V29230720N23.D

Acq On : 21 Jul 2023 02:20 am

: VOA129:JIC Operator

Sample 12340632-08,31,5.99,5,,b

: WG1805927, ICAL19799 Misc

ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 21 07:20:52 2023

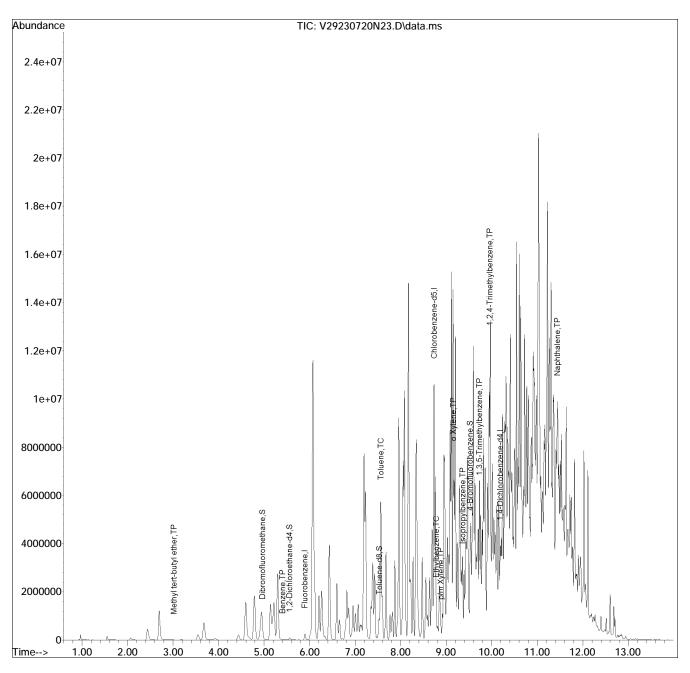
Quant Method: K:\VOA129\2023\230720N\V129_230308N_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Thu Mar 09 17:16:29 2023

Response via : Initial Calibration

Sub List : 8260-PA_ShortList - PA Short list720N01.D.



V129_230308N_8260.m Fri Jul 21 07:48:55 2023

Data Path : K:\VOA110\2023\230808A\

Data File : V10230808A06.D

Acq On : 8 Aug 2023 10:07 am

Operator : VOA110:AJK

Sample : L2340632-09,31,7.35,5,,B
Misc : WG1813743,ICAL20119
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 08 12:04:28 2023

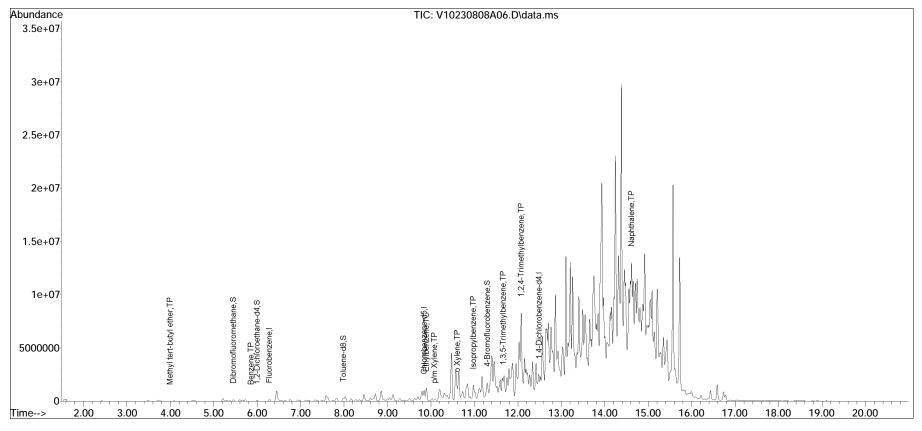
Quant Method : K:\VOA110\2023\230808A\V110_230622A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update: Thu Jun 22 09:59:23 2023

Response via : Initial Calibration

Sub List : 8260-PA ShortList - PA Short list808A01.D•



V110_230622A_8260.m Wed Aug 09 14:09:55 2023

Data Path : K:\VOA104\2023\230720A\

Data File : V04230720A06.D

Acq On : 20 Jul 2023 11:10 am

Operator : VOA104:JIC

Sample : L2340632-10,31,4.63,5,,C
Misc : WG1805621,ICAL19908
ALS Vial : 6 Sample Multiplier: 1

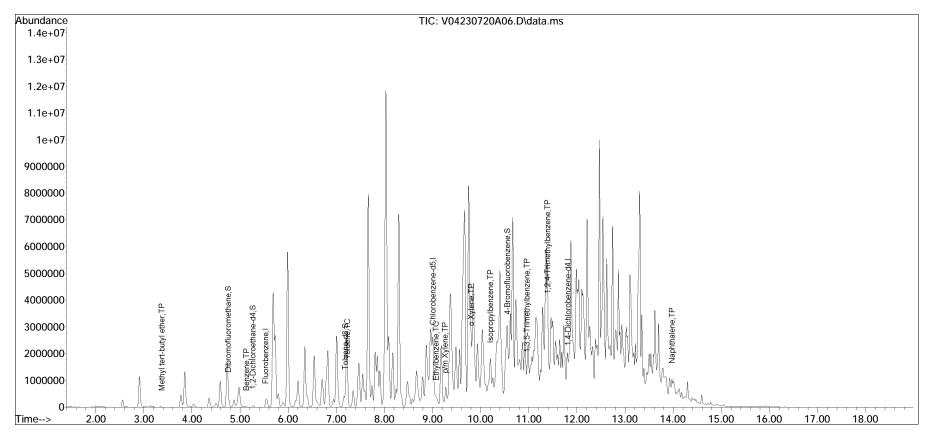
Quant Time: Jul 20 12:52:32 2023

Quant Method: K:\VOA104\2023\230720A\V104_230407N_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Tue Apr 11 16:51:00 2023

Response via : Initial Calibration



V104_230407N_8260.m Thu Jul 20 12:55:49 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A21.D

Acq On : 19 Jul 2023 03:23 pm

Operator : VOA131:JIC

Sample : L2340632-11,31H,5.75,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 21 Sample Multiplier: 1

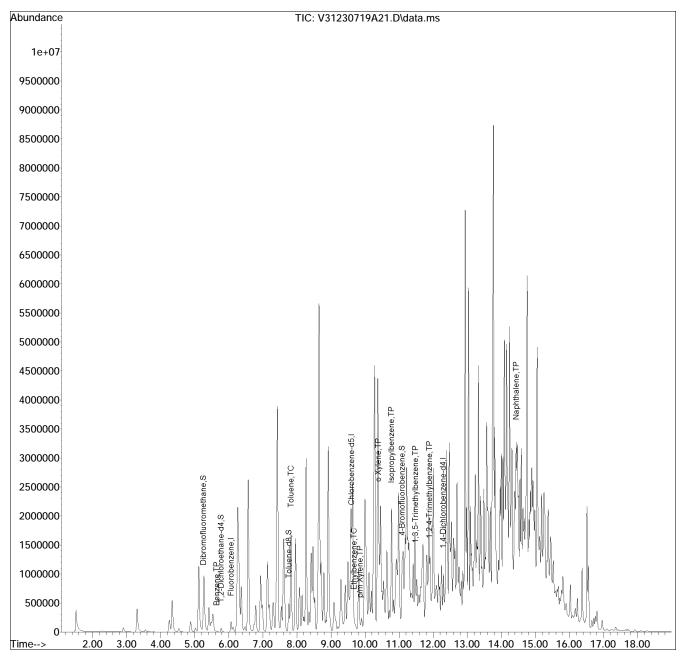
Quant Time: Jul 20 12:57:07 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Thu Jul 20 12:58:46 2023

Data Path : K:\VOA123\2023\230807A\

Data File : V23230807A22.D

Acq On : 07 Aug 2023 04:36 pm

Operator : VOA123:JIC

Sample : 12340632-12,31,6.79,5,,c
Misc : WG1813902,ICAL20232
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 11:55:13 2023

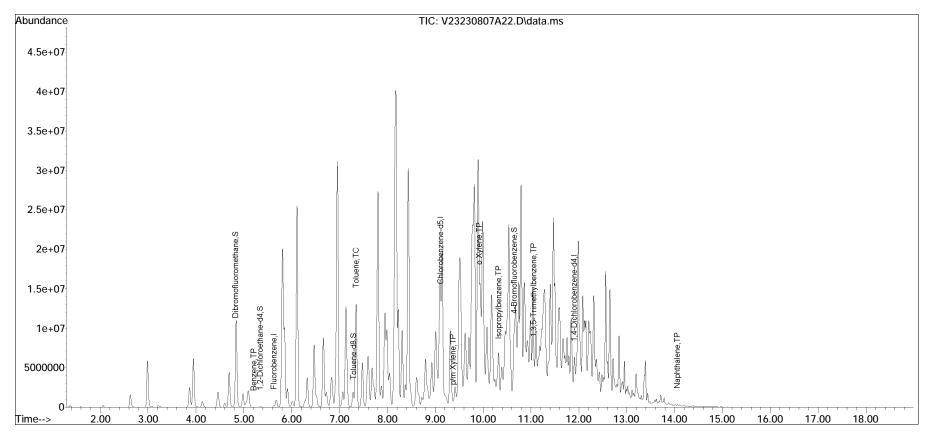
Quant Method: K:\VOA123\2023\230807A\V123_230803A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Fri Aug 04 10:23:20 2023

Response via : Initial Calibration

Sub List : 8260-PA ShortList - PA Short list807A01.D•



V123_230803A_8260.m Wed Aug 09 14:08:25 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A22.D

Acq On : 19 Jul 2023 03:46 pm

Operator : VOA131:JIC

Sample : L2340632-12,31H,7.64,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 22 Sample Multiplier: 1

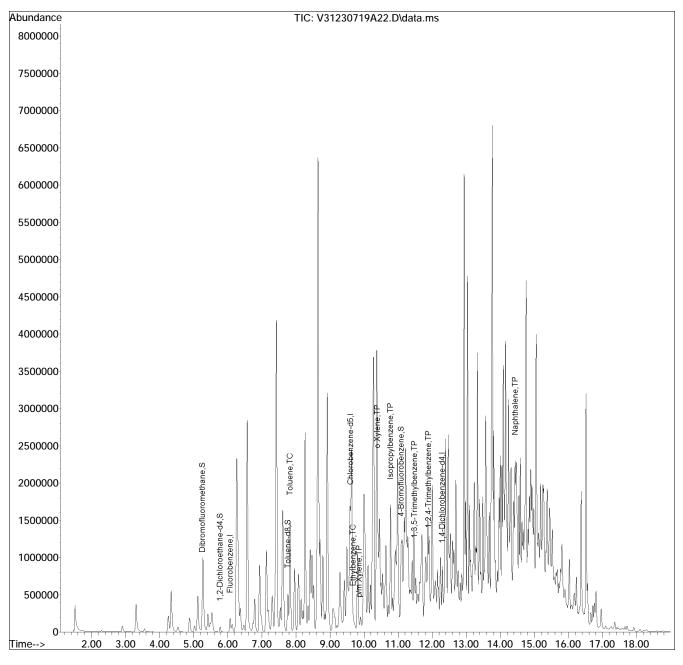
Quant Time: Jul 20 12:57:11 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Wed Aug 09 13:47:00 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A23.D

Acq On : 19 Jul 2023 04:10 pm

Operator : VOA131:JIC

Sample : L2340632-13,31H,6.33,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 23 Sample Multiplier: 1

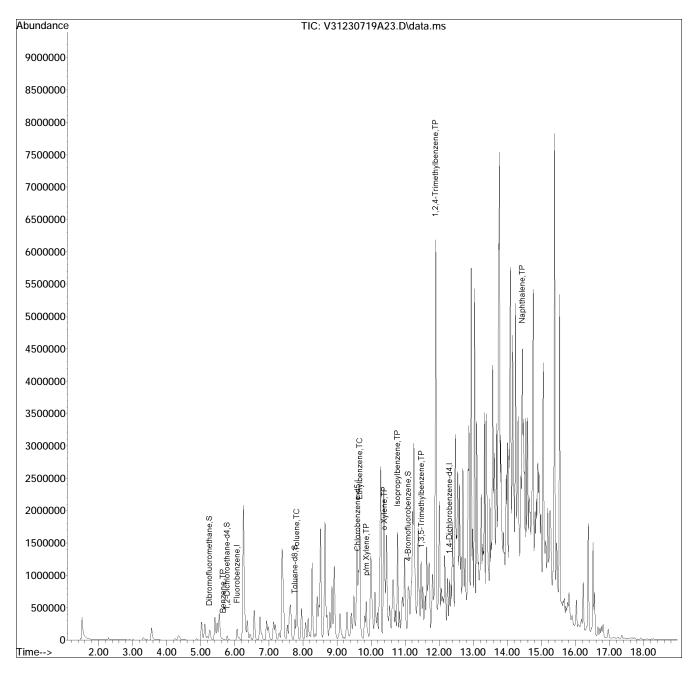
Quant Time: Jul 20 12:57:17 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Thu Jul 20 12:58:58 2023

Data Path : K:\VOA104\2023\230720A\

Data File : V04230720A07.D

Acq On : 20 Jul 2023 11:36 am

Operator : VOA104:JIC

Sample : L2340632-14,31,5.98,5,,B
Misc : WG1805621,ICAL19908
ALS Vial : 7 Sample Multiplier: 1

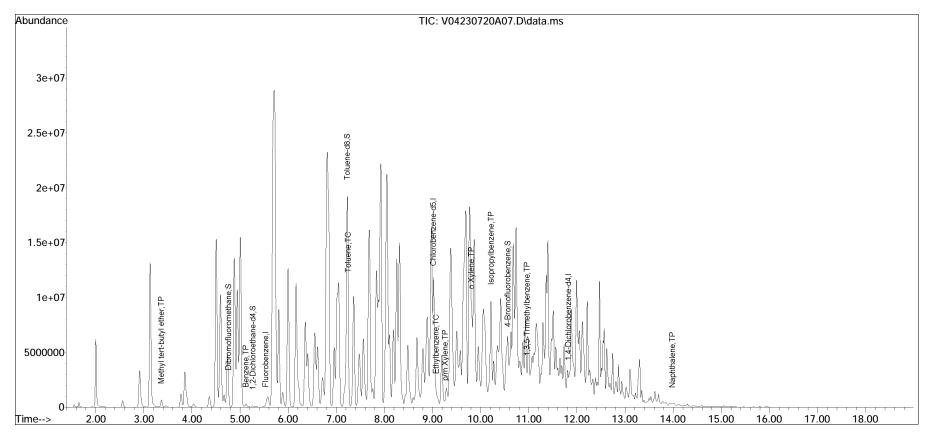
Quant Time: Jul 20 12:52:38 2023

Quant Method: K:\VOA104\2023\230720A\V104_230407N_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Tue Apr 11 16:51:00 2023

Response via : Initial Calibration



V104_230407N_8260.m Thu Jul 20 12:55:57 2023

Data Path : K:\VOA131\2023\230719A\

Data File : V31230719A25.D

Acq On : 19 Jul 2023 04:57 pm

Operator : VOA131:JIC

Sample : L2340632-15,31H,6.04,5,0.100,,A

Misc : WG1805480,ICAL19865 ALS Vial : 25 Sample Multiplier: 1

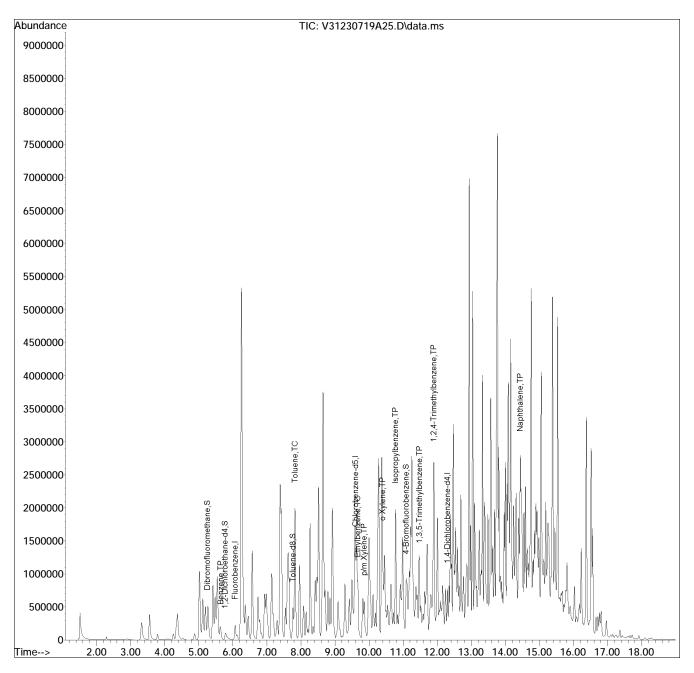
Quant Time: Jul 20 12:57:27 2023

Quant Method : K:\VOA131\2023\230719A\V31_230328A_8260.m

Quant Title : VOLATILES BY GC/MS

QLast Update : Wed Mar 29 10:40:23 2023

Response via : Initial Calibration



V31_230328A_8260.m Thu Jul 20 12:59:11 2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Adam Goldberg Langan Engineering & Environmental Srvcs 1818 Market St. Suite 3300 Philadelphia, Pennsylvania 19103-3638 Generated 8/21/2023 9:08:42 AM

JOB DESCRIPTION

HILCO/PES

JOB NUMBER

410-139186-1

Eurofins Lancaster Laboratories Environment Testing, LLC 2425 New Holland Pike
Lancaster PA 17601



Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Vanessa M. Badman Generated 8/21/2023 9:08:42 AM

Authorized for release by Vanessa Badman, Project Manager Vanessa.Badman@et.eurofinsus.com (717)556-9762

8/21/2023

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Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- · Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Variessa M. Badman

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Definitions/Glossary

Client: Langan Engineering & Environmental Srvcs

Job ID: 410-139186-1 Project/Site: HILCO/PES

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

	•
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

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Case Narrative

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Job ID: 410-139186-1

Job ID: 410-139186-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative 410-139186-1

Receipt

The samples were received on 8/16/2023 2:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

Receipt Exceptions

Per client request, the following sample IDs were updated as follows:

410-139186-8 - PEB-2H 5.0-5.5 081523 410-139186-9 - PEB-2I_5.0-5.5_081523

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Langan Engineering & Environmental Srvcs Project/Site: HILCO/PES	Job ID: 410-139186-1
Client Sample ID: PES-2A_4.2-4.7_081523	Lab Sample ID: 410-139186-1
No Detections.	
Client Sample ID: PEB-2B_5.0-5.5_081523	Lab Sample ID: 410-139186-2
No Detections.	
Client Sample ID: PEB-2C_5.0-5.5_081523	Lab Sample ID: 410-139186-3
No Detections.	
Client Sample ID: PEB-2D_5.0-5.5_081523	Lab Sample ID: 410-139186-4
No Detections.	
Client Sample ID: PES-2E_5.2-5.7_081523	Lab Sample ID: 410-139186-5
No Detections.	
Client Sample ID: PEB-2F_5.0-5.5_081523	Lab Sample ID: 410-139186-6
No Detections.	
Client Sample ID: PES-2G_1.7-2.2_081523	Lab Sample ID: 410-139186-7
No Detections.	
Client Sample ID: PEB-2H_5.0-5.5_081523	Lab Sample ID: 410-139186-8
No Detections.	
Client Sample ID: PEB-2I_5.0-5.5_081523	Lab Sample ID: 410-139186-9
No Detections.	
Client Sample ID: PEB-2J_6.5-7.0_081523	Lab Sample ID: 410-139186-10
No Detections.	
Client Sample ID: PES-2K_3.1-3.6_081523	Lab Sample ID: 410-139186-11
No Detections.	
Client Sample ID: PES-2L_3.1-3.6_081523	Lab Sample ID: 410-139186-12
No Detections.	
Client Sample ID: PES-2M_1.0-1.5_081523	Lab Sample ID: 410-139186-13
No Detections.	
Client Sample ID: DUP-1_081523	Lab Sample ID: 410-139186-14
No Detections.	
Client Sample ID: FB-1_081523	Lab Sample ID: 410-139186-15
No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Job ID: 410-139186-1

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Client Sample ID: PES-2A_4.2-4.7_081523

Date Collected: 08/15/23 13:05 Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-1

Matrix: Solid Percent Solids: 82.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (2C)	ND		0.59	0.25	ug/Kg	*	08/17/23 11:32	08/17/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	132		60 - 140				08/17/23 11:32	08/17/23 17:33	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	129		60 - 140				08/17/23 11:32	08/17/23 17:33	1

RL

1.0

MDL Unit

1.0

Result Qualifier

Percent Moisture (EPA Moisture) 17.9

Client Sample ID: PEB-2B_5.0-5.5_081523

Date Collected: 08/15/23 12:22 Date Received: 08/16/23 14:40

Analyte

08/17/23 07:56 Lab Sample ID: 410-139186-2

Prepared

Analyzed

Matrix: Solid Percent Solids: 80.7

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Ethylene Dibromide (1C)	ND		0.60	0.25	ug/Kg	<u></u>	08/17/23 11:32	08/17/23 17:50	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	105		60 - 140				08/17/23 11:32	08/17/23 17:50	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	140		60 - 140				08/17/23 11:32	08/17/23 17:50	1

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1.0 1.0 % 08/17/23 07:56 **Percent Moisture (EPA Moisture)** 19.3

Client Sample ID: PEB-2C_5.0-5.5_081523

Date Collected: 08/15/23 13:35 Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-3 Matrix: Solid Percent Solids: 81.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.59	0.25	ug/Kg	₽	08/17/23 11:32	08/17/23 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	113		60 - 140				08/17/23 11:32	08/17/23 18:07	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	130		60 - 140				08/17/23 11:32	08/17/23 18:07	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.6		1.0	1.0	%			08/17/23 07:56	1

Client Sample ID: PEB-2D_5.0-5.5_081523 Lab Sample ID: 410-139186-4

Date Collected: 08/15/23 12:00 Date Received: 08/16/23 14:40

Matrix: Solid Percent Solids: 79.4

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Ethylene Dibromide (1C)	ND		0.61	0.25	ug/Kg	*	08/17/23 11:32	08/17/23 18:24	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,1,2,2-Tetrachloroethane (Surr) (1C)	128		60 - 140				08/17/23 11:32	08/17/23 18:24	1	
1,1,2,2-Tetrachloroethane (Surr) (2C)	147	S1+	60 - 140				08/17/23 11:32	08/17/23 18:24	1	

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Client Sample ID: PEB-2D_5.0-5.5_081523

Date Collected: 08/15/23 12:00

Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-4

Matrix: Solid
Percent Solids: 79.4

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.6		1.0	1.0	%			08/17/23 07:56	1

Client Sample ID: PES-2E_5.2-5.7_081523 Lab Sample ID: 410-139186-5

Date Collected: 08/15/23 13:25

Date Received: 08/16/23 14:40

Matrix: Solid
Percent Solids: 76.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (2C)	ND		0.64	0.27	ug/Kg	-	08/17/23 11:32	08/17/23 18:41	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	114		60 - 140				08/17/23 11:32	08/17/23 18:41	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	135		60 - 140				08/17/23 11:32	08/17/23 18:41	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	24.0		1.0	1.0	%			08/17/23 07:56	1

Date Collected: 08/15/23 12:30 Matrix: Solid
Date Received: 08/16/23 14:40 Percent Solids: 78.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Ethylene Dibromide (1C)	ND		0.62	0.26	ug/Kg	-	08/17/23 11:32	08/17/23 18:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,1,2,2-Tetrachloroethane (Surr) (1C)	127		60 - 140				08/17/23 11:32	08/17/23 18:58	-
1,1,2,2-Tetrachloroethane (Surr) (2C)	140		60 - 140				08/17/23 11:32	08/17/23 18:58	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

 Percent Moisture (EPA Moisture)
 21.5
 1.0
 1.0
 %
 08/17/23 07:56
 1

Client Sample ID: PES-2G_1.7-2.2_081523

Lab Sample ID: 410-139186-7

Date Collected: 08/15/23 12:40

Date Received: 08/16/23 14:40

Percent Solids: 82.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.58	0.25	ug/Kg	\$	08/17/23 11:32	08/17/23 19:15	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,1,2,2-Tetrachloroethane (Surr) (1C)	131		60 - 140				08/17/23 11:32	08/17/23 19:15	
1,1,2,2-Tetrachloroethane (Surr) (2C)	132		60 - 140				08/17/23 11:32	08/17/23 19:15	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.7		1.0	1.0	%			08/17/23 07:56	

Job ID: 410-139186-1

Percent Solids: 82.1

Client Sample ID: PEB-2H_5.0-5.5_081523

Date Collected: 08/15/23 12:10 Date Received: 08/16/23 14:40 Lab Sample ID: 410-139186-8

Matrix: Solid

Method: SW846	8011 - FDR	DRCP	and 1 2	3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.58	0.24	ug/Kg	#	08/17/23 11:32	08/17/23 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.1.2.2-Tetrachloroethane (Surr) (1C)	103		60 - 140				08/17/23 11:32	08/17/23 19:32	

_	
General	Chemistry

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.9	1.0	1.0 %			08/17/23 07:56	1

60 - 140

132

Client Sample ID: PEB-2I_5.0-5.5_081523

Date Collected: 08/15/23 12:15 Date Received: 08/16/23 14:40

1,1,2,2-Tetrachloroethane (Surr) (2C)

Lab Sample ID: 410-139186-9

Matrix: Solid Percent Solids: 84.8

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

modification of the control of the c	. , and ., _ , o .	U. (UU)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.56	0.24	ug/Kg	#	08/17/23 11:32	08/17/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	109		60 - 140				08/17/23 11:32	08/17/23 19:49	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	148	S1+	60 - 140				08/17/23 11:32	08/17/23 19:49	1

General Chemistry

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.2	1.0	1.0	%			08/17/23 07:56	1

Client Sample ID: PEB-2J_6.5-7.0_081523

Date Collected: 08/15/23 13:20 Date Received: 08/16/23 14:40 Lab Sample ID: 410-139186-10

Percent Solids: 79.6

Matrix: Solid

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.61	0.26	ug/Kg	₩	08/17/23 11:32	08/17/23 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	85		60 - 140				08/17/23 11:32	08/17/23 20:06	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	103		60 - 140				08/17/23 11:32	08/17/23 20:06	1

General Chemistry

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.4	1.0	1.0 %			08/17/23 07:56	1

Client Sample ID: PES-2K_3.1-3.6_081523

Date Collected: 08/15/23 12:45 Date Received: 08/16/23 14:40 Lab Sample ID: 410-139186-11

Matrix: Solid
Percent Solids: 82.9

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.60	0.25	ug/Kg	<u></u>	08/17/23 11:32	08/17/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	117		60 - 140				08/17/23 11:32	08/17/23 20:24	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	127		60 - 140				08/17/23 11:32	08/17/23 20:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Client Sample ID: PES-2K_3.1-3.6_081523

Date Collected: 08/15/23 12:45 Date Received: 08/16/23 14:40 Lab Sample ID: 410-139186-11

Matrix: Solid
Percent Solids: 82.9

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.1		1.0	1.0	%			08/17/23 07:56	1

Client Sample ID: PES-2L_3.1-3.6_081523

Date Collected: 08/15/23 11:55

Date Received: 08/16/23 14:40

Lab	Sample	ID:	410	-	13	39	1	86)-'	12	2	
				_	_			_				

Matrix: Solid Percent Solids: 83.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.57	0.24	ug/Kg	₽	08/17/23 11:32	08/17/23 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	124		60 - 140				08/17/23 11:32	08/17/23 20:41	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	139		60 - 140				08/17/23 11:32	08/17/23 20:41	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.7		1.0	1.0	%			08/17/23 07:56	1

Client Sample ID: PES-2M_1.0-1.5_081523

Date Collected: 08/15/23 11:50

Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-13

Matrix: Solid

Percent Solids: 78.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Ethylene Dibromide (1C)	ND		0.64	0.27	ug/Kg	-	08/17/23 11:32	08/17/23 20:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	96		60 - 140				08/17/23 11:32	08/17/23 20:58	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	124		60 - 140				08/17/23 11:32	08/17/23 20:58	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	21.6		1.0	1.0	%			08/17/23 07:56	-

Client Sample ID: DUP-1_081523

Date Collected: 08/15/23 00:00

Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-14 **Matrix: Solid**

Percent Solids: 79.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.60	0.25	ug/Kg	<u> </u>	08/17/23 11:32	08/17/23 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	119		60 - 140				08/17/23 11:32	08/17/23 21:15	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	136		60 - 140				08/17/23 11:32	08/17/23 21:15	1

General Chemistry							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.8	1.0	1.0 %			08/17/23 07:56	1

Client Sample Results

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Lab Sample ID: 410-139186-15

Matrix: Water

Job ID: 410-139186-1

Client Sample ID: FB-1_081523 Date Collected: 08/15/23 07:45

Date Received: 08/16/23 14:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	ND		0.029	0.0096	ug/L		08/18/23 07:44	08/19/23 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	111		46 - 136				08/18/23 07:44	08/19/23 15:45	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	116		46 - 136				08/18/23 07:44	08/19/23 15:45	1

Surrogate Summary

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1122TCA1	1122TCA2	
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	
410-139186-1	PES-2A_4.2-4.7_081523	132	129	
410-139186-2	PEB-2B_5.0-5.5_081523	105	140	
410-139186-3	PEB-2C_5.0-5.5_081523	113	130	
410-139186-4	PEB-2D_5.0-5.5_081523	128	147 S1+	
410-139186-5	PES-2E_5.2-5.7_081523	114	135	
410-139186-6	PEB-2F_5.0-5.5_081523	127	140	
410-139186-7	PES-2G_1.7-2.2_081523	131	132	
410-139186-8	PEB-2H_5.0-5.5_081523	103	132	
410-139186-9	PEB-2I_5.0-5.5_081523	109	148 S1+	
410-139186-10	PEB-2J_6.5-7.0_081523	85	103	
410-139186-11	PES-2K_3.1-3.6_081523	117	127	
410-139186-12	PES-2L_3.1-3.6_081523	124	139	
410-139186-13	PES-2M_1.0-1.5_081523	96	124	
410-139186-14	DUP-1_081523	119	136	
LCS 410-409302/2-A	Lab Control Sample	108	110	
MB 410-409302/1-A	Method Blank	114	133	

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1122TCA1	1122TCA2	
Lab Sample ID	Client Sample ID	(46-136)	(46-136)	
410-139186-15	FB-1_081523	111	116	
LCS 410-409806/2-A	Lab Control Sample	109	110	
LCSD 410-409806/3-A	Lab Control Sample Dup	110	110	
MB 410-409806/1-A	Method Blank	108	108	
Surrogate Legend				

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Job ID: 410-139186-1

Prep Type: Total/NA **Prep Batch: 409302**

Prep Type: Total/NA

Prep Batch: 409302

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-409302/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 409543

MB MB Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Ethylene Dibromide (1C) ND 0.50 0.21 ug/Kg 08/17/23 11:32 08/17/23 14:59

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,1,2,2-Tetrachloroethane (Surr) (1C) 114 60 - 140 08/17/23 11:32 08/17/23 14:59 1,1,2,2-Tetrachloroethane (Surr) (2C) 133 60 - 140 08/17/23 11:32 08/17/23 14:59

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 410-409302/2-A

Matrix: Solid

Analyte

Analysis Batch: 409543

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Ethylene Dibromide (1C) 4.48 4.20 60 - 140 ug/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits 60 - 140 108 1,1,2,2-Tetrachloroethane (Surr) (1C)1,1,2,2-Tetrachloroethane (Surr) 110 60 - 140 (2C)

Lab Sample ID: MB 410-409806/1-A

Matrix: Water

Analysis Batch: 410208

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 409806**

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Ethylene Dibromide (1C) ND 0.030 0.010 ug/L 08/18/23 07:44 08/19/23 09:03

MB MB

Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 08/18/23 07:44 1,1,2,2-Tetrachloroethane (Surr) (1C) 108 46 - 136 08/19/23 09:03 1,1,2,2-Tetrachloroethane (Surr) (2C) 108 46 - 136 08/18/23 07:44 08/19/23 09:03

Analysis Batch: 410208

Lab Sample ID: LCS 410-409806/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Prep Batch: 409806

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits Ethylene Dibromide (1C) 0.128 0.146 ug/L 114 60 - 140

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (Surr)	109		46 - 136
(1C)			
1,1,2,2-Tetrachloroethane (Surr)	110		46 - 136
(2C)			

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Langan Engineering & Environmental Srvcs

Job ID: 410-139186-1 Project/Site: HILCO/PES

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-409806/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

(2C)

Analysis Batch: 410208

Prep Type: Total/NA Prep Batch: 409806

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylene Dibromide (1C)	0.128	0.145		ug/L		113	60 - 140	1	20

Ethylene Dibromide (1C)			0.128	0.145	ug/L	113	60
	LCSD	LCSD					
Surrogate	%Recovery	Qualifier	Limits				
1,1,2,2-Tetrachloroethane (Surr)	110		46 - 136				
(1C)							
1,1,2,2-Tetrachloroethane (Surr)	110		46 - 136				

QO ASSOCIATION Summary

Client: Langan Engineering & Environmental Srvcs

Job ID: 410-139186-1

Project/Site: HILCO/PES

GC Semi VOA

Prep Batch: 409302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-139186-1	PES-2A_4.2-4.7_081523	Total/NA	Solid	8011	
410-139186-2	PEB-2B_5.0-5.5_081523	Total/NA	Solid	8011	
410-139186-3	PEB-2C_5.0-5.5_081523	Total/NA	Solid	8011	
410-139186-4	PEB-2D_5.0-5.5_081523	Total/NA	Solid	8011	
410-139186-5	PES-2E_5.2-5.7_081523	Total/NA	Solid	8011	
410-139186-6	PEB-2F_5.0-5.5_081523	Total/NA	Solid	8011	
410-139186-7	PES-2G_1.7-2.2_081523	Total/NA	Solid	8011	
410-139186-8	PEB-2H_5.0-5.5_081523	Total/NA	Solid	8011	
410-139186-9	PEB-2I_5.0-5.5_081523	Total/NA	Solid	8011	
410-139186-10	PEB-2J_6.5-7.0_081523	Total/NA	Solid	8011	
410-139186-11	PES-2K_3.1-3.6_081523	Total/NA	Solid	8011	
410-139186-12	PES-2L_3.1-3.6_081523	Total/NA	Solid	8011	
410-139186-13	PES-2M_1.0-1.5_081523	Total/NA	Solid	8011	
410-139186-14	DUP-1_081523	Total/NA	Solid	8011	
MB 410-409302/1-A	Method Blank	Total/NA	Solid	8011	
LCS 410-409302/2-A	Lab Control Sample	Total/NA	Solid	8011	

Analysis Batch: 409543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-139186-1	PES-2A_4.2-4.7_081523	Total/NA	Solid	8011	409302
410-139186-2	PEB-2B_5.0-5.5_081523	Total/NA	Solid	8011	409302
410-139186-3	PEB-2C_5.0-5.5_081523	Total/NA	Solid	8011	409302
410-139186-4	PEB-2D_5.0-5.5_081523	Total/NA	Solid	8011	409302
410-139186-5	PES-2E_5.2-5.7_081523	Total/NA	Solid	8011	409302
410-139186-6	PEB-2F_5.0-5.5_081523	Total/NA	Solid	8011	409302
410-139186-7	PES-2G_1.7-2.2_081523	Total/NA	Solid	8011	409302
410-139186-8	PEB-2H_5.0-5.5_081523	Total/NA	Solid	8011	409302
410-139186-9	PEB-2I_5.0-5.5_081523	Total/NA	Solid	8011	409302
410-139186-10	PEB-2J_6.5-7.0_081523	Total/NA	Solid	8011	409302
410-139186-11	PES-2K_3.1-3.6_081523	Total/NA	Solid	8011	409302
410-139186-12	PES-2L_3.1-3.6_081523	Total/NA	Solid	8011	409302
410-139186-13	PES-2M_1.0-1.5_081523	Total/NA	Solid	8011	409302
410-139186-14	DUP-1_081523	Total/NA	Solid	8011	409302
MB 410-409302/1-A	Method Blank	Total/NA	Solid	8011	409302
LCS 410-409302/2-A	Lab Control Sample	Total/NA	Solid	8011	409302

Prep Batch: 409806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-139186-15	FB-1_081523	Total/NA	Water	8011	_
MB 410-409806/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-409806/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-409806/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 410208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-139186-15	FB-1_081523	Total/NA	Water	8011	409806
MB 410-409806/1-A	Method Blank	Total/NA	Water	8011	409806
LCS 410-409806/2-A	Lab Control Sample	Total/NA	Water	8011	409806
LCSD 410-409806/3-A	Lab Control Sample Dup	Total/NA	Water	8011	409806

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QC Association Summary

Client: Langan Engineering & Environmental Srvcs Job ID: 410-139186-1

Project/Site: HILCO/PES

General Chemistry

Analysis Batch: 409271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-139186-1	PES-2A_4.2-4.7_081523	Total/NA	Solid	Moisture	
410-139186-2	PEB-2B_5.0-5.5_081523	Total/NA	Solid	Moisture	
410-139186-3	PEB-2C_5.0-5.5_081523	Total/NA	Solid	Moisture	
410-139186-4	PEB-2D_5.0-5.5_081523	Total/NA	Solid	Moisture	
410-139186-5	PES-2E_5.2-5.7_081523	Total/NA	Solid	Moisture	
410-139186-6	PEB-2F_5.0-5.5_081523	Total/NA	Solid	Moisture	
410-139186-7	PES-2G_1.7-2.2_081523	Total/NA	Solid	Moisture	
410-139186-8	PEB-2H_5.0-5.5_081523	Total/NA	Solid	Moisture	
410-139186-9	PEB-2I_5.0-5.5_081523	Total/NA	Solid	Moisture	
410-139186-10	PEB-2J_6.5-7.0_081523	Total/NA	Solid	Moisture	
410-139186-11	PES-2K_3.1-3.6_081523	Total/NA	Solid	Moisture	
410-139186-12	PES-2L_3.1-3.6_081523	Total/NA	Solid	Moisture	
410-139186-13	PES-2M_1.0-1.5_081523	Total/NA	Solid	Moisture	
410-139186-14	DUP-1 081523	Total/NA	Solid	Moisture	

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Project/Site: HILCO/PES

Client Sample ID: PES-2A_4.2-4.7_081523

Date Collected: 08/15/23 13:05 Date Received: 08/16/23 14:40 Lab Sample ID: 410-139186-1

Matrix: Solid

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Туре	Method	Run	Factor	Number Analys	t Lab	or Analyzed
Total/NA	Analysis	Moisture		1	409271 UVJN	ELLE	08/17/23 07:56

Client Sample ID: PES-2A_4.2-4.7_081523

Date Collected: 08/15/23 13:05
Date Received: 08/16/23 14:40

Date Collected: 08/15/23 13:05

Lab Sample ID: 410-139186-1

Matrix: Solid
Percent Solids: 82.1

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 17:33

Client Sample ID: PEB-2B_5.0-5.5_081523

Date Collected: 08/15/23 12:22

Date Received: 08/16/23 14:40

Lab	Sample	ID:	410-139186-2
			Marketon Oallal

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture			409271	UVJN	ELLE	08/17/23 07:56

Client Sample ID: PEB-2B_5.0-5.5_081523

Date Collected: 08/15/23 12:22

Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-2

Matrix: Solid Percent Solids: 80.7

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 17:50

Client Sample ID: PEB-2C_5.0-5.5_081523

Date Collected: 08/15/23 13:35

Date Received: 08/16/23 14:40

		440 44	
Lab Sampl	e ID: 4	410-13	39186-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	409271	UVJN	ELLE	08/17/23 07:56

Client Sample ID: PEB-2C_5.0-5.5_081523

Date Collected: 08/15/23 13:35

Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-3

Matrix: Solid
Percent Solids: 81.4

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 18:07

Client Sample ID: PEB-2D_5.0-5.5_081523

Date Collected: 08/15/23 12:00

Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-4	Lab	Sample	ID: 4	110-139186-4
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture			409271	UVJN	ELLE	08/17/23 07:56

Eurofins Lancaster Laboratories Environment Testing, LLC

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Client Sample ID: PEB-2D_5.0-5.5_081523

Date Collected: 08/15/23 12:00 Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-4

Matrix: Solid

Percent Solids: 79.4

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 18:24

Client Sample ID: PES-2E_5.2-5.7_081523

Date Collected: 08/15/23 13:25 Date Received: 08/16/23 14:40 Lab Sample ID: 410-139186-5

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	409271	UVJN	ELLE	08/17/23 07:56

Client Sample ID: PES-2E_5.2-5.7_081523

Date Collected: 08/15/23 13:25 Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-5

Matrix: Solid

Percent Solids: 76.0

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 18:41

Client Sample ID: PEB-2F_5.0-5.5_081523

Date Collected: 08/15/23 12:30

Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	409271	UVJN	ELLE	08/17/23 07:56

Client Sample ID: PEB-2F_5.0-5.5_081523

Date Collected: 08/15/23 12:30

Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-6

Matrix: Solid

Percent Solids: 78.5

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 18:58

Client Sample ID: PES-2G_1.7-2.2_081523

Date Collected: 08/15/23 12:40 Date Received: 08/16/23 14:40

Lab Sample	ID: 41	0-1391	86-7
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture			409271	UVJN	ELLE	08/17/23 07:56

Job ID: 410-139186-1

Project/Site: HILCO/PES

Client Sample ID: PES-2G_1.7-2.2_081523

Client: Langan Engineering & Environmental Srvcs

Date Collected: 08/15/23 12:40 Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-7

Matrix: Solid

Percent Solids: 82.3

		Batch	Batch		Dilution	Batch			Prepared
	Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
	Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Į	Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 19:15

Client Sample ID: PEB-2H_5.0-5.5_081523 Lab Sample ID: 410-139186-8

Date Collected: 08/15/23 12:10 Date Received: 08/16/23 14:40

Matrix: Solid

Batch Batch Dilution Batch Prepared **Prep Type** Туре Method Run Factor Number Analyst Lab or Analyzed 409271 UVJN ELLE 08/17/23 07:56 Total/NA Analysis Moisture

Lab Sample ID: 410-139186-8 Client Sample ID: PEB-2H_5.0-5.5_081523

Date Collected: 08/15/23 12:10

Matrix: Solid

Date Received: 08/16/23 14:40 Percent Solids: 82.1

Batch Batch Dilution Batch Prepared Method Prep Type Туре Run Factor Number Analyst Lab or Analyzed Prep 8011 08/17/23 11:32 Total/NA 409302 U7CG FILE Total/NA Analysis 8011 409543 URS0 **ELLE** 08/17/23 19:32

Client Sample ID: PEB-2I_5.0-5.5_081523 Lab Sample ID: 410-139186-9

Date Collected: 08/15/23 12:15 Date Received: 08/16/23 14:40

Matrix: Solid

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed 08/17/23 07:56 Moisture 409271 UVJN ELLE Total/NA Analysis

Client Sample ID: PEB-2I_5.0-5.5_081523 Lab Sample ID: 410-139186-9

Date Collected: 08/15/23 12:15

Matrix: Solid

Date Received: 08/16/23 14:40 Percent Solids: 84.8

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 19:49

Client Sample ID: PEB-2J 6.5-7.0 081523 Lab Sample ID: 410-139186-10

Date Received: 08/16/23 14:40

Date Collected: 08/15/23 13:20 **Matrix: Solid**

Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed Prep Type Type Run Lab 08/17/23 07:56 Total/NA Analysis Moisture 409271 UVJN **ELLE**

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Client Sample ID: PEB-2J_6.5-7.0_081523

Date Collected: 08/15/23 13:20 Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-10

Matrix: Solid

Percent Solids: 79.6

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 20:06

Client Sample ID: PES-2K_3.1-3.6_081523

Date Collected: 08/15/23 12:45 Date Received: 08/16/23 14:40

Lab Sample ID: 410-139186-11

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	409271	UVJN	ELLE	08/17/23 07:56

Client Sample ID: PES-2K_3.1-3.6_081523

Lab Sample ID: 410-139186-11 Date Collected: 08/15/23 12:45

Matrix: Solid

Date Received: 08/16/23 14:40 Percent Solids: 82.9

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 20:24

Client Sample ID: PES-2L_3.1-3.6_081523

Lab Sample ID: 410-139186-12 Date Collected: 08/15/23 11:55

Matrix: Solid

Matrix: Solid

Date Received: 08/16/23 14:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture			409271	UVJN	ELLE	08/17/23 07:56

Lab Sample ID: 410-139186-12 Client Sample ID: PES-2L_3.1-3.6_081523

Date Collected: 08/15/23 11:55

Matrix: Solid Date Received: 08/16/23 14:40 Percent Solids: 83.3

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 20:41

Client Sample ID: PES-2M 1.0-1.5 081523 Lab Sample ID: 410-139186-13

Date Collected: 08/15/23 11:50 Date Received: 08/16/23 14:40

Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed Prep Type Туре Run Lab 08/17/23 07:56 Total/NA Analysis Moisture 409271 UVJN ELLE

Lab Chronicle

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Lab Sample ID: 410-139186-13

Matrix: Solid

Percent Solids: 78.4

Job ID: 410-139186-1

Client Sample ID: PES-2M_1.0-1.5_081523

Date Collected: 08/15/23 11:50 Date Received: 08/16/23 14:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 20:58

Client Sample ID: DUP-1_081523

Date Collected: 08/15/23 00:00

Date Received: 08/16/23 14:40

Lab Sample	ID: 410-139186-14
Lab Gampic	10. 410-103100-14

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	Moisture		1	409271	UVJN	ELLE	08/17/23 07:56

Client Sample ID: DUP-1_081523

Lab Sample ID: 410-139186-14 Date Collected: 08/15/23 00:00

Matrix: Solid

Date Received: 08/16/23 14:40 Percent Solids: 79.2

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409302	U7CG	ELLE	08/17/23 11:32
Total/NA	Analysis	8011		1	409543	URS0	ELLE	08/17/23 21:15

Client Sample ID: FB-1_081523

Lab Sample ID: 410-139186-15

Date Collected: 08/15/23 07:45 **Matrix: Water** Date Received: 08/16/23 14:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	8011			409806	UMAD	ELLE	08/18/23 07:44
Total/NA	Analysis	8011		1	410208	WN7O	ELLE	08/19/23 15:45

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Job ID: 410-139186-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date				
E Haz. Subst. Cleanup Act (HSCA)		State	019-006 (PA cert)	01-31-24				
The following analytes a the agency does not off Analysis Method	• •	but the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for whi				
8011	8011	Solid	Ethylene Dibromide (1C)					
			Ethylene Dibromide (2C)					
8011	8011	Solid	Ethylene Dibromide (2C)					
8011 8011	8011 8011	Solid Water	Ethylene Dibromide (2C) Ethylene Dibromide (1C)					

Method Summary

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Job ID: 410-139186-1

Method	Method Description	Protocol	Laboratory
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Langan Engineering & Environmental Srvcs

Project/Site: HILCO/PES

Job ID: 410-139186-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-139186-1	PES-2A_4.2-4.7_081523	Solid	08/15/23 13:05	08/16/23 14:40
410-139186-2	PEB-2B_5.0-5.5_081523	Solid	08/15/23 12:22	08/16/23 14:40
410-139186-3	PEB-2C_5.0-5.5_081523	Solid	08/15/23 13:35	08/16/23 14:40
410-139186-4	PEB-2D_5.0-5.5_081523	Solid	08/15/23 12:00	08/16/23 14:40
410-139186-5	PES-2E_5.2-5.7_081523	Solid	08/15/23 13:25	08/16/23 14:40
110-139186-6	PEB-2F_5.0-5.5_081523	Solid	08/15/23 12:30	08/16/23 14:40
110-139186-7	PES-2G_1.7-2.2_081523	Solid	08/15/23 12:40	08/16/23 14:40
110-139186-8	PEB-2H_5.0-5.5_081523	Solid	08/15/23 12:10	08/16/23 14:40
10-139186-9	PEB-2I_5.0-5.5_081523	Solid	08/15/23 12:15	08/16/23 14:40
10-139186-10	PEB-2J_6.5-7.0_081523	Solid	08/15/23 13:20	08/16/23 14:40
110-139186-11	PES-2K_3.1-3.6_081523	Solid	08/15/23 12:45	08/16/23 14:40
110-139186-12	PES-2L_3.1-3.6_081523	Solid	08/15/23 11:55	08/16/23 14:40
410-139186-13	PES-2M_1.0-1.5_081523	Solid	08/15/23 11:50	08/16/23 14:40
410-139186-14	DUP-1_081523	Solid	08/15/23 00:00	08/16/23 14:40
110-139186-15	FB-1_081523	Water	08/15/23 07:45	08/16/23 14:40

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Eurofins Lancaster Laboratories Environme

2425 New Holland Pike

Lancaster, PA 17601 Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins

Environment Testing

	Sampler	144	Chuh	Lab F			_	410	-139186	Chain o	f Custody				COC No:
Client Information Client Contact:	Phone			E-Ma	man, '	vanes	ssa		- 10	1Sta	ate of Origin			-4	410-95296-27048.1 Page:
Samentha Chubb. Adam Goldberg	215-8	45-89	45	Van	essa l	Badma	an@e	et eurof	insus com		P	4	-		Page 1 of 2
Company: Langan Engineering & Environmental Srvcs			PWSID						Analysis	Requ	ested			ľ	od #:
Address 1818 Market St. Suite 3300	Due Date Requeste	d:	7										10		Preservation Codes:
City	300 TAT Requested (da	ys):	_		118	1									A - HCL N - None B - NaOH O - AsNaO2
Philadelphia State, Zip	3 Da				5	8									C - Zn Acetate P - Na2O4S D - Nitric Acid P - Na2SO3
Phone:	Compliance Project	t: A Yes	A No		88										F - Na2S2O3
215-845-8900	Purchase Order	Requested			(0									100 1	G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid II - Asetone
Email SChubb@Langan.com; AGoldberg @ langan.com	WO#:				N TO I										J - DI Water W - DM 4.5
Project Name HILCO/PES	Project #: 41016272				(Yes	ide a	fture	e de							K - EDTA Y - Trizma L - EDA Z - other (specify)
Ste Philadelphia, PA	SSOW#		-		ample	Oibrom	nt Mois	Olbrom						of con	Other:
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewster, B=solid, D=waste/oll, BT=Tissue, A=Air	Field Filtered S	8011 - Ethylene I	Moisture - Perce	8011 - Ethylene I						Total Number	Special Instructions/Note:
	><	\times	Preserva	ation Code:	X	N	N	Α					1	X	
PFS-2A. 4.2-4.7. 681523	8/15/23	1305	6	Solid	MV	IX	X								
PEB-2B-5.0-5.5-081523	8/15/23	12:22	G	Solid	Ш	X	X								
PEB-2C-5.0-55-081523	8/15/23	13:35	G	Solid		X	X			\sqcup	\perp				
PEB-20-50-5.5-081523	8/15/23	12:00	G	Solid	Ш	X	X								
PES-2E-5.2-5.7-081523	8/15/23	13:25	9	Solid	Ш	X	X								
PEB-2F_5.0-5.5 081523	8/15/23	12:30	G	Solid	Ш	X	X								
PES-29-1.7-2.2 081523	8/15/23	12:40	G	Solid	Ш	\	X			\sqcup	\perp				
PEB-241-5.0-5.5-081523	8/15/23	12:10	6	Solid	\prod	X	X				\perp				
PEB-11-5.0-55-081573	8/15/23	12:15	9	Solid	1111	X	X				\perp				
PEB-21-65-7.0-081523	8/15/23	13:20	G	Solid	Ш	X		\sqcup			\perp		\perp		
PES-2K-3.1-3.6-081523	8/15/23	12:45	9	Solid	14	/ X	. 1							i	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Pois	,		D-di-t-di-		S			posal n To C	-		posal By		are reta		d longer than 1 month) ive For Months
Deliverable Requested I, II, III, IV, Other (specify)	son B Unkr	lown	Radiologica	11	S	pecia	Inst	ruction:	/QC Requi	rements	RC ri	seco A	0/00	ICHIN	an. Com
Empty Kit Relinquished by		Date:			Time		-	1			Method	of Shipment	y run	90	In. com
Relinquished by	Date/Time			Company			Z d	by				1	1e;	_	Company
Report 18/16/23 11.			40	Lange Gompany			elved !	by	w			Date		3	1140 Luzo Fires
Henell	Bate/fime	. 14	.40	E OF	1.45		11	1				Detail	_	_	
Reimquistred by	UBIO/TURE	~		Company		Rec	7	all	UN C	MI	18	871	1/2	3	3 1440 62151
Custody Seals Intact. Custody Seal No.:						Cod	oler Te	mperatu	e C and O	ther Rema	1/	-1-)	N11/1026 111

D

Δ Yes Δ No

Eurofins Lancaster Laboratories Environme

2425 New Holland Pike

Lancaster, PA 17601 Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins

Environment Testing

	Sampler	II at	b PM:			Can	rier Tracking No(s)		COC No:
Client Information	Sampler: Samantha	Chubb Ba	adman, Va	anessa		Call	(1444119 140/3)		410-95296-27048 2
Client Contact: Samentha Chubb Adam Goldberg	Phone: 215-845 - 8	9611E	Mail:	4			te of Origin;		Page: Page 2 of 2
Company	213-843	PWSID	anessa.Ba	аатап@е	et.eurofinsus.co	m	<u>PA</u>		Job #:
Langan Engineering & Environmental Srvcs					Analys	is Reque	sted		
Address 1818 Market St. Suite 3300	Due Date Requested:	TAT							Preservation Codes:
City:	TAT Requested (days):	171	- 1 100						A - HCL N - None
Philadelphia	3 Day 7	TAT	1 20						C - Zn Acetate U - AsNaO2
State, Zip. PA, 19103-3638	Compliance Project: A Yes		1 80						D - Nitric Acid E - NaHSO4 Q - Na2SO3 R - Na2S2O3
Phone	PO#.		3 8						G - Amethor S - H2SO4
215-845-8900 Email:	Purchase Order Requeste	ed	9						H - Ascorbic Acid I - Ice T - TSP Dodecahydrate U - Acetone
SChubb@Langan.com; AGoldberg@langan.com	1 00 #.		10 0					ya .	J - DI Water V - MCAA
Project Name:	Project #:		(Yes or	e e				ine	K - EDTA Y - Trizma L - EDA Z - other (specify)
HILCO/PES	41016272 SSOW#:		Ple (Yes	omic loist	Dibromide			onts	Other:
Site Philadelphia, PA			Sam	Dib.	Dig			jo	
		Sample Matrix	ered Sam	dene Perc	Ethylene	1		Number	
		Type (Wewater,	EE	Eth,	£	++		I S	
	Sample	G=grab) BT-Tissue, A-	Field Fill	8011 - Eth Moisture -	- 1108			Total	
Sample Identification	Sample Date Time	Preservation Code	- K /K /	N N	A	(60 AER 420			Special Instructions/Note:
	2)15/02		7 7						
PES-2L-3.1-3.6-081523	8 15 23 11:55	G Solid	NN	XX				- 69	
PES-2M 1.0-1.5-081523	8/15/23 11:50) 6 Solid	NN	$X \mid X$				100	
PES 2N = 0.5-1-0-081523	× 115 12.3 12.55	Solid	NN						HOLD
			NN						
PES-20-6.5-1.0-081523	8 15 23 13 3							100	HOLD
DUP-1-081523	8/15/23 -	G Solid		XX				100	
FB-1-081523	8/15/23 7:48	FB Waste	NIN		$ X \mid I$				
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								100	
			\bot					100	
			-11						
							+ + + +	100	
Control to and Identification									and languages and manages
Rossible Hazard Identification Non-Hazard Flammable Skin Irritant Pois	an R 🗆 , tataaaa 🗆	3 Radialasical	Sai	_			e ssed if sample oosal By Lab	s are retain	ned longer than 1 month)
Deliverable Requested I, II, III, IV, Other (specify)	SUI B UNKNOWN	radiological	Sn		n To Client				
					75.20.10				ngan.com
Empty Kit Relinquished by	Date		Time:	-			Method of Shipme		
Relinquished by Blanch LL-M	Date/Time: 8 1 4 / 23 11	1:40 Company	200	Received	enel	e	Daje/	16.23	1140 FULLFILLS
Relinquished by	Date/Time:	Company		Received			Date/		Company
Hurell		40 EULE	- ME			_			
Relinquished by:	Date/Time:	Company		Raceyer	ON III A	CARAN.	Date/	Time.	12 (111) Company
Custody Seals Intact: Custody Seal No.:					mperature(s) C and	Other Remark	// - \(\)	סוענו	3 INAU FUE
Δ Yes Δ No					U		12	alle	0.5 101 0. <

Login Sample Receipt Checklist

Client: Langan Engineering & Environmental Srvcs

Job Number: 410-139186-1

Login Number: 139186 List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

WV)?

Creator: Kanagy, Nicholas

Quarties	Anouron	Comment
Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable, where thermal pres is required (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from	N/A	

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1 University Square Drive Princeton, NJ 08540 T: 609.282.8000 Mailing Address: 1 University Square Drive Princeton, NJ 08540

To: Adam Goldberg, Langan Project Scientist

From: Joe Conboy, Langan Senior Staff Chemist

Date: July 31, 2023

Re: Data Usability Assessment

For PESRM EP Consulting Additional Services

July 2023 Soil Samples

Langan Project No.: 220181805

This memorandum presents the findings of an analytical data validation from the analysis of soil samples collected in July 2023 by Langan Engineering and Environmental Services at PESRM EP Consulting Additional Services. The samples were analyzed by Alpha Analytical Laboratories, Inc. (NYSDOH NELAP registration # 11148) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals by the methods specified below.

- VOCs by SW-846 Method 8260D
- SVOCs by SW-846 Method 8270E
- Metals by SW-846 Method 6010D

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

VALIDATION OVERVIEW

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020)
- USEPA Contract Laboratory Program "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

Data Usability Assessment For PESRM EP Consulting Additional Services July 2023 Soil Samples Langan Project No.: 220181805

July 31, 2023 Page 2 of 6

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	ТВ	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. SDG L2340632 underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- **R** The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- **J** The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- **UJ** The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- **U** The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- **NJ** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified and listed in Table 2 (attached).



Data Usability Assessment
For PESRM EP Consulting Additional Services
July 2023 Soil Samples
Langan Project No.: 220181805
July 31, 2023 Page 3 of 6

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by SW-846 Method 8260D

L2340632

The sample PES-M_1.0-1.5_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (154%). The associated results are qualified as J because of potential high bias.

The sample PES-G_1.7-2.2_071423 (Dilution) exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (148%). The associated results are qualified as J because of potential high bias.

The sample PEB-D_4.5-5.0_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (142%). The associated results are qualified as J because of potential high bias.

The sample PEB-H_4.5-5.0_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (133%). The associated results are qualified as J because of potential high bias.

The sample PEB-I_4.5-5.0_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (134%). The associated results are qualified as J because of potential high bias.

The sample PEB-C_4.5-5.0_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (138%). The associated results are qualified as J because of potential high bias.



Data Usability Assessment For PESRM EP Consulting Additional Services July 2023 Soil Samples Langan Project No.: 220181805 July 31, 2023 Page 4 of 6

The sample PEB-B_4.5-5.0_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (323%). The associated results are qualified as J because of potential high bias.

The sample PEB-J_6.0-6.5_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (276%). The associated results are qualified as J because of potential high bias.

The sample PES-K_3.1-3.6_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (166%). The associated results are qualified as J because of potential high bias.

The sample PES-L_3.1-3.6_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (185%). The associated results are qualified as J because of potential high bias.

The sample PES-A_4.2-4.7_071423 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (143%). The associated results are qualified as J because of potential high bias.

The sample PES-E_5.2-5.7_071423 exhibited percent recoveries above the UCL for the surrogates 4-bromofluorobenzene (384%) and toluene-d8 (529%). The associated results are qualified as J because of potential high bias.

The sample DUP-1 exhibited a percent recovery above the UCL for the surrogate 4-bromofluorobenzene (151%). The associated results are qualified as J because of potential high bias.

Metals by SW-846 Method 6010D

L2340632

The laboratory duplicate and parent sample (PES-M_1.0-1.5_071423) exhibited a RPD above the control limit for total lead (65%). The associated results are qualified as J because of potential indeterminate bias.



Data Usability Assessment For PESRM EP Consulting Additional Services July 2023 Soil Samples Langan Project No.: 220181805 July 31, 2023 Page 5 of 6

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

SVOCs by SW-846 Method 8270E

L2340632

The sample PES-G_1.7-2.2_071423 exhibited a percent recovery above the UCL for the surrogate nitrobenzene-d5 (155 %). No more than one surrogate from a single fraction recovered outside of the control limits. No qualification is necessary.

FIELD DUPLICATES:

One field duplicate and parent sample pair was collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than ±2X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 50% for soil. The following field duplicate and parent sample pair was compared to the precision criteria:

DUP-1 and PEB-D_4.5-5.0_071423

The field duplicate and parent sample (DUP-1 and PEB-D_4.5-5.0_071423) exhibited RPDs above the control limit for 1,2,4-trimethylbenzene (73.7%), ethylbenzene (104.5%), isopropylbenzene (105.9%), total xylenes (95.3%), p/m-xylene (99.2%), and phenanthrene (127.5%). The associated results are qualified as J because of potential indeterminate bias.

The field duplicate and parent sample (DUP-1 and PEB-D_4.5-5.0_071423) exhibited absolute differences above the RL for 1,3,5-trimethylbenzene (0.48 mg/kg), benzene (0.218 mg/kg), naphthalene (0.81 mg/kg), o-xylene (0.19 mg/kg), anthracene (0.322 mg/kg), benzo(a)anthracene (0.264 mg/kg), chrysene (0.361 mg/kg), fluorene (1.26 mg/kg), and pyrene (0.566 mg/kg). The associated results are qualified as J because of potential indeterminate bias.



Data Usability Assessment For PESRM EP Consulting Additional Services July 2023 Soil Samples Langan Project No.: 220181805 July 31, 2023 Page 6 of 6

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:

Joe Conboy

Senior Staff Chemist

Table 1: Sample Summary

SDG	Lab Sample ID	Client Sample ID	Sample Date	Validation Level	Analytical Parameters
L2340632	L2340632-01	FIELD BLANK	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-02	PES-M_1.0-1.5_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-03	PES-G_1.7-2.2_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-04	PEB-D_4.5-5.0_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-05	PEB-H_4.5-5.0_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-06	PEB-I_4.5-5.0_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-07	PEB-C_4.5-5.0_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-08	PEB-B_4.5-5.0_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-09	PEB-F_4.5-5.0_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-10	PEB-J_6.0-6.5_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-11	PES-K_3.1-3.6_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-12	PES-L_3.1-3.6_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-13	PES-A_4.2-4.7_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-14	PES-E_5.2-5.7_071423	7/14/2023	Tier 1	VOCs, SVOCs, and Metals
L2340632	L2340632-15	DUP-1	7/14/2023	Tier 1	VOCs, SVOCs, and Metals

Table 2: Validator-Applied Qualification

Client Sample ID	Analysis	CAS#	Analyte	Validator Qualifier
PES-M_1.0-1.5_071423	SW6010D	7439-92-1	Lead, Total	J
PES-M_1.0-1.5_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PES-M_1.0-1.5_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PES-M_1.0-1.5_071423	SW8260D	71-43-2	Benzene	J
PES-M_1.0-1.5_071423	SW8260D	100-41-4	Ethylbenzene	J
PES-M_1.0-1.5_071423	SW8260D	98-82-8	Isopropylbenzene	J
PES-M_1.0-1.5_071423	SW8260D	91-20-3	Naphthalene	J
PES-M_1.0-1.5_071423	SW8260D	108-88-3	Toluene	J
PES-M_1.0-1.5_071423	SW8260D	1330-20-7	Xylenes, Total	J
PES-M_1.0-1.5_071423	SW8260D	95-47-6	o-Xylene	J
PES-M_1.0-1.5_071423	SW8260D	179601-23-1	p/m-Xylene	J
PES-G_1.7-2.2_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PES-G_1.7-2.2_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PES-G_1.7-2.2_071423	SW8260D	71-43-2	Benzene	J
PES-G_1.7-2.2_071423	SW8260D	100-41-4	Ethylbenzene	J
PES-G_1.7-2.2_071423	SW8260D	98-82-8	Isopropylbenzene	J
PES-G_1.7-2.2_071423	SW8260D	91-20-3	Naphthalene	J
PES-G_1.7-2.2_071423	SW8260D	108-88-3	Toluene	J
PES-G_1.7-2.2_071423	SW8260D	1330-20-7	Xylenes, Total	J
PES-G_1.7-2.2_071423	SW8260D	95-47-6	o-Xylene	J
PES-G_1.7-2.2_071423	SW8260D	179601-23-1	p/m-Xylene	J
PEB-D_4.5-5.0_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PEB-D_4.5-5.0_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PEB-D_4.5-5.0_071423	SW8260D	71-43-2	Benzene	J
PEB-D_4.5-5.0_071423	SW8260D	100-41-4	Ethylbenzene	J
PEB-D_4.5-5.0_071423	SW8260D	98-82-8	Isopropylbenzene	J
PEB-D_4.5-5.0_071423	SW8260D	91-20-3	Naphthalene	J
PEB-D_4.5-5.0_071423	SW8260D	108-88-3	Toluene	J
PEB-D_4.5-5.0_071423	SW8260D	1330-20-7	Xylenes, Total	J
PEB-D_4.5-5.0_071423	SW8260D	95-47-6	o-Xylene	J
PEB-D_4.5-5.0_071423	SW8260D	179601-23-1	p/m-Xylene	J
PEB-D_4.5-5.0_071423	SW8270E	120-12-7	Anthracene	J
PEB-D_4.5-5.0_071423	SW8270E	56-55-3	Benzo(a)anthracene	J
PEB-D_4.5-5.0_071423	SW8270E	218-01-9	Chrysene	J
PEB-D_4.5-5.0_071423	SW8270E	86-73-7	Fluorene	J
PEB-D_4.5-5.0_071423	SW8270E	85-01-8	Phenanthrene	J
PEB-D_4.5-5.0_071423	SW8270E	129-00-0	Pyrene	J
PEB-H_4.5-5.0_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PEB-H_4.5-5.0_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PEB-H_4.5-5.0_071423	SW8260D	71-43-2	Benzene	J
PEB-H_4.5-5.0_071423	SW8260D	100-41-4	Ethylbenzene	J
PEB-H_4.5-5.0_071423	SW8260D	98-82-8	Isopropylbenzene	J
PEB-H_4.5-5.0_071423	SW8260D	91-20-3	Naphthalene	J
PEB-H_4.5-5.0_071423	SW8260D	108-88-3	Toluene	J

Table 2: Validator-Applied Qualification

Client Sample ID	Analysis	CAS#	Analyte	Validator Qualifier
PEB-H_4.5-5.0_071423	SW8260D	1330-20-7	Xylenes, Total	J
PEB-H_4.5-5.0_071423	SW8260D	95-47-6	o-Xylene	J
PEB-H_4.5-5.0_071423	SW8260D	179601-23-1	p/m-Xylene	J
PEB-I_4.5-5.0_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PEB-I_4.5-5.0_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PEB-I_4.5-5.0_071423	SW8260D	71-43-2	Benzene	J
PEB-I_4.5-5.0_071423	SW8260D	100-41-4	Ethylbenzene	J
PEB-I_4.5-5.0_071423	SW8260D	98-82-8	Isopropylbenzene	J
PEB-I_4.5-5.0_071423	SW8260D	91-20-3	Naphthalene	J
PEB-I_4.5-5.0_071423	SW8260D	108-88-3	Toluene	J
PEB-l_4.5-5.0_071423	SW8260D	1330-20-7	Xylenes, Total	J
PEB-I_4.5-5.0_071423	SW8260D	95-47-6	o-Xylene	J
PEB-I_4.5-5.0_071423	SW8260D	179601-23-1	p/m-Xylene	J
PEB-C_4.5-5.0_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PEB-C_4.5-5.0_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PEB-C_4.5-5.0_071423	SW8260D	71-43-2	Benzene	J
PEB-C_4.5-5.0_071423	SW8260D	100-41-4	Ethylbenzene	J
PEB-C_4.5-5.0_071423	SW8260D	98-82-8	Isopropylbenzene	J
PEB-C_4.5-5.0_071423	SW8260D	91-20-3	Naphthalene	J
PEB-C_4.5-5.0_071423	SW8260D	108-88-3	Toluene	J
PEB-C_4.5-5.0_071423	SW8260D	1330-20-7	Xylenes, Total	J
PEB-C_4.5-5.0_071423	SW8260D	95-47-6	o-Xylene	J
PEB-C_4.5-5.0_071423	SW8260D	179601-23-1	p/m-Xylene	J
PEB-B_4.5-5.0_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PEB-B_4.5-5.0_071423	SW8260D	1634-04-4	Methyl tert butyl ether	J
PEB-J_6.0-6.5_071423	SW8260D	1634-04-4	Methyl tert butyl ether	J
PES-K_3.1-3.6_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PES-K_3.1-3.6_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PES-K_3.1-3.6_071423	SW8260D	100-41-4	Ethylbenzene	J
PES-K_3.1-3.6_071423	SW8260D	98-82-8	Isopropylbenzene	J
PES-K_3.1-3.6_071423	SW8260D	91-20-3	Naphthalene	J
PES-K_3.1-3.6_071423	SW8260D	108-88-3	Toluene	J
PES-K_3.1-3.6_071423	SW8260D	1330-20-7	Xylenes, Total	J
PES-K_3.1-3.6_071423	SW8260D	95-47-6	o-Xylene	J
PES-K_3.1-3.6_071423	SW8260D	179601-23-1	p/m-Xylene	J
PES-L_3.1-3.6_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
PES-L_3.1-3.6_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PES-L_3.1-3.6_071423	SW8260D	100-41-4	Ethylbenzene	J
PES-L_3.1-3.6_071423	SW8260D	98-82-8	Isopropylbenzene	J
PES-L_3.1-3.6_071423	SW8260D	91-20-3	Naphthalene	J
PES-L_3.1-3.6_071423	SW8260D	1330-20-7	Xylenes, Total	J
PES-L_3.1-3.6_071423	SW8260D	95-47-6	o-Xylene	J
PES-L_3.1-3.6_071423	SW8260D	179601-23-1	p/m-Xylene	J
PES-A_4.2-4.7_071423	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J

Table 2: Validator-Applied Qualification

Client Sample ID	Analysis	CAS#	Analyte	Validator Qualifier
PES-A_4.2-4.7_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PES-A_4.2-4.7_071423	SW8260D	71-43-2	Benzene	J
PES-A_4.2-4.7_071423	SW8260D	100-41-4	Ethylbenzene	J
PES-A_4.2-4.7_071423	SW8260D	98-82-8	Isopropylbenzene	J
PES-A_4.2-4.7_071423	SW8260D	91-20-3	Naphthalene	J
PES-A_4.2-4.7_071423	SW8260D	108-88-3	Toluene	J
PES-A_4.2-4.7_071423	SW8260D	1330-20-7	Xylenes, Total	J
PES-A_4.2-4.7_071423	SW8260D	95-47-6	o-Xylene	J
PES-A_4.2-4.7_071423	SW8260D	179601-23-1	p/m-Xylene	J
PES-E_5.2-5.7_071423	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
PES-E_5.2-5.7_071423	SW8260D	108-88-3	Toluene	J
PES-E_5.2-5.7_071423	SW8260D	1330-20-7	Xylenes, Total	J
PES-E_5.2-5.7_071423	SW8260D	95-47-6	o-Xylene	J
PES-E_5.2-5.7_071423	SW8260D	179601-23-1	p/m-Xylene	J
DUP-1	SW8260D	95-63-6	1,2,4-Trimethylbenzene	J
DUP-1	SW8260D	108-67-8	1,3,5-Trimethylbenzene	J
DUP-1	SW8260D	71-43-2	Benzene	J
DUP-1	SW8260D	100-41-4	Ethylbenzene	J
DUP-1	SW8260D	98-82-8	Isopropylbenzene	J
DUP-1	SW8260D	91-20-3	Naphthalene	J
DUP-1	SW8260D	108-88-3	Toluene	J
DUP-1	SW8260D	1330-20-7	Xylenes, Total	J
DUP-1	SW8260D	95-47-6	o-Xylene	J
DUP-1	SW8260D	179601-23-1	p/m-Xylene	J
DUP-1	SW8270E	120-12-7	Anthracene	J
DUP-1	SW8270E	56-55-3	Benzo(a)anthracene	J
DUP-1	SW8270E	218-01-9	Chrysene	J
DUP-1	SW8270E	86-73-7	Fluorene	J
DUP-1	SW8270E	85-01-8	Phenanthrene	J
DUP-1	SW8270E	129-00-0	Pyrene	J



1 University Square Drive Princeton, NJ 08540 T: 609.282.8000 Mailing Address: 1 University Square Drive Princeton, NJ 08540

To: Adam Goldberg, Langan Senior Project Scientist

From: Joe Conboy, Langan Senior Staff Chemist

Date: August 25, 2023

Re: Data Usability Assessment

For Philadelphia Energy Solutions, Philadelphia, PA

August 2023 Soil Samples Langan Project No.: 220181806

This memorandum presents the findings of an analytical data validation from the analysis of soil samples collected in August 2023 by Langan Engineering and Environmental Services at the Philadelphia Energy Solutions site located in Philadelphia, Pennsylvania. The samples were analyzed by Eurofins Lancaster Laboratories Environment Testing, LLC (HSCA registration #019-006 (PA cert)) for volatile organic compounds (VOCs) using the analytical methods specified below.

VOCs by SW-846 Method 8011

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

VALIDATION OVERVIEW

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020)
- USEPA Contract Laboratory Program "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

Data Usability Assessment For Philadelphia Energy Solutions, Philadelphia, PA August 2023 Soil Samples Langan Project No.: 220181806 August 25, 2023 Page 2 of 4

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. The SDG 410-139186-1 underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- **R** The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- **J** The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- **UJ** The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- **U** The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- **NJ** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items subject to review. Data that is qualified as "R" are not sufficiently valid and technically supportable to be used for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified and listed in Table 2 (attached).



Data Usability Assessment For Philadelphia Energy Solutions, Philadelphia, PA August 2023 Soil Samples Langan Project No.: 220181806

August 25, 2023 Page 3 of 4

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of

results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate

qualification, but do not result in unusable data. No minor deficiencies were identified.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not

necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8011

410-139186-1

The sample PEB-2D_5.0-5.5_081523 exhibited a percent recovery above the UCL for the

surrogate 1,1,2,2-tetrachloroethane (147%). The associated results are non-detect. No

qualification is necessary.

The sample PEB-2I_5.0-5.5_081523 exhibited a percent recovery above the UCL for the surrogate

1,1,2,2-tetrachloroethane (148%). The associated results are non-detect. No qualification is

necessary.

FIELD DUPLICATE:

One field duplicate and parent sample pair was collected and analyzed for all parameters. For

results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less

than ±2X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the

RPD is less than or equal to 50% for soil. The following field duplicate and parent sample pair

was compared to and met the precision criteria:

• SBDUP01_041519 and SB06_0-2

LANGAN

Data Usability Assessment For Philadelphia Energy Solutions, Philadelphia, PA August 2023 Soil Samples Langan Project No.: 220181806 August 25, 2023 Page 4 of 4

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:

Joe Conboy

Senior Staff Chemist

Data Usability Assessment For Philadelphia Energy Solutions, Philadelphia, PA August 2023 Soil Samples

Table 1: Sample Summary

SDG	Lab Sample ID	Client Sample ID	Sample Date	Validation Level	Analytical Parameters
410-139186-1	410-139186-14	DUP-1_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-15	FB-1_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-2	PEB-2B_5.0-5.5_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-3	PEB-2C_5.0-5.5_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-4	PEB-2D_5.0-5.5_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-6	PEB-2F_5.0-5.5_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-8	PEB-2H_5.0-5.5_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-9	PEB-2I_5.0-5.5_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-10	PEB-2J_6.5-7.0_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-1	PES-2A_4.2-4.7_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-5	PES-2E_5.2-5.7_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-7	PES-2G_1.7-2.2_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-11	PES-2K_3.1-3.6_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-12	PES-2L_3.1-3.6_081523	8/15/2023	Tier 1	VOCs
410-139186-1	410-139186-13	PES-2M_1.0-1.5_081523	8/15/2023	Tier 1	VOCs

Data Usability Assessment For Philadelphia Energy Solutions, Philadelphia, PA

August 2023 Soil Samples
Table 2: Validator-Applied Qualification

Client Sample ID	Analysis	CAS#	Analyte	Validator Qualifier
		No qualificati	ons required.	

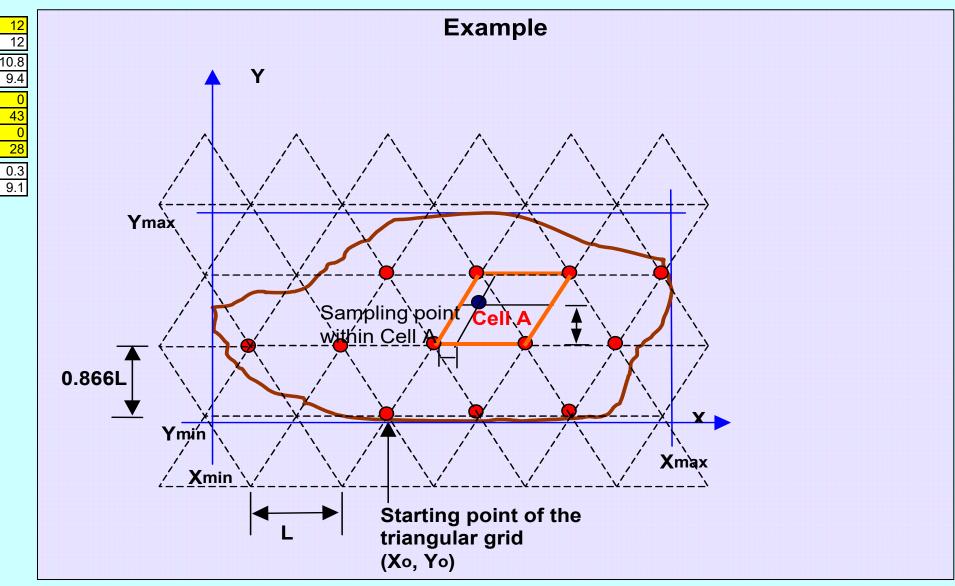
Systematic Random Sampling Workbook

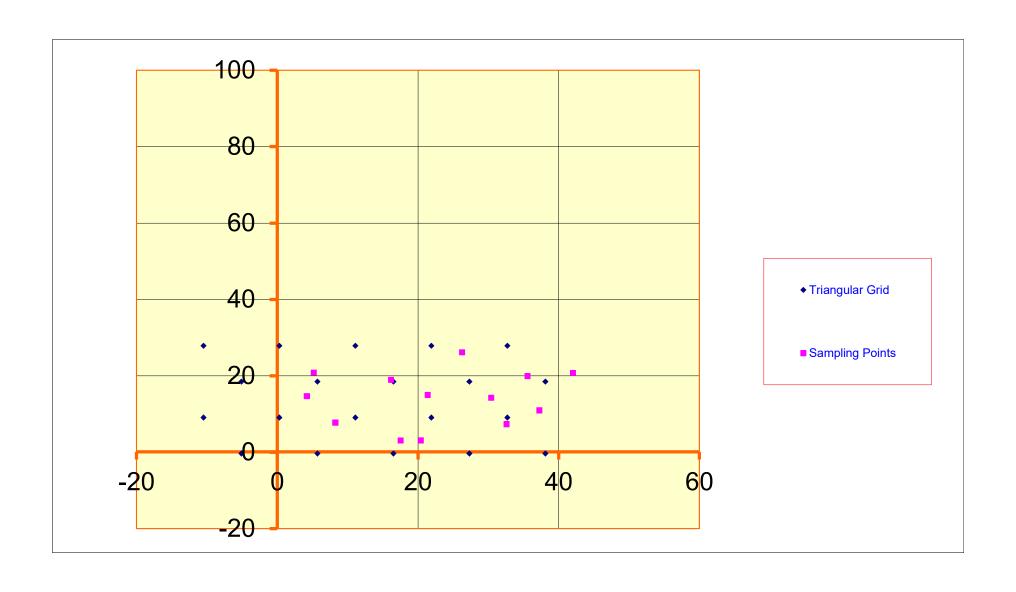
Pennsylvania Department of Environmental Protection Land Recycling Program

Please forward comments or suggestions to Frank Nemec at fnemec@pa.gov

Systematic Random Sampling Workbook

	1204	Area of Contamination (Sq. feet.):
- 0	0	Depth Zone (feet.):
	110.22	Volume of Contaminated Soil (Cubic Yards):
	_	Number of Soil Samples: (If you are applying
		75%/10X or 75%/2X rule, the spreadsheet
		will determine the minimum number of samples
		for you. Otherwise, please specify the number
		of samples here. Limitations: The maximum
		number of samples per row is ten. The
	12	maximum number of rows is ten.=====>)
	12	Number of Soil Samples:
	10.8	L= Cell Spacing (feet):
	9.4	0.866*L(feet):
	0	Xmin (feet):
	43	Xmax (feet):
	0	Ymin (feet):
	28	Ymax (feet):
	0.3	Xo (feet):
	9.1	Yo (feet):





Triangular Grid Node Coordinate Pairs

	0th Row (Xi, Yi)	1st Row (Xi, Yi)	2nd Row (Xi, Yi)		3rd Row (Xi, Yi)		4th Row (Xi, Yi)		5th Row (Xi, Yi)	6th Row (Xi, Yi)	T	7th Row (Xi, Yi)	8th Row (Xi, Yi)		9th Row (Xi, Yi)		10th Row (Xi, Yi)
Starting Point>	-10.5 9.1 0.3 9.1 11.1 9.1 21.9 9.1 32.7 9.1	-5.1 18.5 5.7 18.5 16.5 18.5 27.3 18.5 38.1 18.5	-10.5 27.9 0.3 27.9 11.1 27.9 21.9 27.9 32.7 27.9														
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		-1st Row (Xi, Yi)	-2nd Row (Xi, Yi)		-3rd Row (Xi, Yi)		-4th Row (Xi, Yi)		-5th Row (Xi, Yi)	-6th Row (Xi, Yi)		-7th Row (Xi, Yi)	-8th Row (Xi, Yi)		-9th Row (Xi, Yi)		-10th Row (Xi, Yi)

Coordinates of 3-D Systematic Random Sampling Points Note: Sampling points that are not within the area of contamination sh

: Sampling poin	its that a	are not with	in the area of	contaminat	ion shoul	ld be disc	carded. You w	vill need to generate	another group	of data sets if the r	umber of valid data	a sets in a gro	oup is less than th	e minimum num	ber of samples of	erwise requir	red.										
	Oth I	Row Zi			1st Row Yi			Znd Row Xi, Yi		Xi, Yi	۸V		4th Row Yi Zi		Xi, Yi			Xi, Yi		Xi, Yi			8th Row Yi Zi		9th Row Xi, Yi		Xi, Yi Zi
X	і, Ү	ri Zi		Xi,	Yi	Zi		Xi, Yi	Zi	Xi, Yi	Zi	Xi,	Yi Zi		Xi, Yi	Zi		Xi, Yi	Zi	Xi, Yi	Zi	Xi,	Yi Zi		Xi, Yi	Zi	Xi, Yi Zi
				5.2	20.9	0.0																					
	4.2	14.7 0		16.2	19.0	0.0																					
	21.4	15.0 0		26.3	26.2	0.0																					
	21.4 30.4 37.2	14.3 0 11.0 0		35.6	20.9 19.0 26.2 20.0 20.8	0.0																					
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17b. Alternate Facility (or Gen	erator)			Manifest Reference	e Number:	U.S. EPA ID	Number	
Facility's Phone: 17c. Signature of Alternate Fac	cility (or Generator)						100	Month Day Year
18. Designated Facility Owner	or Operator: Certification of receipt of	of materials covered by the	manifest except	as noted in Item 17a		SME STEEL	917	
Printed Typed Name	0.000		Sign	nature				Month Day Year

MARK

0001274 HIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor MEMORANDUM a cop, or duplicate, covering the property named herein, and is intended solely for filling or record. CARRIER NO DATE 5-1-2024 SCAC CARRIER **FROM** TO SHIPPER Separation and Recovery Systems, LLC Philadelphia Energy Solutions Refining & CONSIGNE Marketing, LLC 2 Paradise Road STREET STREET 3144 Passyunk Ave. West Deptford NJ 03086 Philadelphia, PA 19153 STATE 856-840 19 STATE ORIGIN DESTINATION VEHICLE NUMBER U.S. DOT Hazmat Reg. No. ROUTE 052221600029 D 4149 **Total Quantity** Weight Number and Type Class or (subject to correction) HM **Description of Articles** (mass, volume of Packages Rate or activity) 1 TT X RQ, UN1993, Flammable Liquids, N.O.S., 3, PG II G 3 (Gasoline) 5000 Gal CESI Job# KSWANN Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other shipment without payment of freight and all other Remit COD to: COD FEE: COD AMT: Address: Prepaid \$ State: N/A Collect DVA NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the **TOTAL CHARGES:** N/A FREIGHT CHARGES: agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Prepaid Collect RECEIVED, subject to individually determined rates or contracts that have been n agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, class to the shipper, on request, and all applicable state and lederal re above which said company (the word company being understood deliver to another carrier on the route to said destination. It is muti-NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B). This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER: Philadelphia Energy Solutions Refining & Marketing LLC Lacy's Express, Inc. SHIPPER: CARRIER: PER: PER: -1-24 05 01 DATE: **EMERGENCY RESPONSE** NAME OR CONTRACT NUMBER 302-540-0283 TELEPHONE NUMBER: OR OTHER UNIQUE IDENTIFIER:

12277 (Rev. 3/17)

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Driver Name:	Firth, John	- I cours
Tractor:	155	
Trailer:	4149	express inc.

P.O. Box 130 Pedricktown, NJ 08067 (856) 299-2569

TO	CONS	IGNEE - DESTINATION	F	ROM SHIP	PER - ORIGIN						
Namai	SEPAR LLC	ATION AND RECOVERY SYSTEMS	Name: P	Name: PES							
Address:		DISE RD	Address: L	Address: LANIER AVE							
City/State/Zip:	WEST	DEPTFORD, NJ 08086	City/State/Zip: PHILADELPHIA, PA 19092								
Number of Shipping Units	НМ	Kind of Packaging, Descriptio Special Marks and Exce	ptions	WEIGHT (subject to correction)	RATE	CHARGES (for Carrier use only)					
001	X	SEE BILL OF LADING FOR PROPER DISCRIPTION OF MATERIAL RA UMASS FLORMAGE CHEND IN (GASCLUE) 3 FEET ERG 128 5000 GAL	Gross vvt								
S	pecial II	nstructions & Explain Delay			Bill To:						
EMERGE	NEY	ZESPONEE PHONE IT	CAPITOL EN	VIRONMEN	ITAL PO No						
STATE OF THE PARTY	THE PERSON NAMED IN	540.0283 (KIM)	300 CREEK NEWARK, DI	E 19702	Phone						
P/U Date 05 / 05 PU Time In OC: 00	Out 09	Del. Time In Out	Consignee: SEF	Consignee: SEPARATION AND RECOVERY SYSTEMS LLC							
	he above	named materials are properly classified, described, plations of the Department of Transportation. Per	packaged, marked and la	beled and are in	proper condition for	transportation					
Shipper: PES			Carrier: LAC	Y'S EXPRE							
Per:		Date: (25/01/2	4 Il Cosmy	1-001	STATE OF STREET	01 13024					
		FOR HELP IN CHEMICAL EMERGENCIES IN CALL CHEMTREC TOLL FREE			SURE	74					

SSRS_LACY_BOL 4/30/2024 1:45.57 PM

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						RRIER NO		2211
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ddress: ity: DTE: Where the rate is reed or declared valuecifically stated by the CEIVED, subject to individue shipper, on request, and the shipper, on request, and the shipper on the voice to be performed here.	e of the shipper to ually determed all applicate the word come route to	State: Zip: Int on value, shippers are required to state specifically in writing the property. The agreed or declared value of the property is hereby	shipment is to be delivered without recourse on the consishall sign the following statem. The carrier shall not make the same that the same th	f conditions, if this is to the consignee gnor, the consignor ent: ake delivery of this freight and all other with the contents and condition property under the cid route to destinat did route to destinat	COD AM TOTAL CH , classifications and rul n of contents of packa ontract) agrees to carr on and as to each pary	T: ARGES: es that have beer ges unknown), my to delivery at say tra tany time inter	Prepaid Collect Prepaid Prepaid Prepaid Prepaid Prepaid nestablished by the caarked, consigned, and id destination, if on its ested in all or any of sa	CHARGES: Collect rrier and are availab destined as indicate roule, or otherwise did Properly that eve
ddress: ity: ity: ity: ity: ity: ity: ity: ity	e of the shipper to ually determed all applicate word content to under shall on for loss to the about the	State: Zip: Int on value, shippers are required to state specifically in writing the property. The agreed or declared value of the property is hereby to be not exceeding \$ Per mined rates or contracts that have been agreed upon in writing between the carrier able state and federal regulations; the Property described above, in apparent go mpany being understood throughout this contract as meaning any person or corp said destination. It is mutually agreed as to each carrier of all or any of said Proper be subject to all the conditions not prohibited by law, whether printed or written, here is or damage in this shipment may be applicable. See 49 U.S.C. 1470 prove-named materials are properly classified, described transportation according to the applicable regulations of	shipment is to be delivered without recourse on the consishall sign the following statem. The carrier shall not make the same that the same th	I conditions, if this to the consigner gnor, the consignor ent: aske delivery of this freight and all other V/A issignor) therwise to the rate ontents and condition property under the cald route to destinationditions on the balled, and labeled.	COD AM TOTAL CH Classifications and rui of contents of packa contract) agrees to carr on and as to each pan k hereof, which are he	T: ARGES: es that have beer ges unknown), my to delivery at say tra tany time inter	Prepaid Collect Prepaid Prepaid Prepaid Prepaid Prepaid nestablished by the caarked, consigned, and id destination, if on its ested in all or any of sa	CHARGES: Collect rrier and are availab destined as indicate roule, or otherwise did Properly that eve
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STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Driver Name:	Firth, John
Tractor:	155
Tractori	



Shipper's No. 39021

Manifest No. 05/01/2024

Trailer: 4149

P.O. Box 130 Pedricktown, NJ 08067 (856) 299-2569

			(856) 299-2	2569				
TOC	ONSIGNEE -	DESTINATION	S'ATTERNA	是 一	ROM SHIPP	ER - ORIGIN	RANK CO.	
Name: SE		ND RECOVERY S	YSTEMS	Name: P	ES	Black.		
	PARADISE RE			Address: L	ANIER AVE		The same of	
City/State/Zip: W	EST DEPTFO	RD, NJ 08086	C	city/State/Zip: P	y/State/Zip: PHILADELPHIA, PA 19092			
Number of Shipping Units	HM	nd of Packaging, Special Marks	s and Excepti		WEIGHT (subject to correction)	RATE	CHARGES (for Carrier use only)	
001	^ DISCRII	LOF LADING FO PTION OF MATER 1983 FLAMINAB 128 128	RIAL	Gross Wt. Tare Wt. Net Wt.				
Spec	cial Instructio	ns & Explain Dela	ay		В	ill To:		
EMERGEN	cy RES	POLCE PHON	E #	CAPITOL EN	VIRONMEN'	TAL PO No	0.	
7	02. 540.	0283 (Kin	")	300 CREEK	/IEW RD			
	DEATH OF THE	CIENTIA DE LA COMPANION DE LA	Assistant Land	NEWARK, DE				
			Marian William	Contact: IMA	mine the System of	Phone		
P/U Date OS I OI	1)034	Del. Date OS I O	1 2024	Consignee: SEF				
In 1200 C	Dut 12:45	Del. Time In	Out ;					
This is to certify that the according to the applicab	above named mate	rials are properly classifi e Department of Transp	ied, described, pad ortation. Per	ckaged, marked and lat	beled and are in	proper condition for	transportation	
Shipper: PES	THE WAY	WE THE REAL PROPERTY.		Carrier: LAC	Y'S EXPRES	SS, INC.	NO.	
Per:		Date:	01, 2	Y Per: U Ca	reng Lan		01, 2024	
PER LEGIS	FOR HEL	P IN CHEMICAL EMER CALL CHEMTRES		LVING SPILL, LEAK, 300-424-9300 DAY OF		SURE	1	

THIS MEN	MORANDUM is an acknowledgement that a bill of lading has a copy or duplicate, covering the property name	s been issued and is not the Original	ginal Bill of Lading y for filing or reco	, nor SH	IIPPER NO.	0001	210
	overing the property nam	ee derein, and is interiore some			RRIER NO.		
						5-3-	24
CARRIER		1977	SCA		TE		
TO CONSIGNEE STREET DESTINATION	Separation and Recovery Systems, 2 Paradise Road West Deptford NJ 08086 856-848-3719 STATE ZIP	STREET ORIGIN	Philadelph Marketing 3144 Pass	nia Energy S	153 STA	TE :	ZIP
ROUTE			VEHICLE NU	IMBER		Hazmat Reg. 05222160	
Number and Type of Packages	Descriptio	on of Articles		(п	otal Quantity nass, volume, or activity)	Weight (subject to correction)	Class or Rate
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	CAP 24D &CI HE						
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iver to another carrier on the vice to be performed hereund igns.	an applicate state and reterial regulations, the word company being understood throughout this contract as meaning any person route to said destination. It is mutually agreed as to each carrier of all or any of said ser shall be subject to all the conditions not prohibited by law, whether printed or will for loss or damage in this shipment may be applicable. See 49 U.S.C.	ntten, herein contained, including the					
is is to certify that t	the above-named materials are properly classified, des n for transportation according to the applicable regulati	scribed, packaged, mark	ed, and labele of Transportat	ed, and lion PER:			
Philadelphi	a Energy Solutions Refining & Marketin	CARRIER:	L	icy's Expre	1 .	5 37	
R:	2 Mil	PER:	Ken	S-3-2	J.II.	no	
	- VET /	DATE:			-		

		S	ORIGINAL - NOT	L OF LADING	j		
Tractor:			Leg	375	Carrie	r's No3 r's No3	9051
Trailer:		4149	P.O. B Pedricktowr (856) 29	1, NJ 08067		Date: 05	5/03/2024
ТО	CONS	IGNEE - DESTINAT			ROM SHIPP	ER - ORIGIN	
Address: 2	LLC 2 PARA	ATION AND RECOV DISE RD DEPTFORD, NJ 080		Name: F Address: L City/State/Zip: F	ANIER AVE		
Number of Shipping Units	1	Kind of Pack	aging, Description	n of Articles,	WEIGHT (subject to correction)	RATE	CHARGES (for Carrier use only)
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17.1	Pala	UN1993 F NJ S. , 3	Haurine)	Net Wt.	5000	SAU NO	
Sį	pecial I	nstructions & Expl	ain Delav			Bill To:	
			/	CAPITOL EN 300 CREEK NEWARK, D	NVIRONMEN VIEW RD DE 19702		
P/U Date5 /	3_/	Del. Date	Out :	Consignee: SE RECOVERY	PARATION	AND Date	
This is to certify that t according to the appli	he above cable reg	named materials are proper ulations of the Department	erly classified, described of Transportation. Per	, packaged, marked and I	labeled and are i	n proper condition fo	r transportation
Shipper: PES				Carrier: LAG	CY'S EXPRE	SS, INC.	
Per:	į	2	Date:	Per:	1. \ 00	Date:	21 507
1-1.		FOR HELP IN CHEMIC CALL C	CAL EMERGENCIES IN HEMTREC TOLL FREE	IVOLVING SPILL, LEAK 1-800-424-9300 DAY C	, FIRE OR EXP	OSURE	

Revised 1/25/21

GLOBAL JOB NUMBEI	2.		243020034
	1017406	PROFILE NUMBER	
Please Check One: Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909 Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Hagerstown, MD 21740 Ph: 301-791-6220	Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633 Clean Earth of Southeast Pennsylvania 7 Steel Road East Morrisville, PA 19067 Ph: 215-428-1700	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394 ☐ Other
(Type or Print Clearly)		us Material Manifest	
GENERATOR'S NAME & S	SITE ADDRESS:	GROSS WEIGHT:	
Philadelphia Energy Sol	utions Refining and Marketing, L	C Tons Yards	
3144 Passyan	ak Ave.	TARE WEIGHT:	
Philadelphia, P	A 19153	Tons Yards	
GENERATOR'S PHONE:	Joseph Jeray (781) 590-112	NET WEIGHT:	
was delivered for the second	RIAL/SAMPLE ID AND LOCA	Tons Yards	
law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name: Signature:	te as defined by 40 CFR Part 261 of	Title: $V \cdot \sqrt{\frac{1}{2} + \frac{5}{1}}$	hazardous substance as defined
TRANSPORTER	hud ban		
Company: Kevin F			15) 491-0415
- 1 , ()	How Hill Lane, Jamison PA 18929	Truck # and License Plate: SW Haulers Permit #:	DECINAL AND ADDRESS OF THE PARTY OF THE PART
Driver: 100 605	ype or Print Clearly)	Sw Haulers Permit #:	DESW-1717 (applicable state permit#)
	ereby certify that the above named	d material was picked up at the site liste Date and Time: 3-19-2	d above.
DESTINATION			
I hereby certif	fy that the above named material w	vas delivered without incident to the fac	cility noted above
Diag Signature:		Date and Time.	
I hereby	certify that the above named mate	rial has been accepted at the above refe	renced facility.
Authorized Signature:		Date and Time:	•
		SITE	TEM+ CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1:

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Revised 1/29/21

LOBAL JOB NUMBE	R: 1017405	DECELLE NUM	BEK:
	1017400	PROFILE NUM	
Clease Check One: Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909 Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633 Clean Earth of Southeast Pennsylvania 7 Steel Road East Morrisville, PA 19067 Ph: 215-428-1700	Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
	Non-Hazard	ous Material Manifest	
Type or Print Clearly)			
GENERATOR'S NAME &	SITE ADDRESS:	GROSS WEIGHT:	
	autions Refining and Marketing	Tons Yards	
	nk Ave.	TARE WEIGHT:	
	PA 19153	□Tons □Yards	
	PA 19153 Joseph Jeray (781) 590-1	- A	
22. 12. Idilok Billone.	Joseph Jeray (781) 590-1	□Tons □Yards	
Petroleum contamir GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab	ove named material does not con	ENT - Incomplete and/or unsigned	manifests will cause the load to be Part 260.10 or any applicable state
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportatio Name:	ICATION/AUTHORIZED AG	A Ragulated EENT - Incomplete and/or unsigned stain free liquid as defined by 40CFR 1 or any applicable state law, is not a ally and accurately described above, or and federal regulations. Title:	manifests will cause the load to be
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportatio Name: Signature:	ICATION/AUTHORIZED AG ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fun according to all applicable state	A Ragulated EENT - Incomplete and/or unsigned stain free liquid as defined by 40CFR 1 or any applicable state law, is not a ally and accurately described above, or and federal regulations. Title:	manifests will cause the load to be Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportation Name: Gignature: TRANSPORTER	Ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fun according to all applicable state	A Ragulated EENT - Incomplete and/or unsigned stain free liquid as defined by 40CFR 1 or any applicable state law, is not a allly and accurately described above, or and federal regulations. Title: V	Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper
GENERATOR'S CERTIF lelayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportatio Name: Gignature: GRANSPORTER Company: Kevin	Ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fun according to all applicable state.	A Regulated EENT - Incomplete and/or unsigned attain free liquid as defined by 40CFR I or any applicable state law, is not a ally and accurately described above, as and federal regulations. Title: Date and Time: Phone Number:	manifests will cause the load to be Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper
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Fetroleum contamination of the	Ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fun according to all applicable state. Ryder, Inc.	A Regulated EENT - Incomplete and/or unsigned attain free liquid as defined by 40CFR I or any applicable state law, is not a ally and accurately described above, as and federal regulations. Title: Date and Time: Phone Number:	manifests will cause the load to be Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper (215) 491-0415 DESW-1717
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportation Name: GIGHT FRANSPORTER Company: Address: Driver:	Ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fur according to all applicable state. Ryder, Inc. Type or Print Clearly) hereby certify that the above name	A Regulated SENT - Incomplete and/or unsigned attain free liquid as defined by 40CFR 1 or any applicable state law, is not a allly and accurately described above, or any applicable and federal regulations. Title: Date and Time: Phone Number: Truck # and License Plate: SW Haulers Permit #:	manifests will cause the load to be Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper (215) 491-0415 DESW-1717 (applicable state permit#)
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportatio Name: Signature: TRANSPORTER Company: Address: Driver: I Driver Signature:	Ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fur according to all applicable state. Ryder, Inc. Type or Print Clearly) hereby certify that the above name	A Regulated SENT - Incomplete and/or unsigned attain free liquid as defined by 40CFR 1 or any applicable state law, is not a allly and accurately described above, or any applicable and federal regulations. Title: Date and Time: Phone Number: Truck # and License Plate: SW Haulers Permit #:	Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper (215) 491-0415 DESW-1717 (applicable state permit#) e listed above.
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportatio Name: Signature: TRANSPORTER Company: Address: Driver: I Driver Signature:	TCATION/AUTHORIZED AG ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fun according to all applicable state Ryder, Inc. officer Hill Lane, Jamison PA 1832 (Type or Print Clearly) hereby certify that the above name	A Ragulated SENT - Incomplete and/or unsigned stain free liquid as defined by 40CFR 1 or any applicable state law, is not a ally and accurately described above, or any applicable and federal regulations. Title: Date and Time: Phone Number: Truck # and License Plate: SW Haulers Permit #: ned material was picked up at the site. Date and Time:	manifests will cause the load to be Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper (215) 491-0415 DESW-1717 (applicable state permit#) e listed above.
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportatio Name: GENERATOR'S CERTIF delayed and/or rejected. I hereby CFR Part 172 or any condition for transportatio Name: FIGURE 172 FIGURE 172 FIGURE 173 FIGURE 17	related soil - Non DOT, Non RCR CATION/AUTHORIZED AG Ove named material does not comste as defined by 40 CFR Part 26/ Applicable state law, has been furn according to all applicable state Ryder, Inc. Citype or Print Clearly) hereby certify that the above named material	A Regulated SENT - Incomplete and/or unsigned attain free liquid as defined by 40CFR 1 or any applicable state law, is not a ally and accurately described above, as and federal regulations. Title: Date and Time: Phone Number: Truck # and License Plate: SW Haulers Permit #: ned material was picked up at the site Date and Time: Date and Time:	manifests will cause the load to be Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper (215) 491-0415 DESW-1717 (applicable state permit#) e listed above.
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous wa by 49 CFR Part 172 or any condition for transportatio Name: GENERATOR'S CERTIF delayed and/or rejected. I hereby CFR Part 172 or any condition for transportatio Name: FIGURE 172 FIGURE 172 FIGURE 173 FIGURE 17	related soil - Non DOT, Non RCR CATION/AUTHORIZED AG Ove named material does not comste as defined by 40 CFR Part 26/ Applicable state law, has been furn according to all applicable state Ryder, Inc. Citype or Print Clearly) hereby certify that the above named material	A Regulated SENT - Incomplete and/or unsigned attain free liquid as defined by 40CFR 1 or any applicable state law, is not a ally and accurately described above, as and federal regulations. Title: Date and Time: Phone Number: Truck # and License Plate: SW Haulers Permit #: ned material was picked up at the site Date and Time: Date and Time:	manifests will cause the load to be Part 260.10 or any applicable state DOT hazardous substance as defined classified, packaged and is in proper (215) 491-0415 DESW-1717 (applicable state permit#) e listed above.

Revised 1/29/21

Manifest # 2504122

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

GLODAL TODAY					243020034
GLOBAL JOB NUMBER	1017405		PROFILE	NUMBER:	
Please Check One:					
Clean Forth as a	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyle New C	Earth of New Castle is Lane astle, DE 19720 2-427-6633		☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Steel Morrisy	Earth of Southeast Penns Road East ille, PA 19067 -428-1700	sylvania	Other
	Non-Hazardo	ous M	aterial Manife	st	
(Type or Print Clearly)	100 mar i mar o controli.				
GENERATOR'S NAME & S	ITE ADDRESS:		GROSS WEIGHT:		
Philedelphia Energy Solu	tions Refining and Marketing.	LLC	☐ Tons ☐ Yards		
	k Ave.		TARE WEIGHT:		
	A 19153		■Tons □ Yards		
	Joseph Jeray (781) 590-11		NET WEIGHT:		
_	Andrew (101) Doubt		☐Tons ☐Yards		
DESCRIPTION OF MATER	RIAL/SAMPLE ID AND LOC	ATION			
Petroleum contamina	ted soil - Non DOT, Non RCRA	A Regula	ted		
delayed and/or rejected. I hereby certify that the above law, is not a hazardous wasted by 49 CFR Part 172 or any a condition for transportation. Name: Signature:	ve named material does not contain as defined by 40 CFR Part 261 applicable state law, has been ful according to all applicable state	ain free or any a lly and a and fede	iquid as defined by 4 pplicable state law, is curately described at ral regulations.	OCFR Part 2 s not a DOT bove, classifi	60.10 or any applicable state
TRANSPORTER	uter bee	DI		124	(5) 491-0415
Company.	yder, Inc.	=4 seem	ne Number:	-	
Addiess.	ow Hill Lane, Jamison PA 18929	= ()	ck # and License Plat	e: •	
Driver: CHALLES	pe or Print Clearly)	_ SW	Haulers Permit #:	-	(applicable state permit#)
1 325	creby certify that the above name	ed mater	ial was picked up at t _ Date and Time:	he site listed	107.7
DESTINATION					
	that the above named material	was deli	vered without incider	nt to the facil	lity noted above.
Driver Signature:	20 4 .4 1 1		_ Date and Time:		
I hereby o	ertify that the above named mat	terial has		above refere	enced facility.
Authorized Signature:			_ Date and Time:		
		SITE			

~~			243020034
GLOBAL JOB NUMBER	1017406	PROFILE NUMBER	R:
Please Check One:			
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	1469 Oak Ridge Place 94 Hagerstown, MD 21740 N	ean Earth of New Castle I Pyles Lane ew Castle, DE 19720 n: 302-427-6633	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue 7 Kearny, NJ 07032 Ph: 973-344-4004 Pi	☐ Other	
_	Non-Hazardous	s Material Manifest	
(Type or Print Clearly)			09:37 am03-19-24 68460
GENERATOR'S NAME & S	ITE ADDRESS:	GROSS WEIGHT:	05101 3000 10 24 00 100
Philedelphia Energy Sol	utions Relining and Marketing, LLC		274 00
3144 Passyun	ık Ave.	mind , 220	27800
Philadolphia, P.	A 19153	Tons Yards	_
GENERATOR'S PHONE: _	Joseph Jeray (781) 590-1125	NET WEIGHT:	20.33
		Tolis Liards	
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCAT	<u>ION</u>	3
Petroleum contamina	ited soil - Non DOT, Non RCRA Re	ogulated	
I hereby certify that the about law, is not a hazardous wast	ve named material does not contain e as defined by 40 CFR Part 261 or a applicable state law, has been fully a according to all applicable state and	federal regulations. Title: V	t 260.10 or any applicable state
TRANSPORTER	. (.		
Marrier El	yder, Inc.	Phone Number:	(215) 491-0415
Company:	Iow Hill Lane, Jemison PA 18929	Truck # and License Plate:#70	
Address.	Company Jameson PA 16928	SW Haulers Permit #:	DESW-1717
Driver:(T	ype or Print Clearly)		(applicable state permit#)
Lhe	ereby certify that the above named r	naterial was picked up at the site lis	ted above.
Driver Signature:	/ // /	Date and Time:	
DESTINATION			
I hereby certif	1 Marsh	Date and Time: Date and Time: Date and Time:	9-24
	- GAAT		

lease Cl.			r	ROFILE	NUMBER	· ·
Clease Check One: Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909 Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220 ☐ Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	94 Py New 0 Ph: 30 Clean 7 Stee Morris	n Earth of New rles Lane Castle, DE 19 02-427-6633 n Earth of Sou el Road East sville, PA 190 15-428-1700	9720 utheast Peni	nsylvania	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394 ☐ Other
Type or Print Clearly)	Non-Hazar	dous N	Material	Manife	est	
GENERATOR'S NAME &	SITE ADDRESS					
Philedelphia France	OTTE ADDRESS:		GROSS V	WEIGHT:		
3444 B	skutions Relining and Marketin	g. LLC	Tons	Yards	1191 44 31	69920
100000	IDK AMA		TARE W	EIGHT:	7 -	1/14 /
GENERATOR'S PLOS	PA 19153		Tons	_		1970
ELONG S PHONE:	PA 19153 Joseph Jeray (781) 590-	4400		∐Yards		
DESCRIPTION	, 101/100/	1125	NEI W	EIGHT:	2	1211
DESCRIPTION OF MATI	ERIAL/SAMPLE ID AND LO	CATTON	ions	Yards		1.24
delayed and/or rejected. I hereby certify that the ab	ICATION/AUTHORIZED Active repaired by 40 CFR Part 20 applicable state law, has been	GENT - I	ncomplete	and/or uns	igned manifo	ests will cause the load to be
delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation. Name: Signature:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state	GENT - I entain free 61 or any fully and a te and fed	ncomplete	state law, is lescribed al ions.	igned manifo OCFR Part 2 s not a DOT bove, classifi	60.10 or any applicable state hazardous substance as defined
delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation. Name: Signature: TRANSPORTER	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state	GENT - I entain free 61 or any fully and a te and fed	Incomplete a liquid as de applicable saccurately deral regulat	state law, is lescribed al ions.	OCFR Part 2 s not a DOT bove, classifi	60.10 or any applicable state hazardous substance as defined
delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation. Name: Signature: TRANSPORTER Company: Kovin Address: Driver:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state. Ryder, Inc.	ontain free 61 or any fully and a te and fed Pho	liquid as de applicable saccurately de leral regulat Title: Date and Tone Number and Lick # and Li	erned by 4 state law, is lescribed all ions.	OCFR Part 2 s not a DOT bove, classifi	60.10 or any applicable state hazardous substance as defined
Address: CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation. TRANSPORTER Company: Kovin Address:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state. Ryder, Inc. Type or Print Clearly	ontain free 61 or any fully and a te and fed Pho SW	liquid as de applicable saccurately deral regulat Title: Date and Tone Number ack # and Li	erned by 4 state law, is lescribed al ions.	OCFR Part 2 s not a DOT bove, classifi	60.10 or any applicable state hazardous substance as defined ied, packaged and is in proper
Address: CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation. TRANSPORTER Company: Kovin Address:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state. Ryder, Inc. Type or Print Clearly	ontain free 61 or any fully and a te and fed Pho SW	liquid as de applicable saccurately deral regulat Title: Date and Tone Number ack # and Li	erned by 4 state law, is lescribed al ions.	OCFR Part 2 s not a DOT bove, classifi	60.10 or any applicable state hazardous substance as defined ied, packaged and is in proper
delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation. Name: Signature: TRANSPORTER Company: Address: Driver: Driver Signature:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state. Ryder, Inc. Type or Print Clearly	ontain free 61 or any fully and a te and fed Pho SW	liquid as de applicable saccurately de aral regulat Title: Date and Tone Number ack # and Lift Haulers Period	erined by 4 state law, is lescribed al ions. V. P. Fime: r: icense Plate ermit #: ked up at ti	OCFR Part 2 s not a DOT bove, classifi	60.10 or any applicable state hazardous substance as defined ied, packaged and is in proper
delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation. Name: Signature: TRANSPORTER Company: Address: Driver: Driver Signature:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state applicable state. Ryder, Inc. Type or Print Clearly) hereby certify that the above name of the property	ontain free 61 or any fully and a te and fed Pho SW med mater	liquid as de applicable s'accurately d'eral regulat Title: Date and Tone Number ack # and Lite Haulers Petrial was pice. Date and	r: icense Plate icermit #: ked up at ti	OCFR Part 2 s not a DOT bove, classifi (21 e:	60.10 or any applicable state hazardous substance as defined ied, packaged and is in proper 5) 491-0415 DESW-1717 [applicable state permit#] above.
delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation. Name: Signature: TRANSPORTER Company: Address: Driver: Driver Signature:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state applicable state. Ryder, Inc. Type or Print Clearly) hereby certify that the above name of the property	ontain free 61 or any fully and a te and fed Pho SW med mater	liquid as de applicable s'accurately d'eral regulat Title: Date and Tone Number ack # and Lite Haulers Petrial was pice. Date and	r: icense Plate icermit #: ked up at ti	OCFR Part 2 s not a DOT bove, classifi (21 e:	60.10 or any applicable state hazardous substance as defined ied, packaged and is in proper 5) 491-0415 DESW-1717 [applicable state permit#] above.
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name: Signature: TRANSPORTER Company: Address: Driver: Driver Signature: I hereby cert Driver Signature:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state applicable state. Ryder, Inc. Type or Print Clearly) hereby certify that the above named material	ontain free 61 or any fully and a te and fed Pho Sw	liquid as de applicable s'accurately d'eral regulat Title: Date and Tone Number and Lick # and Lick	r: icense Plate icense Plate irime: icense Plate irime: cout incider Time: pted at the	OCFR Part 2 s not a DOT bove, classifi (21 e:	60.10 or any applicable state hazardous substance as defined ited, packaged and is in proper 5) 491-0415 DESW-1717 (applicable state permit#) above.
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name: Signature: TRANSPORTER Company: Address: Driver: Driver Signature: I hereby cert Driver Signature:	ove named material does not co ste as defined by 40 CFR Part 20 applicable state law, has been in according to all applicable state applicable state according to all applicable state. Ryder, Inc. Type or Print Clearly) hereby certify that the above named material according to a state of the state of t	ontain free 61 or any fully and a te and fed Pho Sw	liquid as de applicable s'accurately d'eral regulat Title: Date and Tone Number ack # and Liver	r: icense Plate icense Plate irime: icense Plate irime: cout incider Time: pted at the	OCFR Part 2 s not a DOT bove, classifi (21 e:	60.10 or any applicable state hazardous substance as defined ited, packaged and is in proper 5) 491-0415 DESW-1717 (applicable state permit#) above.

GLOBAL JOB NUMBER	1017405		PROFILE NU	MBER:	243020034
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyl New C	Earth of New Castle es Lane Castle, DE 19720 12-427-6633		Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	Clean 7 Stee	Earth of Southeast Pennsylvel Road East ville, PA 19067 5-428-1700	vania 🗆 🤆	Other
(Type or Print Clearly)	Non-Hazaro	dous N	Material Manifest		
GENERATOR'S NAME &	CITE ADDRESS.		GROSS WEIGHT:	one.	49 am03-19-24 67260
			Tons Yards	0744	43 MINOT12724 01200
	lutions Relining and Marketin		TARE WEIGHT:	7	2460
	nk Ave.		Tons Yards		0
5	A 19153 Joseph Jeray (781) 590-	1125	NET WEIGHT:	10	a 4
			Tons Yards	1	1, 9
delayed and/or rejected. I hereby certify that the abolaw, is not a hazardous was	ove named material does not coste as defined by 40 CFR Part 2 applicable state law, has been according to all applicable sta	ontain free	e liquid as defined by 40C applicable state law, is n accurately described aborderal regulations. Title:	CFR Part 260. ot a DOT haz ve, classified,	10 or any applicable state
TRANSPORTER				2245	104 6445
Company: Kevin	Ryder, Inc.			(215)	
Address: 3883 F	allow Hill Lane, Jamison PA 18		uck # and License Plate:		DESW-1717
Driver: Y CG	Type or Print Clearly)	51	V Haulers Permit #:	(app	licable state permit#)
	hereby certify that the above na	amed mate	erial was picked up at the	site listed abo	ove.
Driver Signature:	1397				
	ify that the above named mater				
				bove reference	ed facility.
Authorized Signature:	y certify that the above manner				

Manifest # 2504118

GLOBAL JOB NUMBER	1017405	PROFILE NUMBER	243020034
Please Check One:	*		
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Hagerstown, MD 21740 New	n Earth of New Castle vles Lane Castle, DE 19720 02-427-6633	Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Clean 7 Ste Morri	n Earth of Southeast Pennsylvania el Road East sville, PA 19067 15-428-1700	Other
(Type or Print Clearly)	Non-Hazardous I	Material Manifest	
GENERATOR'S NAME & S	ITE ADDRESS:	GROSS WEIGHT:	
	dions Refining and Marketing, LLC		10157 2007-19-24 67740
	k Ave.	TARE WEIGHT:	raid mana ex el
The second secon	A 19153	Tons Yards	27800
GENERATOR'S PHONE: _	Joseph Jeray (781) 590-1125	NET WEIGHT:	19.97
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCATIO		
Petroleum contamina	ted soil - Non DOT, Non RCRA Regu	stated	
delayed and/or rejected. I hereby certify that the about law, is not a hazardous waster.	ve named material does not contain free as defined by 40 CFR Part 261 or any applicable state law, has been fully and	e liquid as defined by 40CFR Part	260.10 or any applicable state Γ hazardous substance as defined
condition for transportation	according to all applicable state and fe	deral regulations.	TE OPE PATIONS
Name: CTRAF Signature:	K. 101H		(IF OIF EXILIBITY)
77	/ AM.		
TRANSPORTER	yder, Inc. Pl	none Number:	215) 491-0415
Company.		ruck # and License Plate: 76/	A6.09804
	On the second	W Haulers Permit #:	DESW-1717
Driver:	rpe or Print Clearly)	w Hadiers Fermit #.	(applicable state permit#)
	ereby certify that the above named mat	erial was picked up at the site liste	
Driver Signature:	Task	2 10	
DESTINATION			
I hereby certify	that the above named material was de		cility noted above.
Driver Signature:	V/abC	Date and Time:	
I hereby of Authorized Signature:	ertify that the above named material h	Approximation of the contract	erenced facility.
	4		

SITE

CLOBAL IOD STA				nen.	243020034
GLOBAL JOB NUMBER	R:1017406	_	PROFILE NUM	BEK:	
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	Clean Earth of 94 Pyles Lane New Castle, DI Ph: 302-427-66	E 19720 333	16301 Gar Waldorf, M PH: 240-36	39-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	Clean Earth of 7 Steel Road E Morrisville, PA Ph: 215-428-17	19067	a Other	
<u>t.</u>	Non-Hazard	ous Materi	al Manifest		
(Type or Print Clearly)					
GENERATOR'S NAME & S	SITE ADDRESS:	GROS	S WEIGHT:	04 am03-19-24	70160
Philedelphia Energy So	lutions Refining and Marketing	IIC Ton	s Yards		
3144 Passyu	nk Avo.	TARI	E WEIGHT:	744 C)
	A 19153		s Yards		
	Joseph Jersy (781) 590-1	125 NET	WEIGHT:	21.30	0
DESCRIPTION OF MATE	CRIAL/SAMPLE ID AND LOC	P.C.			
ELECTION OF MATE	KIAL/SAMI LE ID AND LOC	ZATION			
Petroleum contamin	ated soil - Non DOT, Non RCR	A Regulated			
delayed and/or rejected. I hereby certify that the about the law, is not a hazardous was by 49 CFR Part 172 or any	ove named material does not cont te as defined by 40 CFR Part 261 applicable state law, has been ful according to all applicable state	tain free liquid a or any applical lly and accurate	as defined by 40CFR ble state law, is not a ly described above.	Part 260.10 or any	applicable state
		1.5	ulations.	= = 0	01
	K. TOTH		V. 1. (H	SITEOR	KATIND
Signature:	A all	Date a	nd Time:	-	
TRANSPORTER					
	Ryder, Inc.	Phone Nur	nber:	(215) 491-041	5
Walti	How Hill Lane, Jamison PA 1892		d License Plate:	(2.0) 101 071	
Driver:	1 /os Ne		rs Permit #:	DECIA	L ATHAM
Direct.	Type or Print Clearly)	_ SWIIIauic		(applicable state	
11	nereby certify that the above nam	ed material was	picked up at the site	listed above	: perimit#)
Driver Signature:	0 2 / 7	Date	and Time: 2	2-2 /	11:c4
DESTINATION					
	fy that the above named material	was delivered	without incident to a		
Driver Signature:	11/201	Date	and Time:	ne racility noted abo	ve.
I hereby	certify that the above named ma	terial has been a	accepted at the above	referenced facility	
Authorized Signature:	7 / 1		and Time	e referenced facility.	
47)			

GLOBAL JOB NUMBER	1017406	PROFILE NU	MBER: 243020034
	1011400	I KOI IZZ	
Please Check One: Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909 Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153	Hagerstown, MD 21740 Ph: 301-791-6220 Clean Earth of North Jersey 115 Jacobus Avenue	Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633 Clean Earth of Southeast Pennsylva 7 Steel Road East	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394 ☐ Other
Ph: 215-724-5520		Morrisville, PA 19067 Ph: 215-428-1700	
(Type or Print Clearly)	Non-Hazardou	ıs Material Manifest	
GENERATOR'S NAME & S	ITE ADDRESS:	GROSS WEIGHT:	11:12 am03-19-24 68260
Philedelphia Energy Sol	utions Refining and Marketing, LL	C ☐Tons ☐Yards	Section of the sectio
	k Ave		22460
	A 19163	☐Tons ☐Yards	
GENERATOR'S PHONE: _	Joseph Jeray (781) 590-1125	NET WEIGHT: Tons Yards	19.89
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCAT		
Petroleum contamina	ted soil - Non DOT, Non RCRA R	tegulated	
I hereby certify that the about law, is not a hazardous waste by 49 CFR Part 172 or any a	we named material does not contain e as defined by 40 CFR Part 261 or applicable state law, has been fully	free liquid as defined by 40CF any applicable state law, is no and accurately described above	FR Part 260.10 or any applicable state ta DOT hazardous substance as defined e, classified, packaged and is in proper
condition for transportation	according to all applicable state and		
4	8	_ Title: V·F. c	+ SITE AFRATIONS
Signature:	M	Date and Time:	1 14
TRANSPORTER			
Company: Kevin R	yder, Inc.	Phone Number:	(215) 491-0415
Address: 2683 Fail	low Hill Lane, Jamieon PA 18929	Truck # and License Plate:	
Driver:	/pe or Print Clearly)	SW Haulers Permit #:	DESW-1717
		motorial	(-): · · ·
Driver Signature:	ereby certify that the above named i	Date and Time:	ite listed above.
		Date and Time:	
DESTINATION			
- Cignafilite	y that the above named material wa	Date and T	
Authorized Signature:	pertify that the above named materia	Date and Time	ve referenced facility.

GLOBAL JOB NUMBER	t: 1017405	PROFILE NUMBE	243020034
Please Check One:	1017400	PROFILE NUMBER	
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	1469 Oak Ridge Place 94 Py Hagerstown, MD 21740 New 0	Earth of New Castle les Lane Castle, DE 19720 02-427-6633	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	115 Jacobus Avenue 7 Stee Kearny, NJ 07032 Morris	Earth of Southeast Pennsylvania el Road East sville, PA 19067 15-428-1700	Other
(Type or Print Clearly)	Non-Hazardous N	Material Manifest	
GENERATOR'S NAME & S	SITE ADDRESS:	GROSS WEIGHT:	17118
Philadelphia Energy Sol	Litions Refining and Marketing, LLC	Tons Yards	12:15 PM03-19-24 64500
3144 Pagentus	alk Ave.	TARE WEIGHT:	77505
Philadalah in P	W. Ave.	2000	27700
GENERATOR'S PHONE	A 19153 Joseph Jersy (781) 590-1126	Tons Yards	,
	Joseph Jeray (781) 590-1125	NET WEIGHT:	17 35
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCATION	Tons Yards	10.00
	ACTUAL SAME LE ID AND LOCATION	N	
Potrolous			
renoieum comanina	ated soil - Non DOT, Non RCRA Regu	stated	
I hereby certify that the abolaw, is not a hazardous was	cation/authorized agent ove named material does not contain free te as defined by 40 CFR Part 261 or any applicable state law, has been fully and according to all applicable state and fee	e liquid as defined by 40CFR Par applicable state law, is not a DO	t 260 10 or any applicable
/ 5 1		Barattons.	
Name: (4) (4) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	K. LOTH	Title: $$ Date and Time: $3-19-24$	STE PRATIONS
TDANCPORTER		2112)	1217
TRANSPORTER	Parter Inc		
Company.		none Number:	(215) 491-0415
Address: 2683 Fe	flow Hill Lane, Jamison PA 18929 Tr	uck # and License Plate: 70/	A699814 BA
	Type or Print Clearly)	W Haulers Permit #:	DESW-1717
		-	
///	nereby certify that the above named mate	erial was picked up at the site lis	ted above.
Driver Signature:	15061	Date and Time: 3-19	
DESTINATION	10 10 1		
I hereby certi	fy that the above named material was de	elivered without incident to the f	acility noted -1
I hereby	certify that the above named material h	as been accepted at the above re	ferenced facility
Authorized Signature:	X	Date and Time:	refereed facility.
Authorized organization			
	sr	TE	

Please Check One: Clean Earth of Maryland 24 Middlesex Avenue Clean Earth of Maryland 1480 Oak Ridge Place Self-Place Name 15301 Gardner Road 16301 Gardner Road 16	GLOBAL JOB NUMBER	1017406		PROFILE !	NUMBER:_	243020034
Clean Earth of Carter 24 Middlesex Avenue Carteret, NJ 07008 Ph; 732-441-48909 Ph; 732-451-48909 Clean Earth of Philadelphia 3201 & 618 Street Philadelphia, PA 19153 Ph; 213-241-4004 Ph; 2017-49 Ph;		227				
Title Truck # and License Plate:	Clean Earth of Carteret 24 Middlesex Avenue Carteret N I 07009	1469 Oak Ridge Place Hagerstown, MD 21740	94 Pyl New C	es Lane castle, DE 19720		16301 Gardner Road Waldorf, MD 20601
GENERATOR'S NAME & SITE ADDRESS: Philodelphia Energy Solutions Refining and Marketing, LLC ATONS Yards TARE WEIGHT: Philodelphia PA 10153 GENERATOR'S PHONE: Joseph Jerry (781) 590-1125 DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a DOT hazardous substance as defiby 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in prop condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: TRANSPORTER Company: Kevin Ryder, Inc. Phone Number: (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Thereby certify that the above named material was delivered without incident to the facility noted above. Date and Time: Thereby certify that the above named material has been accepted at the above referenced facility.	Philadelphia PA 19153	115 Jacobus Avenue Kearny, NJ 07032	7 Stee Morris	l Road East ville, PA 19067	sylvania [Other
GENERATOR'S NAME & SITE ADDRESS: Philodelphia Energy Solutione Refining and Marketing, LLC 314A Passyurk Ave. TARE WEIGHT: Jone Yards DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in prop condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time:	74220	Non-Hazard	ous M	laterial Manife	st	
Philadelphia Energy Solutions Refining and Marketing, LIC						
GENERATOR'S PHONE: Joseph Jerny (781) 590-1125 NET WEIGHT: Joseph Jerny (781) 590-1125 Joseph Jerny (781) 590-11	GENERATOR'S NAME & S	ITE ADDRESS:		GROSS WEIGHT:	12127 FM	3-19-24 69760
TARE WEIGHT: Philadelphia PA 10153 Tons Yards	Philedelphia Energy Solu	tions Refining and Marketing.	LLC	■Tons		
GENERATOR'S PHONE: Joseph Jerny (781) 590-1125 NET WEIGHT: Tons Yards DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in prop condition for transportation according to all applicable state and federal regulations. Name: Title: Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. Title: Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. Title: Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. Title: Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. Title: Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. Title: Incomplete and/or unsigned manifests will cause the load to be delayed above, classified, packaged and is in prop condition for transportation according to all applicable state and federal regulations. Name: Itle: Incomplete and/or unsigned manifests will cause the load to be delayed above, classified, packaged and is in prop condition for transportation according to all applicable state and federal regulations. Name: Itle: Incomplete and/or unsigned manifests will cause the load to be delayed above, classified, packaged and is in prop condition for transportation according to all applicable state and federal regulations. Name: Incomplete and/or unsigned manifests will cause the load to be delayed above, classified, packaged and is in prop condition for transportation according to all applicable state an				TARE WEIGHT:	21	440
DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable stat law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in prop condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: TRANSPORTER Company: Kevia Ryder, Inc. Phone Number: (215) 491-0415 Truck # and License Plate: Driver: SW Haulers Permit #: DESW-1717 (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Date and Time: Date and Time: Date and Time: I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.				☐Tons ☐Yards		
Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 172 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 260 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 260 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 260 or any applicable state law, is not a DoTh hazardous substance as defined by 40 CFR Part 260 or any applicable state law, is not a DoTh hazardous substance as defined by 40					2	1.16
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Signature: Date and Time: TRANSPORTER Company: Kevin Ryder, Inc. Phone Number: (215) 491-0415 Address: Driver: SW Haulers Permit #: DESW-1717 (Type or Print Clearly) (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Description of the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	1-00-				+ 5.7	- PERATINE
Company: Phone Number: Phone Number:	4 //	The state of the s		Date and Time:	01 211	T (ILLY) (III)
Company: Kevin Ryder, Inc. Address: Phone Number: (215) 491-0415 Truck # and License Plate: SW Haulers Permit #: DESW-1717 (Type or Print Clearly) (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Date and Time: Date and Time: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	TDANSPORTER					
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Driver: SW Haulers Permit #: DESW-1717 (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Date and Time: Destrination	N. 1915	THE COLUMN TWO IS A SECOND TO	7	20 (62)		7 401-0410
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I hereby certify that the above named material has been accepted at the above referenced facility.	~ //	1.				
	I hereby ce	ertify that the above named mat	erial has	been accepted at the	above referen	ced facility.
Authorized Signature.						
	Authorized Signature:		7			

Revised 1/29/21

Manifest # 2504113

ITEM# CE WM500 / PRO'S CHOICE PRINTING, INC. 1-888-801-1515

~-					
GLOBAL JOB NUMBER	1017405		PROFILE NUM	BER:	243020034
Please Check One:					
Clean Forth - (C	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyles New Cas	rth of New Castle Lane tle, DE 19720 427-6633	-	Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	Clean Ea 7 Steel F Morrisvill	orth of Southeast Pennsylvani load East e, PA 19067 428-1700		Other
_	Non-Hazaro	dous Ma	aterial Manifest		
Type or Print Clearly)					
GENERATOR'S NAME & S	ITE ADDRESS:	(GROSS WEIGHT:		
Philedelphia Energy Sol	stions Refining and Marketine		Tons Yards	12:	36 Fm03-19-24 64820
	k Ave.		TARE WEIGHT:	7 0	2/1/ 6
	A 19153		Tons Yards		2460
GENERATOR'S PHONE:	lange to the man		NET WEIGHT:		
	Joseph Jeray (781) 590-	1125	Tons Yards	1	8.18
	ded soil - Non DOT, Non RC				
GENERATOR'S CERTIFI delayed and/or rejected. I hereby certify that the abo law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation	ve named material does not co e as defined by 40 CFR Part 2 applicable state law, has been according to all applicable sta	GENT - Incontain free li 261 or any ap fully and ac	complete and/or unsigned quid as defined by 40CFl pplicable state law, is not curately described above	d manifest R Part 260 a DOT ha , classified	s will cause the load to be 0.10 or any applicable state zardous substance as defined 1, packaged and is in proper
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Manifest # 2504112

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	ER:1017406		P	ROFILE	NUMBER	k:	243020034
Please Check One:							
☐ Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 P New	n Earth of Ne yles Lane Castle, DE 1 02-427-6633	9720		16301 G Waldorf,	arth of Brandywine ardner Road MD 20601 389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Ste Morri	n Earth of So el Road Eas sville, PA 190 15-428-1700	67	nsylvania	Other_	3
State	Non-Hazaro	dous N	/laterial	Manife	st		
(Type or Print Clearly)			nato na				
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS V	WEIGHT:			
Philedelphia Energy Sol	utions Refining and Marketing	LLC	Tons	Yards			
	ık Ave		TARE W	EIGHT:			
Philadelphia, P.	A 19153		Tons	□Yards			
GENERATOR'S PHONE:	Joseph Jerzy (781) 590-1	126	NET W				
				Yards			
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Clean Earth of Carferet Clean Earth of Maryland Clean Earth of New Joseph Alvenue Carferet, NJ 07082 Hagerstown, MD 21740 Phi: 242-3693 Phi: 232-247-6633 Phi: 232-247-6633 Phi: 242-369-6394 Phi: 242-3694 Phi: 2	Please Check One:					Clean Earth of Brandywine
Clean Earth of Philadelphia Clean Earth of North Jersey Tissel Road East Sol 15, 1515 Street Tis Jacobus Avenue Philadelphia, PA 19153 Non-Hazardous Material Manifest	Carteret, NJ 07008	1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyl New C Ph: 30	es Lane Castle, DE 19720 2-427-6633		16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Company: Company:	Philadelphia, PA 19153	115 Jacobus Avenue Kearny, NJ 07032	7 Stee Morris	Clean Earth of Southeast Pennsylvania 7 Steel Road East Morrisville, PA 19067		Other
GENERATOR'S NAME & SITE ADDRESS: Philadelphia Frestry Solutione Refining and Marketing, LC TARE WEIGHT: TARE WEIGHT: TONS Yards NET WEIGHT: TONS Yards DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroloum contaminated soil - Non DOT, Non RCRA Required Petroloum contaminated soil - Non DOT, Non RCRA Required GENERATOR'S CERTIFICATION/AUTHORIZED AGENT Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40°CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40°CFR Part 261 or any applicable state law, is not a hazardous substance as defined by 40°CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Title:		Non-Hazardo	ous M	Naterial Manifest		
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DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroloum contaminated soil - Non DOT. Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 172 or any applicable state law, is not an accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: Date and Time: Diver: Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Destination I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time:	3144 Passyur	k Ave.		_		
DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroloum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: Diver: (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time:	Philadelphia, P.	A 19153		*		
Petroleum contaminated soil - Non DOT, Non RCRA Requinted GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: Diver: (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time:			25			
GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: Date and Time: Truck # and License Plate: SW Haulers Permit #: DESW-1717 (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time:			· TYON	*		
GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: TRANSPORTER Company: Kevin Ryder, Inc. Phone Number: (215) 491-0415 Truck # and License Plate: SW Haulers Permit #: DESW-1717 (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Destination I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: Date and Time: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCA	ATTON	*		
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GLOBAL JOB NUMBEI Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyle New Ca Ph: 302	Earth of New Castle es Lane astle, DE 19720 2-427-6633	16301 G Waldorf, PH: 240	arth of Brandywine ardner Road MD 20601 389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Steel Morrisv	Earth of Southeast Pennsylvania Road East iille, PA 19067 5-428-1700	Other	
	Non-Hazaro	dous M	aterial Manifest		
Type or Print Clearly)					
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS WEIGHT:		
	lutions Relining and Marketing	LUC	Tons Yards		
	nk Ave.		TARE WEIGHT:		
	PA 19153		☐ Tons ☐ Yards		
GENERATOR'S PHONE:	Joseph Jerny (781) 590-1		NET WEIGHT:		
	Joseph Jerry (781) COL-	1125	Tons Yards		
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GLOBAL JOB NUMBER	R:1017406		PROFILE 1	NUMBER:	243020034
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyl New C	Earth of New Castle es Lane Castle, DE 19720 12-427-6633		☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee Morris	Earth of Southeast Penn Il Road East ville, PA 19067 5-428-1700	sylvania	Other
	Non-Hazard	lous M	Material Manife	st	
(Type or Print Clearly)			iatoriai iviariilo		
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS WEIGHT:		
Philadelphia Energy So	lutions Refining and Marketing	LLC	Tons Yards	07:19 an	03-20-24 72960
3144 Passyur	nk Ave.		TARE WEIGHT:	2 -	7440
	A 19153		☐Tons ☐Yards		70
GENERATOR'S PHONE:	Joseph Jeray (781) 590-1	125	NET WEIGHT:		2 -1
	ERIAL/SAMPLE ID AND LOC		Tons Yards		2.76
law, is not a hazardous wast	ove named material does not cont the as defined by 40 CFR Part 261 applicable state law, has been ful according to all applicable state	tain free l or any a lly and a and fede	liquid as defined by 4 applicable state law, is ccurately described al eral regulations.	OCFR Part 2 s not a DOT s bove, classifi	60 10 05 050 050 1
Address:	yder, inc.		ne Number:	(21	5) 491-0415
Driver:	low Hill Lane, Jamison PA 1892		ck # and License Plate	:	
A THILL	pe or Print Clearly)	_ SW	Haulers Permit #:		DESW-1717
1000	reby certify that the above name	ed mater	ial was piakad		applicable state permit#)
Driver Signature:) - /		Date and Time:	e site listed	above.
DESTINATION					
I hereby certify Driver Signature:	ertify that the above named material		Date and Time: been accepted at the		
Authorized Signature:	TAK		Date and Time:		X
		SITE	. A		

GLOBAL JOB NUMBER	:1017406		PROFILE N	UMBER:	243020034
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyles New Ca	arth of New Castle Lane stle, DE 19720 427-6633		Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	☐ Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Steel Morrisvi	arth of Southeast Pennsy Road East lle, PA 19067 428-1700	Ivania	Other
	Non-Hazaro	dous Ma	aterial Manifest	t	
(Type or Print Clearly)					
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS WEIGHT:		
Philedelphia Energy Sol	utions Refining and Marketing	LLC	Tons ☐ Yards	-	7:39 am03-20-24 TU520
3144 Passyur	nk Ave.		TARE WEIGHT:		8460
Philadelphia, P.	A 19153		Tons Yards		
GENERATOR'S PHONE: _	Joseph Jeray (781) 590-1	125	NET WEIGHT: Tons Yards	2	2.53
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LO	CATION			
Detroles en contemirs	ated soil - Non DOT, Non RCF	A Regula	led		
* 1					
I hereby certify that the abo law, is not a hazardous was	ove named material does not conte as defined by 40 CFR Part 26 applicable state law, has been for according to all applicable state.	ntain free l of or any a fully and ac e and fede	quid as defined by 400 oplicable state law, is recurately described aboral regulations.	CFR Part 2 not a DOT ove, classifi	60.10 or any applicable state hazardous substance as defined ied, packaged and is in proper
Signature:	Tub		Date and Time: 3/4	0124	7 5
TRANSPORTER					
	Ryder, Inc.	Pho	ne Number:	(21	15) 491-0415
Company.	llow Hill Lane, Jemison PA 189		k # and License Plate:		
	1. CANTWEY		Haulers Permit #:		DESW-1717
(7	Type or Print Clearly)				(applicable state permit#)
It	ereby certify that the above nar	med materi	al was picked up at the	e site listed	above.
Driver Signature:	of Melas		Date and Time:		
DESTINATION					
	fy that the above named materia	al was deli	vered without incident	to the faci	lity noted above.
Driver Signature:	MILA		Date and Time:	r 1927	1.0 104
I hereby	certify that the above named m				enced facility.
Authorized Signature:	F		Date and Time.		

GLOBAL JOB NUMBER	R:1017406	PROFILE NUMBER	243020034
Please Check One:			
☐ Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	1469 Oak Ridge Place 94 Hagerstown, MD 21740 N	clean Earth of New Castle 4 Pyles Lane lew Castle, DE 19720 h: 302-427-6633	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	115 Jacobus Avenue 7 Kearny, NJ 07032 M	clean Earth of Southeast Pennsylvania Steel Road East dorrisville, PA 19067 h: 215-428-1700	Other
	Non-Hazardous	s Material Manifest	
(Type or Print Clearly)			
GENERATOR'S NAME & S	SITE ADDRESS:	GROSS WEIGHT:	07:22 andJ-20-24 7:580
Philadelphia Energy So	iutions Refining and Marketing, LLO	C Yards Yards	7
3144 Passyu	nk Ave.	TARE WEIGHT:	17800
Philadelphia, F	PA 19153	☐Tons ☐Yards	
GENERATOR'S PHONE:	Joseph Jeray (781) 590-1125	NET WEIGHT:	1.89
DESCRIPTION OF MATE	ERIAL/SAMPLE ID AND LOCAT		
Petroleum contamina	sted soil - Non DOT, Non RCRA Re	egulated	
GENERATOR'S CERTIFI	ICATION/AUTHORIZED AGENT	Γ - Incomplete and/or unsigned mani	fests will cause the load to be
law, is not a hazardous was by 49 CFR Part 172 or any	te as defined by 40 CFR Part 261 or a	free liquid as defined by 40CFR Part any applicable state law, is not a DOT and accurately described above, classi	hazardous substance as defined
Name: 4570GF	R. TOTH		SITE PERATIONIS
Signature:	1011	National Nat	3.12 (ILRAMON)
Signature:	(24)	Date and Time:	3.50
TRANSPORTER			
Company: Kevin I	Ryder, Inc.	Phone Number: (2	215) 491-0415
Address: 2683 Fe	allow Hill Lane, Jamison PA 18929	Truck # and License Plate: 76/	4G 99814 BA
1 0	ch	SW Haulers Permit #:	DESW-1717
	Type or Print Clearly)		(applicable state permit#)
J/1	nereby certify that the above named n	naterial was picked up at the site liste	0 (3)
Driver Signature:	1 Nade	Date and Time: _3-20	- Parity of Later
DESTINATION			
A CONTRACTOR OF THE CONTRACTOR	fy that the above named material was	s delivered without incident to the fac	rility noted above
Driver Signature:	y Mush	Date and Time:	north above.
I hereby	certify that the above named materia	al has been accepted at the above refe	renced facility
Authorized Signature:			reneed facility.
	U V		

Clean Earth of Curteret	GLOBAL JOB NUMBER	1017406	PROFILE N	UMBER:	243020034
24 Middlesex Avenue Cartere, N. U 07008 Ph. 732-541-8909 Ph. 201-791-6220 Ph. 3021 S. 61st Street Philadelphia PA 19153 Ph. 215-724-5520 Ph. 201-791-6220 Ph. 2	Please Check One:				
15 Account Name 17 Account Name 18	24 Middlesex Avenue Carteret, NJ 07008	1469 Oak Ridge Place Hagerstown, MD 21740	94 Pyles Lane New Castle, DE 19720	16301 0 Waldor	Gardner Road f, MD 20601
Type or Print Clearly GENERATOR'S NAME & SITE ADDRESS: GROSS WEIGHT: O7434 \$603-20-24 60300 Philadelphia Energy Solutiona Refining and Marketing, ILC Elfons Yards 3144 Passyurk Aue. TARE WEIGHT: O7634 Philadelphia PA 19153 O7635 Yards GENERATOR'S PHONE: Joseph Jeray (781) 550-4125 NET WEIGHT: O7635 Yards DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION 77.38 Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40-CFR Part 260.10 or any applicable state law, is not a DOT hazardous substance as defined by 49-CFR Part 172 or any applicable state law, is not a DOT hazardous substance as defined by 49-CFR Part 172 or any applicable state law, is not a DOT hazardous substance as defined by 49-CFR Part 172 or any applicable state law has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.	3201 S. 61st Street Philadelphia, PA 19153	115 Jacobus Avenue 7 Kearny, NJ 07032 N	7 Steel Road East Morrisville, PA 19067	Ivania Other	
GENERATOR'S NAME & SITE ADDRESS: Philadelphia Energy Solutions Refining and Marketing, ILC TARE WEIGHT: TARE WEIGHT: TONS Yards Philadelphia, PA 19163 GENERATOR'S PHONE: Joseph Jerny (781) 550-1125 NET WEIGHT: Tons Yards DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260 10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: // Title: / J S TE / TITLY Date and Time: DESW-1717 (Type or Print Clearly) I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: DESTINATION I hereby certify that the above named material has been accepted at the above referenced facility.		Non-Hazardou	s Material Manifes	t	
Priladelphia Energy Solutions Refining and Marketing IIC S144 Passyunk Ava TARE WEIGHT: Philadelphia, PA 19163 GENERATOR'S PHONE: Joseph Jerray (781) 590-1125 NET WEIGHT: Tons Yards Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state lamb federal regulations. Name:	(Type or Print Clearly)				
Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S PHONE:	GENERATOR'S NAME & S	SITE ADDRESS:	GROSS WEIGHT:	07:3d	V7_00_04 coron
TARE WEIGHT: Philadelphia, PA 19163	Philedelphia Energy Sol	lutions Refining and Marketing, LL	C ☐Tons ☐Yards	01.04 300	30720724 0030U
GENERATOR'S PHONE:				794	600 KL
GENERATOR'S PHONE:			Tons Yards	25/20	
Petroleum contaminated soil - Non DOT. Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: Date and Time: TRANSPORTER Company: Kevin Ryder, Inc. Phone Number: (215) 491-0415 Truck # and License Plate: DESW-1717 (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.			NET WEIGHT:	17.385.9	to the
GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: TRANSPORTER Company: Kevin Ryder, Inc. Phone Number: (215) 491-0415 Truck # and License Plate: DESW-1717 (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Date and Time: Date and Time: I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCAT		17.3	3 8
delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title:	Petroleum contamina	nted soil - Non DOT, Non RCRA R	egulated		
delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title:	CENED ATODIC CEDITIES	CATION/AUTHODIZED ACEN	T Incomplete and/or unsign		
I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: V		CATION/AUTHORIZED AGEN	1 - meomplete and/or unsig	ned mannests will ca	iuse the load to be
TRANSPORTER Company: Kevin Ryder, Inc. Phone Number: (215) 491-0415 Address: 2563 Fallow Hill Lane, Jamison PA 18829 Driver: SW Haulers Permit #: DESW-1717 (Type or Print Clearly) (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Destrination I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	I hereby certify that the abo law, is not a hazardous wast by 49 CFR Part 172 or any	te as defined by 40 CFR Part 261 or applicable state law, has been fully a	any applicable state law, is n and accurately described abo	ot a DOT hazardous	substance as defined
TRANSPORTER Company: Kevin Ryder, Inc. Phone Number: (215) 491-0415 Address: 2563 Fallow Hill Lane, Jamison PA 18829 Driver: SW Haulers Permit #: DESW-1717 (Type or Print Clearly) (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: Destrination I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	Name: GETPGF	R. TOTH	Title: V. V.	ct SITE	PERATIONS
Company: Kevin Ryder, Inc. Address: 2603 Fallow Hill Lane, Jamison PA 18329 Driver: SW Haulers Permit #: DESW-1717 (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	A. A.	May .			
Company: Kevin Ryder, Inc. Address: 2603 Fallow Hill Lane, Jamison PA 18329 Driver: SW Haulers Permit #: DESW-1717 (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	TRANSPORTER				
Address: Driver: SW Haulers Permit #: (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Date and Time: Destrination I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.		tuder. Inc.	Phone Number	/215) 401.04	145
Driver: SW Haulers Permit #: DESW-1717 (Type or Print Clearly) (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Date and Time: Date and Time:					
(Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: I hereby certify that the above named material has been accepted at the above referenced facility.	- 1			-	M 4747
I hereby certify that the above named material was picked up at the site listed above. Date and Time: Destination I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.		17	SW Haulers Permit #:		
Driver Signature: Date and Time: Destination I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: Date and Time: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.		Y	matarial was mished at the	A	ate permu»)
I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: I hereby certify that the above named material has been accepted at the above referenced facility.	/ 10	ereby certify that the above hamed i	· ·	8	
I hereby certify that the above named material was delivered without incident to the facility noted above. Driver Signature: I hereby certify that the above named material has been accepted at the above referenced facility.	Driver Signature:		Date and Time:	3/20/24	
Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	DESTINATION				
Driver Signature: Date and Time: I hereby certify that the above named material has been accepted at the above referenced facility.	I hereby certif	y that the above named material was	s delivered without incident	to the facility noted a	bove
	Driver Signature:		Date and Time:	1 1/24	

OF ORAL IOD MUMPE	4047405		PROPERTY	MIMPED	243020034
GLOBAL JOB NUMBER	R:1017405		PROFILE :	NUMBER	
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyl New C	Earth of New Castle es Lane astle, DE 19720 2-427-6633		Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee Morris	Earth of Southeast Penn I Road East ville, PA 19067 5-428-1700	sylvania	Other
	Non-Hazard	dous M	laterial Manife	st	
(Type or Print Clearly)					
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS WEIGHT:	09:06 an	003-20-24 76540
Philedelphia Energy So	lutions Refining and Marketing	LLC	Tons Yards		
3144 Passyu	nk Ave.		TARE WEIGHT:	1-	140
Philadelphia, F	A 19153		Tons Yards		
GENERATOR'S PHONE:	Joseph Jeray (781) 590-1	125	NET WEIGHT: Tons Yards	2	4.55
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOC	CATION	A		
Petroleum contamina	ated soil - Non DOT, Non RCR	A Regula	nted		
GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time:					
TRANSPORTER		DI.		ma	E) 404 044E
	tyder, Inc.		ne Number:		5) 491-0415
Driver: MANN	ype or Print Clearly)		Haulers Permit #:		DESW-1717 (applicable state permit#)
I h	ereby certify that the above nam	ned mater	al was picked up at th	he site listed	above.
Driver Signature:	69/2		Date and Time:	3-20-	21/ 357
DESTINATION					
I hereby certification Driver Signature:	certify that the above named ma		Date and Time: been accepted at the	above refere	
	1				

GLOBAL JOB NUMBER	1017406		PROFILE NUM	BER:	243020034
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyles La	, DE 19720	16301 Ga	rth of Brandywine ardner Road MD 20601 389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	☐ Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	Clean Earth 7 Steel Roa Morrisville, Ph: 215-42	PA 19067	a Other	
	Non-Hazard	ous Mat	erial Manifest		
(Type or Print Clearly)					
GENERATOR'S NAME & S	ITE ADDRESS:	GR	OSS WEIGHT:	09:08 am03	5-20-24 74180
Philedelphia Energy Soli	tions Refining and Marketing.	LLC X	Tons Yards	1-6	- 7
3144 Passyun	k Ave.	TA	RE WEIGHT:	2180	
Philadelphia, P/	19153	G.	Tons Yards		
GENERATOR'S PHONE:	Joseph Jersy (781) 590-11	2.0	ET WEIGHT: Tons Yards	23.1	19
DESCRIPTION OF MATER	RIAL/SAMPLE ID AND LOC	ATION			
Petroleum contaminal	led soil - Non DOT, Non RCR/	Regulated			
		nam I		: facta mill acu	so the load to be
delayed and/or rejected.	CATION/AUTHORIZED AGI				
I hereby certify that the above law, is not a hazardous waste	ve named material does not cont e as defined by 40 CFR Part 261 pplicable state law, has been ful according to all applicable state	or any appli	cable state law, is not a ately described above, c egulations.	classified, package	d and is in proper
/ / /	2. Toth		: V.P. ot	- SITE C	PERATIONS
1100			and Time: 3/20/2		
Signature:					
TRANSPORTER					
Company: Kevin Ry	rder, inc.	Phone N		(215) 491-041	5
Address: 2083 Fall	ow HIII Lane, Jamison PA 18929	Truck #	and License Plate: 70		04/12
Driver: John Gas		SW Hau	lers Permit #:	27/01/2021	1-1717
	pe or Print Clearly)			(applicable state	e permit#)
1 he	reby certify that the above name				
Driver Signature:	Mark	Da	te and Time:	10.29	
DESTINATION			-		
I hereby certify	that the above named material	was delivere	d without incident to the	e facility noted abo	ove.
Driver Signature:	/1/L . 1	Da	te and Time:		
I hereby co	ertify that the above named mate	1			
Authorized Signature:		Da	te and Time:		

GLOBAL JOB NUMBER	R:1017405	PROFILE NUMBE	CR: 243020034
Please Check One:			
☐ Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	1469 Oak Ridge Place 94 Hagerstown, MD 21740 Ne	ean Earth of New Castle Pyles Lane ew Castle, DE 19720 n: 302-427-6633	Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	115 Jacobus Avenue 7 S Kearny, NJ 07032 Mo	ean Earth of Southeast Pennsylvania Steel Road East orrisville, PA 19067 n: 215-428-1700	Other
	Non-Hazardous	Material Manifest	
(Type or Print Clearly)			
GENERATOR'S NAME & S	SITE ADDRESS:	GROSS WEIGHT:	09:22 am03-20-24 59420
Philedelphia Energy So	lutions Relining and Marketing, LLC	Tons Yards	
3144 Passyu	nk Ave.	TARE WEIGHT:	25620
Philadelphia, F	A 19153	☐Tons ☐Yards	
GENERATOR'S PHONE:	Joseph Jeray (781) 590-1125	NET WEIGHT: Tons Yards	16.9
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCATI		·
Petroleum contamin	ated soil - Non DOT, Non RCRA Re	gulated	
GENERATOR'S CERTIFI delayed and/or rejected.	CATION/AUTHORIZED AGENT	- Incomplete and/or unsigned ma	nifests will cause the load to be
law, is not a hazardous was	ove named material does not contain a te as defined by 40 CFR Part 261 or a applicable state law, has been fully a according to all applicable state and	any applicable state law, is not a DO and accurately described above, class	OT hazardous substance as defined
Name: GCORGE	0		SIT PERATIONS
Signature:	at the same of the	Date and Time: 3/2/1/24	
1 / / /		71-40	
TRANSPORTER			
Company: Kevin I	Ryder, Inc.	Phone Number:	(215) 491-0415
Address: 2683 Fe	How Hill Lane, Jamison PA 18929	Truck # and License Plate:	
Driver: Kan a j	1.77	SW Haulers Permit #:	DESW-1717
T)	Type or Print Clearly)	#	(applicable state permit#)
IH	ereby certify that the above named n	naterial was picked up at the site lis	sted above.
Driver Signature:		Date and Time:	. У
DESTINATION			
I hereby certi	fy that the above named material was	delivered without incident to the f	facility noted above.
Driver Signature:	100	Date and Time:	7 400 101
	certify that the above named materia		ferenced facility.
		_	

GLOBAL JOB NUMBER	1017406	PROFILE NUM	IBER: 243020034
Please Check One:			
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	1469 Oak Ridge Place 94 Hagerstown, MD 21740 Ne	ean Earth of New Castle Pyles Lane w Castle, DE 19720 : 302-427-6633	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	115 Jacobus Avenue 7 S Kearny, NJ 07032 Mo	ean Earth of Southeast Pennsylvar Steel Road East orrisville, PA 19067 : 215-428-1700	ia Other
	Non-Hazardous	Material Manifest	
(Type or Print Clearly)			
GENERATOR'S NAME & S	SITE ADDRESS:	GROSS WEIGHT:	09:25 am03-20-24 73520
Philedelphia Energy Sol	utions Refining and Marketing, LLC	Tons Yards	
3144 Passyur	ak Ave.	TARE WEIGHT:	22460
Philadelphia, P	A 19153	☐Tons ☐Yards	
GENERATOR'S PHONE:	Joseph Jersy (781) 590-1125	NET WEIGHT: ☐Tons ☐ Yards	22.53
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCATI		
	sted soil - Non DOT, Non RCRA Re		manifests will cause the load to be
delayed and/or rejected. I hereby certify that the abolaw, is not a hazardous was by 49 CFR Part 172 or any	eve named material does not contain f	ree liquid as defined by 40CFI ny applicable state law, is not nd accurately described above, federal regulations.	R Part 260.10 or any applicable state a DOT hazardous substance as defined classified, packaged and is in proper
Name: MEDIGE	K. 10TH	Title: <u>V. F. 6</u>	F SITE OPERATIONS
Signature:	A Sui	Date and Time: 3/20	124
TRANSPORTER			
Company: Kevin i	Ryder, Inc.	Phone Number:	(215) 491-0415
Address: 2683 Fe	flow Hill Lane, Jamison PA 18929	Truck # and License Plate:	
Driver: CG/		SW Haulers Permit #:	DESW-1717
C	Type or Print Clearly)		(applicable state permit#)
ĮII.	nereby certify that the above named m	aterial was picked up at the si	e listed above.
Driver Signature:	1 Maria	Date and Time:	
DESTINATION			
I hereby certi	fy that the above named material was	delivered without incident to	he facility noted above.
Driver Signature:	Pulget	Date and Time:	
	certify that the above named material	has been accepted at the above	e referenced facility.
Authorized Signature:		Date and Time:	

GLOBAL JOB NUMBER	R:1017405		PROFILE NUMBI	ER:243020034
Please Check One:				
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Py New 0	Earth of New Castle les Lane Castle, DE 19720)2-427-6633	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee	Earth of Southeast Pennsylvania el Road East sville, PA 19067 15-428-1700	Other
	Non-Hazard	lous N	Material Manifest	
(Type or Print Clearly)				
GENERATOR'S NAME & S	SITE ADDRESS:	-	GROSS WEIGHT: 10: 35	am03-20-24 75360
Philedelphia Energy So	lutions Refining and Marketing	LLC	Tons Yards	
3144 Passyu	nk Ave.		TARE WEIGHT:	7440
Philadelphia, F	PA 19153		Tons Yards	
GENERATOR'S PHONE: _	Joseph Jersy (781) 590-1	125	NET WEIGHT:	23.96
DESCRIPTION OF MATE	CRIAL/SAMPLE ID AND LOG	CATION	Transco Linear	
Petroleum contamina	sted soil - Non DOT, Non RCR	A Regu	Inted	
delayed and/or rejected. I hereby certify that the abolaw, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name: Signature:	ove named material does not con	tain free 1 or any ally and a e and fed	liquid as defined by 40CFR Pa applicable state law, is not a Do accurately described above, clas- eral regulations.	anifests will cause the load to be art 260.10 or any applicable state OT hazardous substance as defined ssified, packaged and is in proper
TRANSPORTER		DI.		(215) 491-0415
- Ст. р	Ryder, Inc.		one Number:	· · · · · · · · · · · · · · · · · · ·
Driver: Mark	ype or Print Clearly)		rck # and License Plate:	DESW-1717 (applicable state permit#)
I h Driver Signature:	ereby certify that the above name		rial was picked up at the site list	
DESTINATION	/			
I hereby certif	certify that the above named ma		_ Date and Time:s been accepted at the above re	

GLOBAL JOB NUMBER	R: 1017406		PI	ROFILE	NUMBER:	243020034
Please Check One:						
☐ Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyle New C	Earth of Nevel es Lane Castle, DE 19 2-427-6633	9720		Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee Morris	Earth of Sou I Road East ville, PA 190 5-428-1700		sylvania	Other
	Non-Hazardo	ous M	laterial	Manife	st	
(Type or Print Clearly)						
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS V	VEIGHT:	į	0:44 am03-20-24 74120
Philedelphia Energy Sol	utions Refining and Marketing,	LLC	Tons	☐Yards		-1 -
77.	ık Ave.		TARE W	EIGHT:	2	1800
	A 19163		Tons	Yards		
	Joseph Jeray (781) 590-11		NET W	EIGHT:	7	23.16
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOC	ATION	-	14.45		
	ted soil - Non DOT, Non RCRA					
delayed and/or rejected	CATION/AUTHORIZED AGE					
law, is not a hazardous waste	ve named material does not conta e as defined by 40 CFR Part 261 applicable state law, has been full according to all applicable state a	or any a Iv and ac	pplicable s	escribed ab	ove, classifie	ed, packaged and is in proper
Name: CERFE	2-TOTH		Title:	V. F	? cf s	SITE CPERATIONS
1	10		Date and T			0.40
Signature:	W.		Dute und 1			
TRANSPORTER						
Company: Kevin Ry	yder, Inc.	Pho	ne Number	r:	(215	5) 491-0415
	ow Hiji Lane, Jamison PA 18929	Truc	k # and Li	cense Plate	::	
77			Haulers Pe		-	DESW-1717
	pe or Print Clearly)	. J.,,	114410151		(a	applicable state permit#)
25.05	reby certify that the above name	d materi	al was picl	ked up at th	e site listed	above.
Mst.	///		Date and		3.20.	24
Driver Signature:	/ cut		Date and	Time:		^ /
DESTINATION						
	that the above named material w	vas delix	vered with	out incident	to the facili	ty noted above.
11441	1 H.A	as uciiv	Date and			, 10.00
Driver Signature:	ertify that the above named mate	rial hae	heen accer	nted at the a		
/ -	erury mat the above named mate					
Authorized Signature:			. Date and	Time:		

GLOBAL JOB NUMBER	1017406		PROFILE NUM	BER:	243020034
Please Check One:					
☐ Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Py New 0	Earth of New Castle les Lane Castle, DE 19720 02-427-6633		Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	☐ Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee	Earth of Southeast Pennsylvania el Road East sville, PA 19067 15-428-1700	a	Other
	Non-Hazar	dous N	Material Manifest		*
(Type or Print Clearly)					
GENERATOR'S NAME & S	ITE ADDRESS:		GROSS WEIGHT:	1	0:56 am03-20-24 67720
Philiadelphia Energy Sol	utions Refining and Marketin	g, LLC	☐ Yards		7.00 BHCG ED ET 01720
3144 Passyur	ık Ave.		TARE WEIGHT:	1	S62 C
	A 19153		Tons Yards	-	
GENERATOR'S PHONE:	Joseph Jeray (781) 590-	1125	NET WEIGHT: Tons Yards	2	1.05
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LO	CATION			
Petroleum contamina	ited soil - Non DOT, Non RC	RA Regu	lated		
delayed and/or rejected.	CATION/AUTHORIZED AC				
law, is not a hazardous was	ve named material does not come as defined by 40 CFR Part 20 applicable state law, has been facording to all applicable state	61 or any fully and a	applicable state law, is not a accurately described above, c eral regulations.	DOT h lassifie	azardous substance as defined ed, packaged and is in proper
/ -	R. TOTH		Title: V. F. &		TE OPERATIONS
Signature:			Date and Time:	_A-	14.20
TRANSPORTER			1		
W	lyder, Inc.	Ph	one Number:	(215	5) 491-0415
Company.	low Hill Lane, Jamison PA 189	_	ick # and License Plate:		
-			Haulers Permit #:		DESW-1717
Driver:	ype or Print Clearly)	_ 3	Hauleis Fellint #.	(a	pplicable state permit#)
	ereby certify that the above nar	med mate	rial was picked up at the site	listed a	above.
/	,		7 7		1
Driver Signature:			_ Date and Time.	1	1
DESTINATION	_				
I hereby certif	y that the above named materia	al was del	ivered without incident to the	facili	ty noted above.
Driver Signature:	/		_ Date and Time:		
I hereby	certify that the above named m	aterial ha	s been accepted at the above	referer	aced facility.
Authorized Signature:	AA		Date and Time:		

GLOBAL JOB NUMBER	1017406		PROFILE N	UMBER:	243020034
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyl New C	Earth of New Castle es Lane castle, DE 19720 2-427-6633		Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee Morris	Earth of Southeast Pennsyl Il Road East ville, PA 19067 5-428-1700	vania	Other
	Non-Hazardo	ous N	Material Manifest		
(Type or Print Clearly)					
GENERATOR'S NAME & S	ITE ADDRESS:		GROSS WEIGHT:	1	1:01 am03-20-24 84520
Philedelphia Energy Soli	utions Refining and Marketing,	LLC	Tons Yards		
3144 Passyun	ık Ave.		TARE WEIGHT:	2	8460
	A 19153		☐Tons ☐Yards		
	Joseph Jeray (781) 590-11:		NET WEIGHT: Tons Yards	2	8.03
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCA	ATION	~		
Petroleum contamina	ted soil - Non DOT, Non RCRA	Regui	nted		
delayed and/or rejected.	CATION/AUTHORIZED AGE				
law, is not a hazardous waste	ve named material does not conta e as defined by 40 CFR Part 261 applicable state law, has been full according to all applicable state a	or any a	applicable state law, is no ccurately described above eral regulations.	ot a DOT h	azardous substance as defined ed, packaged and is in proper
Name: GERGE K			Title: V	of SI	TE OFERMONS
Signature:	100		Date and Time:		5
TRANSPORTER					
Company: Kevin R	yder, Inc.	Pho	one Number:	(215	5) 491-0415
water at	low Hill Lane, Jamison PA 18929	Tru	ck # and License Plate:		
Driver: C 6 /11	CARTOLLY		Haulers Permit #:		DESW-1717
	pe or Print Clearly)			***	pplicable state permit#)
I/he	ereby certify that the above name	d mater	ial was picked up at the	site listed a	above.
Driver Signature:	11.20		_ Date and Time:		
DESTINATION					
Driver Signature:	y that the above named material v		Date and Time:		
I hereby of Authorized Signature:	certify that the above named mate	erial has			ced facility.
	1				

190					
GLOBAL JOB NUMBER	1017406		PROFILE !	NUMBER	243020034
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Py New 0	Earth of New Castle les Lane Castle, DE 19720 02-427-6633		Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee Morris	Earth of Southeast Penn el Road East sville, PA 19067 15-428-1700	sylvania	Other
	Non-Hazar	dous N	Material Manife	st	
(Type or Print Clearly)					
GENERATOR'S NAME & S	·	- 110	GROSS WEIGHT: Trons Yards	12:08 PT	m03-20-24 78700
	lutions Refining and Marketin	-	TARE WEIGHT:	7	7446
	nk Ave.		Tons Yards		14-10
Philadelphia, F			NET WEIGHT:		, -
GENERATOR'S PHONE: _	Joseph Jersy (781) 590-	1125	Tons Yards	2	5.63
	RIAL/SAMPLE ID AND LO				
Petroleum contamina	ated soil - Non DOT, Non RC	RA Regu	isted		
I hereby certify that the abo law, is not a hazardous was	ove named material does not co te as defined by 40 CFR Part 2 applicable state law, has been according to all applicable sta	ntain free 61 or any	liquid as defined by 4 applicable state law, is	OCFR Part 2	
Name: (4F)(GF)				1. of <	SITE OPERATIONS
Signature:	ot		Date and Time:	1201-1	2.06
TRANSPORTER					
Company: Kevin I	Ryder, Inc.	Ph	one Number:	(2	15) 491-0415
	flow Hill Lane, Jamison PA 18	929 Tr	uck # and License Plat	te:	
V7	1.00		V Haulers Permit #:		DESW-1717
	Type or Print Clearly)				(applicable state permit#)
II	nereby certify that the above na	med mate	rial was picked up at t	the site listed	l above.
Driver Signature:	1034		Date and Time:	3.20	1121
DESTINATION					
National Control of the Control of t	fy that the above named materi	al was de	livered without incider	nt to the faci	lity noted above.
Driver Signature:	15.17		Date and Time:		
	certify that the above named n	naterial ha			
Authorized Signature:	JA)	Date and Time:		

GLOBAL JOB NUMBER	:1017405		PROFILE NUM	BER:	243020034	
Please Check One:						
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyl New C	Earth of New Castle es Lane castle, DE 19720 2-427-6633	Clean Earth of 16301 Gardn Waldorf, MD PH: 240-389-	er Road 20601	
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	☐ Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee Morris	Earth of Southeast Pennsylvania I Road East ville, PA 19067 5-428-1700	a Other		
	Non-Hazard	lous N	Material Manifest			
(Type or Print Clearly)						
GENERATOR'S NAME & S	ITE ADDRESS:		GROSS WEIGHT:	10111 - 07 0	0.01 5/5/0	
Philedelphia Energy Soli	utions Refining and Marketing	LLC	☐Yards	12:14 pm03-2	0-24 76540	
	k Ave.	*	TARE WEIGHT:	2780	00	
	A 19153		☐Tons ☐Yards			
	Joseph Jeray (781) 590-1	125	NET WEIGHT: Tons Yards	24.3	7	
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LO	CATION				
Petroleum contamina	ted soil - Non DOT, Non RCR	A Regul	ated			
GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time:						
TRANSPORTER	udus fee	701		(215) 491-0415		
	yder, Inc.		one Number:	1 4 4 6 0 4 6	4 80	
700	low Hill Lune, Jamison PA 1892		ick # and License Plate:		7 / 77	
Driver: John Ga	ype or Print Clearly)	_ sw	Haulers Permit #:	DESW-1		
(Type or Print Clearly) A hereby certify that the above named material was picked up at the site listed above. Driver Signature: Date and Time: 3-20-24						
DESTINATION						
Driver Signature:	certify that the above named ma	200000000000000000000000000000000000000	Date and Time:s been accepted at the above			
Addiolized Signature.	C	V				

GLOBAL JOB NUMBER	1017406	PROFILE NUM	MBER: 243020034
Please Check One:			
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
☐ Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	Clean Earth of Southeast Pennsylval 7 Steel Road East Morrisville, PA 19067 Ph: 215-428-1700	nia Other
	Non-Hazardo	us Material Manifest	
(Type or Print Clearly)			
GENERATOR'S NAME & S	ITE ADDRESS:	GROSS WEIGHT:	12:26 pm03-20-24 - 64180
Philedelphia Energy Sol	utions Refining and Marketing, I	Tons Yards	12:25 PMU3-20-24 5:10U
3144 Passyur	k Ave.	TARE WEIGHT:	75620
Philadelphia, P.	A 19153	☐Tons ☐Yards	
GENERATOR'S PHONE: _	Joseph Jeray (781) 590-112	NET WEIGHT: Tons Yards	19.28
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCA		
Petroleum contamine	ted soil - Non DOT, Non RCRA	Regulated	
		Section 2 Sectio	
GENERATOR'S CERTIFI delayed and/or rejected.	CATION/AUTHORIZED AGE	NT - Incomplete and/or unsigned	manifests will cause the load to be
I hereby certify that the abo law, is not a hazardous was by 49 CFR Part 172 or any	te as defined by 40 CFR Part 261	or any applicable state law, is not y and accurately described above.	R Part 260.10 or any applicable state a DOT hazardous substance as defined classified, packaged and is in proper
Name: GOOG	0 -		F STE NORATIONS
Signature:	Tue		124
TRANSPORTER			W.
Company: Kevin I	tyder, Inc.	Phone Number:	(215) 491-0415
Address: 2683 Fe	dow Hill Lane, Jemison PA 18929	Truck # and License Plate:	
	114/2		DESW-1717
	Type or Print Clearly)	_	(applicable state permit#)
II	ereby certify that the above name	d material was picked up at the si	te listed above.
			14
DESTINATION			
Driver Signature:		Date and Time:	114
Authorized Signature:	certify that the above named mate		e referenced facility.

GLOBAL JOB NUMBER	1017405		PROFILE NUM	BER:	249020034		
Please Check One:							
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyl New C	Earth of New Castle es Lane Castle, DE 19720 92-427-6633	☐ Clean Earth 16301 Gard Waldorf, M PH: 240-38	D 20601		
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee	Earth of Southeast Pennsylvania Il Road East ville, PA 19067 5-428-1700	Other			
	Non-Hazard	lous N	Material Manifest				
(Type or Print Clearly)							
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS WEIGHT:				
Philedelphia Energy Sol	utions Refining and Marketing	LLC	Tons ☐ Yards	12:30 pm03-			
	sk Ave.		TARE WEIGHT:	640	60		
	A 19153		☐Tons ☐Yards				
	Joseph Jeray (781) 590-1	125	NET WEIGHT:	30.3	3		
Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations. Name: Title: Date and Time: Date and Time:							
TRANSPORTER Company: Kevin F	tyder, Inc.	Ph	one Number:	(215) 491-0415			
	flow Hill Lane, Jamison PA 1890	29 Tr	ick # and License Plate:				
	- CARTURY		/ Haulers Permit #:	DESW-	1717		
STREET, STREET	Type or Print Clearly)			(applicable state	permit#)		
	nereby certify that the above nam	ned mate	rial was picked up at the site Date and Time:				
Driver Signature:	certify that the above named ma		Date and Time:	referenced facility.	:		

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Manifest # 2504090

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LOBAL TOD NONIDE	R:1017406		PROFILE NU	MBER:	243020034
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	Clean Earth of New Castle 94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633		_	Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee	☐ Clean Earth of Southeast Pennsylv 7 Steel Road East Morrisville, PA 19067 Ph: 215-428-1700		Other
	Non-Hazard	lous N	Material Manifest		
Type or Print Clearly)					
GENERATOR'S NAME &	SITE ADDRESS:		GROSS WEIGHT:		
Philedelphia Energy So	lutions Refining and Marketing	LLC	☑Tons ☐Yards		
3144 Passyunk Ave.			TARE WEIGHT:		
A CONTRACTOR OF THE PROPERTY O	PA 19163		☐Tons ☐Yards		
	Joseph Jersy (781) 590-1		NET WEIGHT:		
	3030pt10010) (101) 000 1		☐Tons ☐Yards		
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab	ICATION/AUTHORIZED AG	GENT -	Incomplete and/or unsign	ed manifests	will cause the load to be
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name:		GENT -	Incomplete and/or unsign e liquid as defined by 40C applicable state law, is no accurately described above leral regulations. Title: V. [.]	FR Part 260. ot a DOT haz	will cause the load to be 10 or any applicable state cardous substance as defined packaged and is in proper
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name:	Ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fin according to all applicable state	GENT -	Incomplete and/or unsign e liquid as defined by 40C applicable state law, is no accurately described above leral regulations. Title: V. [.]	FR Part 260. ot a DOT haz	will cause the load to be 10 or any applicable state
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name: Signature: TRANSPORTER	Ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fin according to all applicable state	ntain free of or any ully and e and fee	Incomplete and/or unsign e liquid as defined by 40C applicable state law, is no accurately described above deral regulations. Title: Date and Time:	FR Part 260. FR Part 260. To a DOT haz To classified,	will cause the load to be 10 or any applicable state cardous substance as defined packaged and is in proper
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name: TRANSPORTER Company: Kevin	ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fin according to all applicable state.	ntain free il or any ully and e and fec	Incomplete and/or unsign a liquid as defined by 40C applicable state law, is not accurately described above deral regulations. Title: V Date and Time: 3/2	FR Part 260. FR Part 260. To a DOT haz To classified,	will cause the load to be 10 or any applicable state cardous substance as defined packaged and is in proper
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name: TRANSPORTER Company: Address: CERTIF CERTIF Company: Kevin Address:	ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fin according to all applicable state.	ntain free of or any ully and e and fec	Incomplete and/or unsign a liquid as defined by 40C applicable state law, is no accurately described above leral regulations. Title: Date and Time: Jone Number: uck # and License Plate:	FR Part 260. FR Part 260. To a DOT haz To classified,	will cause the load to be 10 or any applicable state cardous substance as defined packaged and is in proper
GENERATOR'S CERTIF delayed and/or rejected. I hereby certify that the ab law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation Name: TRANSPORTER Company: Address: Driver:	ove named material does not conste as defined by 40 CFR Part 26 applicable state law, has been fin according to all applicable state.	ntain free of or any ully and e and fec	Incomplete and/or unsign a liquid as defined by 40C applicable state law, is not accurately described above deral regulations. Title: V Date and Time: 3/2	FR Part 260. ot a DOT haz ve, classified,	will cause the load to be 10 or any applicable state cardous substance as defined packaged and is in proper
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CleanEarth •

Manifest # 2504091

GLOBAL JOB NUMBER	: 1017405		PRO	OFILE I	NUMBER:	243020034
Please Check One:						
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	1469 Oak Ridge Place Hagerstown, MD 21740	94 Pyl New C	Earth of New 0 es Lane Castle, DE 1972 2-427-6633			☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	115 Jacobus Avenue Kearny, NJ 07032	7 Stee Morris	Earth of South I Road East ville, PA 19067 5-428-1700		sylvania	Other
(Type or Brint Clearly)	Non-Hazardou	ıs N	1aterial N	/lanife	st	
(Type or Print Clearly) GENERATOR'S NAME & S	ITE ADDRESS.		GROSS WI	EIGUT:		
	utions Refining and Marketing, I.I.	C		Yards		
	k Ave.		TARE WE	-20		
	A 19153			Yards		
GENERATOR'S PHONE: _	Joseph Jerzy (781) 590-1125	5	NET WEI	GHT: Yards		
DESCRIPTION OF MATE	RIAL/SAMPLE ID AND LOCAT	ΓΙΟΝ	74	_ rards		
Petroleum contamina	sted soil - Non DOT, Non RCRA F	Regul	lated			
delayed and/or rejected. I hereby certify that the abo	CATION/AUTHORIZED AGEN ve named material does not contain	n free	liquid as defi	ined by 4	OCFR Part 2	60.10 or any applicable state
by 49 CFR Part 172 or any	te as defined by 40 CFR Part 261 or applicable state law, has been fully according to all applicable state an	and a	accurately de	scribed al	s not a DOT l bove, classifi	hazardous substance as defined ed, packaged and is in proper
Name: GERRAT	\		Title:		A 51T	E OFFRATINS
Signature:	Tun-		Date and Ti			
TRANSPORTER						
Company: Kevin I	Ryder, Inc.	Pho	one Number:		(21	5) 491-0415
	flow Hill Lane, Jamison PA 15929	Tru	ick # and Lic	ense Plat	e:	
	Type or Print Clearly)		Haulers Per			DESW-1717
(T)	ype or Print Clearly)					applicable state permit#)
I h	ereby certify that the above named	mate	rial was pick	ed up at t	he site listed	above.
Driver Signature:	42-		_ Date and ?	Γime: _	=//-4	
DESTINATION						
I hereby certif	fy that the above named material wa	as del	livered witho	ut incide	nt to the facil	ity noted above.
Driver Signature:			_ Date and ?	Гime: _	3/20/	ZY
I hereby	certify that the above named mater					
Authorized Signature:			_ Date and 7	Γime: _		

CleanEarth •

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Adda

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Manifest # 2504092

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GLOBAL JOB NUMBER	R:1017406		PROFILE NU	MBER:	24302003
Please Check One:			*		
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Pyl	Earth of New Castle es Lane astle, DE 19720 2-427-6633		Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee Morris	Earth of Southeast Pennsylv Road East rille, PA 19067 5-428-1700	ania	Other
	Non-Hazaro	dous M	aterial Manifest		
Type or Print Clearly)					
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS WEIGHT:		
Philedelphia Energy So	lutions Refining and Marketing	g, LLC	Tons ☐ Yards		
3144 Разхуди	nk Ave.		TARE WEIGHT:		
	A 19153		☐Tons ☐Yards		
	Joseph Jeray (781) 590-1		NET WEIGHT:		
			☐ Tons ☐ Yards		
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GENERATOR'S CERTIFI delayed and/or rejected. I hereby certify that the abo law, is not a hazardous was by 49 CFR Part 172 or any condition for transportation	CATION/AUTHORIZED AC ove named material does not conte as defined by 40 CFR Part 26 applicable state law, has been f according to all applicable state	GENT - In ntain free 61 or any a fully and a te and fede	iquid as defined by 40CI pplicable state law, is no courately described above ral regulations.	FR Part 26 t a DOT h e, classifie	60.10 or any applicable stat hazardous substance as defi ed, packaged and is in prop
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Manifest # 2504093

	1017406		PROFILE	NUMBER:	243020034
Please Check One:					
Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909	Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220	94 Py New 0	Earth of New Castle es Lane castle, DE 19720 12-427-6633	163 Wai	an Earth of Brandywine 01 Gardner Road dorf, MD 20601 240-389-6394
Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	☐ Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	7 Stee	Earth of Southeast Penn Il Road East ville, PA 19067 5-428-1700	sylvania	er
	Non-Hazard	lous N	laterial Manife	st	
(Type or Print Clearly)					
GENERATOR'S NAME & S	SITE ADDRESS:		GROSS WEIGHT:		
Philedelphia Energy Sol	utions Refining and Marketing	LLC	Tons Yards		
3144 Passyur	nk Avo.		TARE WEIGHT:		
	A 19153		☐Tons ☐Yards		
	Joseph Jeray (781) 590-1		NET WEIGHT:		
			☐Tons ☐Yards		
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CleanEarth•

Manifest #

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		PROFILE NUMBER	:
GLOBAL JOB NUMBI	ER: 1017405		
Please Check One: Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909 Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153 Ph: 215-724-5520	☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220 ☐ Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 Ph: 973-344-4004	lean Earth of New Castle 4 Pyles Lane ew Castle, DE 19720 h: 302-427-6633 lean Earth of Southeast Pennsylvania Steel Road East dorrisville, PA 19067 h: 215-428-1700 S Material Manifest	☐ Clean Earth of Brandywine 16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394 ☐ Other
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(Type or Print Clearly)		GROSS WEIGHT:	01154 5007-20-24 71240
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Dhiladelphia P	A 19153	NET WEIGHT:	22.81
GENERATOR'S PHONE:	Joseph Jeray (781) 590-1125	NET WEIGHT.	CC.0.
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	uter Inc	Phone Number:	(215) 491-0415
pany: Kevin Ry		San and the secretary for the secretary of the	
ess: 2585 Fello	ow Hill Lane, Jamison PA 19929	Truck # and License Plate:	DESW-1717
r. Kern Ru	NIC .	SW Haulers Permit #:	(applicable state permit#)
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Non-Hazardous Material Manifest (Type or Print Clearly) GENERATOR'S NAME & SITE ADDRESS: Philedelphia Energy Solutions Refining and Marketing, LLC TARE WEIGHT: 3144 Prospund. Ave Philedelphia, PA 19153 GENERATOR'S PHONE: Joseph Jerray (781) 590-1125 DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the leave is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substan law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a policable state law, has been fully and accurately described above, classified, packaged and by 49 CFR Part 172 or any applicable state and federal regulations. Name: Title: The physical Ryder, Inc. The phone Number: Title: Date and Time: Truck # and License Plate: SW Haulers Permit #: (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above.	Please Check One: ☐ Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 Ph: 732-541-8909 ☐ Clean Earth of Philadelphia 3201 S. 61st Street ☐ Clean Earth of Maryland 1469 Oak Ridge Place Hagerstown, MD 21740 Ph: 301-791-6220 ☐ Clean Earth of North Jersey 115 Jacobus Avenue Kearny, NJ 07032 ☐ Clean Earth of North Jersey 115 Jacobus Avenue Morri	Vies Lane Castle, DE 19720 02-427-6633 The Earth of Southeast Pennsylvania and East is wille. PA 19067 Waldorf, MD 20601 PH: 240-389-6394
Company: Non-Hazardous Material Maritiest	Ph: 973-344-4004	
Company:	Non-Hazardous	Material Manifest
GENERATOR'S NAME & SITE ADDRESS: Philodolphia Energy Solutions Refining and Marketing, LLC Philodolphia Energy Solutions Refining and Marketing, LLC TARE WEIGHT: TONS Yards Philodolphia Pa 19153 GENERATOR'S PHONE: Ioseph Jerry (781) 590-1125 DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleum contaminated soil - Non DOT, Non RCRA Regulated GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the Relayed and/or rejected. I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a DOT hazardous substan law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substan law, is not a hazardous waste as defined by 40 CFR Part 260 or any applicable state law, has been fully and accurately described above, classified, packaged and condition for transportation according to all applicable state and federal regulations. Title: Date and Time: Title: Date and Time: Truck # and License Plate: SW Haulers Permit #: (215) 491-0415 Truck # and License Plate: SW Haulers Permit #: (applicable state purchased was picked up at the site listed above.		212/0
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I hereby certify that the above named material was delivered without incident to the facility noted about		s delivered without incident to the facility noted above
I Holody corinty min me accommend management	I hereby certify that the above named material was	3 delivered without morating to the received
6/11/5/10	6/11/5	
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	r Signature: MD 5 4	Date and Time:

Clean Earth of Maryland Clean Earth of M	GLOBAL JOB NUMBER: Please Check One:		4 4 4	PROFILE	NUMBER:	243020034
Clean Earth of Carlored Clean Earth of Maryland 24 Middlessex Avenue Carlored 1480 Oak Ridge Place Hage Stake, 14	Clean Earth of Carleret Clean Earth of Maryland 24 Modelese Avenue Carleret NJ 07008 Ph. 23-24-13690 Ph. 24-369-6994 Ph. 24-3696-6994 Ph. 24-3696-69	GLOBAL JOB NUMBER	R:1017405	FROTTE		
Clean Earth of Philadelphia Sail 5, Stal Street Sail 5, Stal	Clean Earth of Philadelphia 3011 5 61st Street 15 Jacobus Avenue Reamy, NJ 07032 Ph: 973-344-000 Non-Hazardous Material Manifest (Type or Print Clearly) GENERATOR'S NAME & SITE ADDRESS: Phieodelphia Energy Solutions Refiring and Marketing, LLC Philadelphia Ph 19158 GENERATOR'S PHONE: Joseph Jeray (781) 590-1125 DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroloum contaminated soff - Mon DOT, Non RCRA Regulated ENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be layed and/or rejected. hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 26 or any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 170 cr any applicable stat	Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008	1469 Oak Ridge Place Hagerstown, MD 21740 Ph. 301-791-6220	94 Pyles Lane New Castle, DE 19720 Ph: 302-427-6633		16301 Gardner Road Waldorf, MD 20601 PH: 240-389-6394
Type or Print Clearly) GENERATOR'S NAME & SITE ADDRESS: Philadelshia Enemy Solutions Refining and Marketing, LLC Philadelshia PA 19163 GENERATOR'S PHONE: Joseph Jeray (781) 590-1125 DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroleum contaminated soil - Mon DOT, Non RCRA Regulated ENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be layed and/or rejected. hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state way, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accurately described above, classified, packaged and is in proportion of the state law, has been fully and accur	Type or Print Clearly) GENERATOR'S NAME & SITE ADDRESS: Pheodolphia Energy Solutions Refining and Marketing, ILC Philadelphia, PA 19163 GENERATOR'S PHONE: Joseph Jeray (781) 590-1125 DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION Petroloum contaminated soil - Mon DOT, Non RCRA Regulated ENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be layed and/or rejected. hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state way, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 40 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proportion of the print of the part of the	Clean Earth of Philadelphia 3201 S. 61st Street Philadelphia, PA 19153	115 Jacobus Avenue Kearny, NJ 07032	7 Steel Road East Morrisville, PA 19067	nnsylvania	Other
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Petroleum contaminated soil - Non DOT, Non RCRA Regulated ENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be layed and/or rejected. hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state way, is not a hazardous waste as defined by 40 CFR Part 270 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proposition for transportation according to all applicable state and federal regulations. Title: Title: Date and Time: John Goh SW Haulers Permit #: DESW-717 (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Signature: Date and Time:	Petroleum contaminated soil - Non DOT, Non RCRA Regulated ENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be layed and/or rejected. hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state way, is not a hazardous waste as defined by 40 CFR Part 270 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proposition for transportation according to all applicable state and federal regulations. Title: Title: Date and Time: John Goh SW Haulers Permit #: DESW-717 (applicable state permit#) I hereby certify that the above named material was picked up at the site listed above. Signature: Date and Time:	-				9.9)
Phone Number: (215) 491-0415 ess: 2683 Follow Hill Lane, Jamison PA 18929 Truck # and License Plate: 70/ AG 99804/ Fift (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Signature: Date and Time: 3-20-24 INATION I hereby certify that the above named material was delivered without incident to the facility noted above. Date and Time: Uhereby certify that the above named material has been accepted at the above referenced facility.	Phone Number: (215) 491-0415 ess: 2683 Follow Hill Lane, Jamison PA 18929 Truck # and License Plate: 70/ AG 99804/ Fift (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Signature: Date and Time: 3-20-24 INATION I hereby certify that the above named material was delivered without incident to the facility noted above. Date and Time: Uhereby certify that the above named material has been accepted at the above referenced facility.	y 49 CFR Part 172 or any appondition for transportation acc	olicable state law, has been fully cording to all applicable state an	and accurately described d federal regulations.	above, classified	, packaged and is in prop
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Truck # and License Plate: 70 / AG 99864 FA SW Haulers Permit #: DESW-1717 (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Date and Time: 3-20-24 INATION I hereby certify that the above named material was delivered without incident to the facility noted above. Date and Time: Date and Time: Date and Time: Date and Time: Thereby certify that the above named material has been accepted at the above referenced facility.	Truck # and License Plate: 70 / AG 99864 FA SW Haulers Permit #: DESW-1717 (Type or Print Clearly) I hereby certify that the above named material was picked up at the site listed above. Date and Time: 3-20-24 INATION I hereby certify that the above named material was delivered without incident to the facility noted above. Date and Time: Date and Time: Date and Time: Date and Time: Thereby certify that the above named material has been accepted at the above referenced facility.	ANSPORTER	79			
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Pate and Time:		zed Signature:	that the above named materia		he above referen	nced facility.



Connect Profile Detail Report

Job ID 1017405 3/18/2024 - 3/21/2024

Capitol Environmental Services Philadelphia Energy Solutions-The Bellwether

Approval	243020034	Clear	Earth of New C	Castle					
Ticket	Date		Truck	Plate	Manifest	Gross	Tare	Net	Units
3382884	3/19/2024	8:45 AM	02KR701	AG-01708	2504124	36.72	13.90	22.82	Т
3385899	3/19/2024	8:47 AM	02KR1601	AG-31822PA	2504123	39.36	13.72	25.64	Т
3385901	3/19/2024	8:48 AM	02KR2001	AG-90033PA	2504122	35.23	14.23	21.00	T
3386061	3/19/2024	10:16 AM	02KR701	AG-01708	2504121	34.23	13.90	20.33	T
3386074	3/19/2024	10:22 AM	02KR1601	AG-31822PA	2504120	34.96	13.72	21.24	Т
3386085	3/19/2024	10:28 AM	02KR2001	AG-90033PA	2504119	33.63	14.23	19.40	T
3386219	3/19/2024	11:36 AM	02KR701	AG-01708	2504118	33.87	13.90	19.97	T
3386230	3/19/2024	11:42 AM	02KR1601	AG-31822PA	2504117	35.08	13.72	21.36	T
3386245	3/19/2024	11:50 AM	02KR2001	AG-90033PA	2504116	34.12	14.23	19.89	Т
3386383	3/19/2024	12:54 PM	02KR701	AG-01708	2504115	32.25	13.90	18.35	Т
3386396	3/19/2024	1:01 PM	02KR1601	AG-31822PA	2504114	34.88	13.72	21.16	Т
3386426	3/19/2024	1:15 PM	02KR2001	AG-90033PA	2504113	32.41	14.23	18.18	Т
3386568	3/19/2024	2:12 PM	02KR701	AG-01708	2504112	36.81	13.90	22.91	Т
3386574	3/19/2024	2:17 PM	02KR1601	AG-31822PA	2504111	35.50	13.72	21.78	Т
3386594	3/19/2024	2:27 PM	02KR2001	AG-90033PA	2504110	39.44	14.23	25.21	Т
3382885	3/20/2024	7:58 AM	02KR1601	AG-31822PA	2504109	36.48	13.72	22.76	Т
3386898	3/20/2024	8:01 AM	02KR701	AG-01708	2504107	35.79	13.90	21.89	Т
3386966	3/20/2024	8:20 AM	02KR2301	PA	2504106	30.19	12.81	17.38	T
3386970	3/20/2024	8:22 AM	02KR2001	AG-90033PA	2504108	36.76	14.23	22.53	T
3387139	3/20/2024	9:45 AM	02KR1601	AG-31822PA	2504105	38.27	13.72	24.55	T
3387141	3/20/2024	9:47 AM	02KR701	AG-01708	2504104	37.09	13.90	23.19	T
3387171	3/20/2024	10:01 AM	02KR2301	PA	2504103	29.71	12.81	16.90	Т



connect Profile Detail Report

Job ID 1017405 3/18/2024 - 3/21/2024

Capitol Environmental Services Philadelphia Energy Solutions-The Bellwether

3387623 3387640	3/20/2024 3/20/2024	2:32 PM 2:38 PM	02KR2301 02KR2001	PA AG-90033PA	2504091 2504090	35.62 37.18	12.81 14.23	22.81 22.95	T T
3387592	3/20/2024	2:13 PM	02KR701	AG-01708	2504092	38.83	13.90	24.93	T
3387574	3/20/2024	2:06 PM	02KR1601	AG-31822PA	2504093	40.63	13.72	26.91	Т
3387482	3/20/2024	1:09 PM	02KR2001	AG-90033PA	2504094	44.53	14.23	30.30	T
3387474	3/20/2024	1:05 PM	02KR2301	PA	2504095	32.09	12.81	19.28	Т
3387451	3/20/2024	12:53 PM	02KR701	AG-01708	2504096	38.27	13.90	24.37	Т
3387439	3/20/2024	12:47 PM	02KR1601	AG-31822PA	2504097	39.35	13.72	25.63	Т
3387335	3/20/2024	11:39 AM	02KR2001	AG-90033PA	2504098	42.26	14.23	28.03	Т
3387330	3/20/2024	11:34 AM	02KR2301	PA	2504099	33.86	12.81	21.05	Т
3387317	3/20/2024	11:23 AM	02KR701	AG-01708	2504100	37.06	13.90	23.16	Т
3387311	3/20/2024	11:17 AM	02KR1601	AG-31822PA	2504101	37.68	13.72	23.96	Т
3387177	3/20/2024	10:04 AM	02KR2001	AG-90033PA	2504102	36.76	14.23	22.53	T

Report Created 3/21/2024 3:26:15 PM

U.S. Fish and Wildlife Service

National Wetlands Inventory

NWI PES Refinery



September 22, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Introduction

This Conservation Planning Report compiles names, descriptions, maps, locations, measurements, links and references for Natural Heritage Areas (core and supporting habitats), Important Bird Areas, State Lands, and agency designated water resources that are coincident with an area of interest defined by the user of the Pennsylvania Conservation Explorer tool. For an overview and additional details, please be sure to visit the website at www.naturalheritage.state.pa.us and download the applicable County Natural Heritage Inventory report(s).

Site Area: 0.24 acres County(s): Philadelphia

Township/Municipality(s): PHILADELPHIA Quadrangle Name(s): PHILADELPHIA

Watersheds HUC 8: Schuylkill

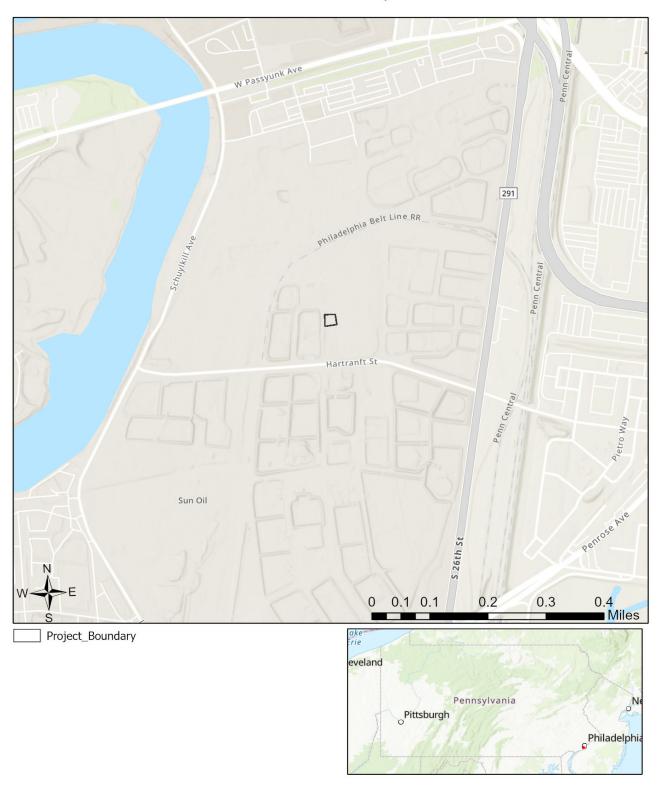
Watersheds HUC 12: City of Philadelphia-Schuylkill River

Decimal Degrees: 39.914058 N, -75.197365 W

Degrees Minutes Seconds: 39° 54′ 50.6104" N, 75° 11′ 50.5126" W

No conservation planning areas of interest have been detected.

Conservation Report

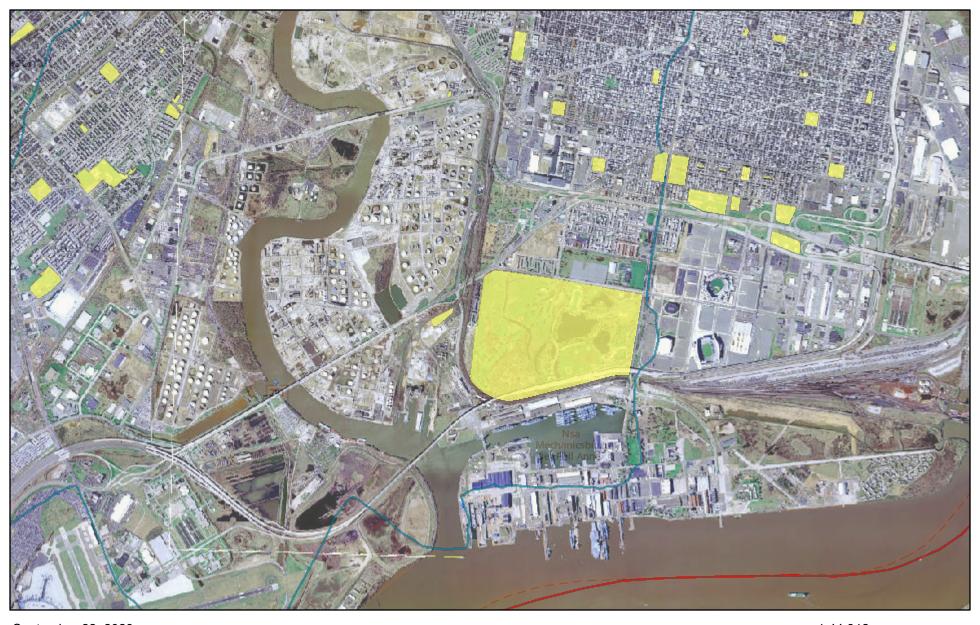


Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

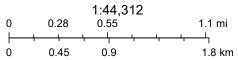
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For additional information about the Pennsylvania Natural Heritage Program, visit the website at www.naturalheritage.state.pa.us or you can email your questions and comments to RA-HeritageReview@pa.gov.

PA DCNR PNHP Map







Pennsylvania Game Commission, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen,